LIGHT

DANESE
MILANO

environmental innovation

LIGHT

DANESE
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Artemide® GROUP

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DANESE: ENVIRONMENTAL INNOVATION

Danese propone oggi le nuove collezioni Light e Space Design Environmental Innovation che interpretano in chiave contemporanea i valori del suo dna storico.
Dal 1957, anno della sua nascita, Danese prende come riferimento l'uomo e i suoi bisogni e si configura come luogo di sperimentazione da cui nascono risposte elementari ai bisogni di una società e di un contesto in evoluzione: figure che hanno fatto la storia del design italiano come Bruno Munari ed Enzo Mari sviluppano così prodotti innovativi, interpretazioni attuali e senza tempo degli oggetti di uso quotidiano.
I nuovi prodotti ne riprendono la cultura del progetto rispettandone i valori ancora oggi attuali: la semplificazione come ricerca dell'essenziale, l'intelligenza delle soluzioni offerte, l'attenzione a una qualità ambientale sensoriale e percettiva, la sostenibilità, la lunga durata semantica e materica.
Grazie alla condivisione di valori e allo scambio culturale con un team di designer internazionali Danese propone una nuova generazione di prodotti che consentono una diversa visione degli spazi, creano scenari aperti che superano qualsiasi standardizzazione e invitano a intervenire consapevolmente nella definizione del proprio ambiente.
L'ampliamento della collezione Danese permette di ricostruire una qualità ambientale a 360° attraverso un'offerta completa e trasversale di luce, complementi e sistemi d'arredo adatta in ogni tipo di spazio – dall' aitazione all'ufficio all'ambiente pubblico – per modificare e qualificare la fruizione e la vivibilità dei luoghi, con soluzioni flessibili e personali.
Danese da sempre adotta un codice linguistico elementare ma riconoscibile dove la sottrazione e la semplicità si traducono in un'espressività frutto di intelligenza progettuale e non di formalismi.
Prodotti dai contenuti profondi dimostrano come anche nel minimo ci può essere un alto valore aggiunto: la sottrazione e la semplicità producono innovazione qualitativa e non si traducono in assenza ma soddisfano pienamente il bisogno continuo di emozioni, di relazione con l'oggetto e la luce.
Danese unisce quindi la qualità del design alla qualità ecosostenibile del progetto attraverso scelte consapevoli delle implicazioni produttive, logistiche ed energetiche lungo tutto il ciclo di vita del prodotto.
Danese si fa esplicito portavoce di tematiche riguardanti le responsabilità ambientali della società contemporanea ponendosi in una prospettiva di rispetto del pianeta e riconoscendo l'importanza del contributo del singolo.
Con Danese Light e Space Design il vivere contemporaneo acquisisce nuove possibilità linguistiche ed insieme si confronta con le riflessioni positive di una progettualità consapevole, che apre nuovi significati al mondo del design.

Danese introduces its new collection "Light and Space Design Environmental Innovation". It interprets the values of its historical DNA in a contemporary way.
Since its inception in 1957, Danese's consideration of man and his needs have been primary. Danese has also been a hub for experiments that have generated basic responses to the needs of society and its evolution. Designers such as Bruno Munari and Enzo Mari have been making Italian design history by developing innovative products that are contemporary and timeless interpretations of objects for every day use.
The new products represent the culture of respecting values that are still modern: simplification as research of what is essential, applied intelligence for convenient solutions, attention given to achieve quality surroundings that appeal to the senses and perceptions and sustainability of materials and semantics.
Through value sharing and cultural exchange, Danese offers, with a team of international designers, a new generation of products that allows a different perspective of spaces, creates open sceneries that go beyond any standardization and invites the user to consciously take part in his environment.
The widening of Danese's collection provides a complete and transversal offer of lights, accessories and furnishing systems that allows the user to totally renovate an environment. The collection embraces lighting options, complements furnishing and offers solutions that are versatile and can be tailor-made for the user so that he is in a position to modify and qualify the environments where he lives or works.
Danese has always adopted a linguistic code that is basic but recognizable on the principle that subtraction and simplicity translate into intelligent expressionistic design and not formalism.
Products demonstrate how you can find deepness, richness and value in bare minimum expressions and be fully satisfied by your relationship with the object and the light. Danese therefore unites the principles of quality design and eco-sustainability and makes conscious choices concerning productive, logistical and energetic processes throughout the whole life cycle of the product.
Danese is involved in all those issues concerning modern society's environmental responsibilities, respecting the planet and acknowledging the importance of the contribution of any single human being.
With Danese Light and Space Design, modern life acquires new expressive opportunities and utilizes a conscious and positive approach that introduces new meanings into the design world.

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Danese propose aujourd'hui les nouvelles collections Light et Space Design Environmental Innovation qui interprètent dans une optique contemporaine les valeurs de son identité historique. Depuis 1957, son année de naissance, Danese se situe par rapport à l' homme et à ses besoins et se propose comme lieu d'expérimentation où sont formulées des réponses élémentaires aux besoins d'une société et d' un contexte en évolution: des personnalités qui ont fait l' histoire du design italien telles que Bruno Munari et Enzo Mari développent ainsi des produits innovants, des interprétations à la fois actuelles et hors du temps des objets à usage quotidien. Les nouveaux produits sont nourris de cette culture de projet et en respectent les valeurs toujours actuelles: la simplification comme quête de l' essentiel, l' intelligence des solutions proposées, l' attention accordée à une qualité ambiante sensorielle et perceptive, la durabilité et la longue durée sémantique et matérique.

Grâce au partage de valeurs et à l' échange culturel avec une équipe de designers internationaux, Danese propose une nouvelle génération de produits qui permettent d'envisager l' espace d'une manière différente, qui créent des contextes ouverts qui vont au-delà de toute standardisation et qui invitent à intervenir en toute connaissance de cause dans la définition de son propre espace.

l'extension de la collection Danese permet de reconstruire une qualité de l' evironnement à 360° à travers une offre à la fois complète et transversale de lumière, de compléments et de systèmes d'ameublement adaptés à tout type d'espace – de la maison aux bureaux et aux espaces publics – pour modifier et qualifier l' utilisation et le confort des lieux, par le biais de solutions à la fois souples et personnelles.

Danese adopte depuis toujours un code linguistique, élémentaire mais en même temps reconnaissable, dont les qualités de dépouillement et de simplicité se traduisent par une expressivité issue d'une intelligence conceptuelle et non de purs formalismes.

Produits issus aux contenus profonds, qui démontrent que même au minimum une haute valeur ajoutée peut être présente: le dépouillement et la simplicité produisent de l' innovation qualitative et ne se traduisent pas en absence, mais satisfont pleinement le besoin constant d'émotions, de relation avec l' objet et avec la lumière.

Danese allie ainsi la qualité du design à la qualité du développement durable du projet à travers le choix conscient des implications en termes de production, de logistiques et d'énergie pendant tout le cycle de vie du produit. Danese se fait le porte-parole de questions qui portent sur les responsabilités en matière d'environnement de la société contemporaine, dans une optique de respect de la planète et d'importance soulignée de la contribution de chacun.

Avec Danese, Light et Space Design, la vie contemporaine acquiert de nouvelles possibilités linguistiques et, parallèlement se mesure aux réflexions positives d'une créativité conceptuelle consciente, qui déploie de nouvelles significations dans le monde du design.

Danese bietet heute die neuen Kollektionen Light and Space Design Environmental Innovation an, welche in zeitgenössischer Weise die Werte seines historischen DNA auslegen. Seit 1957, dem Gründungsjahr, nimmt Danese den Menschen und seine Bedürfnisse als Bezugspunkt und gestaltet sich als Ort des Experimentierens, wo einfache Antworten auf die Bedürfnisse einer Gesellschaft und eines Kontextes hervorgebracht werden, die sich fortlaufend weiter entwickeln: Persönlichkeiten, die die Geschichte des italienischen Designs prägten, wie Bruno Munari und Enzo Mari, entwickelten auf diese Art innovative Produkte, aktuelle und zeitlose Interpretationen von Gegenständen für den täglichen Gebrauch. Die neuen Produkte übernehmen deren Projektkultur und halten sich an die Werte, die heute noch aktuell sind: die Vereinfachung als Suche nach dem Wesentlichen, die Intelligenz der angebotenen Lösungen, die Beachtung der Qualität in Bezug auf Umwelt, was die sinnliche und materielle Wahrnehmung anbelangt, die Vertretbarkeit, die lange semantische und materielle Dauer. Dank der gemeinsamen Werte und des kulturellen Austausches eines internationalen Designer-Teams bringt Danese eine neue Produktgeneration auf den Markt, die eine neue Vision des Raumes ermöglicht. Diese Produkte schaffen offene Szenarien, die jegliche Standardisierung überwinden, und laden ein, bewusst das eigene Ambiente zu definieren. Die Erweiterung der Danese-Kollektion ermöglicht es, durch ein komplettes und übergreifendes Angebot an Beleuchtungskörpern, Einrichtungsgegenständen und -systemen in jedem Raum– vom Wohnbereich über das Büro bis hin zum öffentlichen Ambiente – die Raumqualität rundum neu zu gestalten. Somit wird die Benutzung und Lebensqualität der Räume mit flexiblen und persönlichen Lösungen verändert und mit neuen Werten versehen.

Seit jeher verwendet Danese einen einfachen, jedoch gut erkennbaren Sprachkodex, in dem sich der Ausschluss von Überflüssigem und die Einfachheit an sich in einer Ausdruckskraft zeigen, die das Ergebnis von Planungsintelligenz und nicht von formaler Strenge ist. Produkte mit tiefsinnigem Inhalt, zeigen, dass auch im Minimalen ein hoher Mehrwert vorhanden sein kann: der Blick auf das Essentielle und die Einfachheit bringen eine qualitative Innovation hervor und drücken sich nicht als Mangel aus, sondern befriedigen in vollem Ausmaß den konstanten Bedarf nach Empfindungen, nach der Beziehung zum Gegenstand und zum Licht. Danese verbindet daher die Qualität des Designs mit der ökologisch vertretbaren Qualität des Projektes, und zwar indem für den gesamten Lebenszyklus des Produktes bewusst die möglichen produktiven, logistischen und energetischen Folgen bedacht werden.

Danese erklärt sich zum ausdrücklichen Sprecher für Themen, die sich auf die Verantwortlichkeit der zeitgenössischen Gesellschaft zur Umwelt beziehen, und erweist unserem Planeten den gebührenden Respekt, indem es erkennt, wie wichtig der Beitrag jedes Einzelnen ist.

Mit Danese Light and Space Design erwirbt die zeitgenössische Lebensweise neue linguistische Möglichkeiten und setzt sich zugleich mit den positiven Reflexionen eines bewussten Projektcharakters auseinander, welcher der Welt des Designs eine neue Bedeutung vermittelt.

Giulio Iacchetti

Asif Kahn

Ross Lovegrove

Paola Monaco di Arianello

Bruno Munari

Studio 63

Alberto Zecchini

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158 / 160

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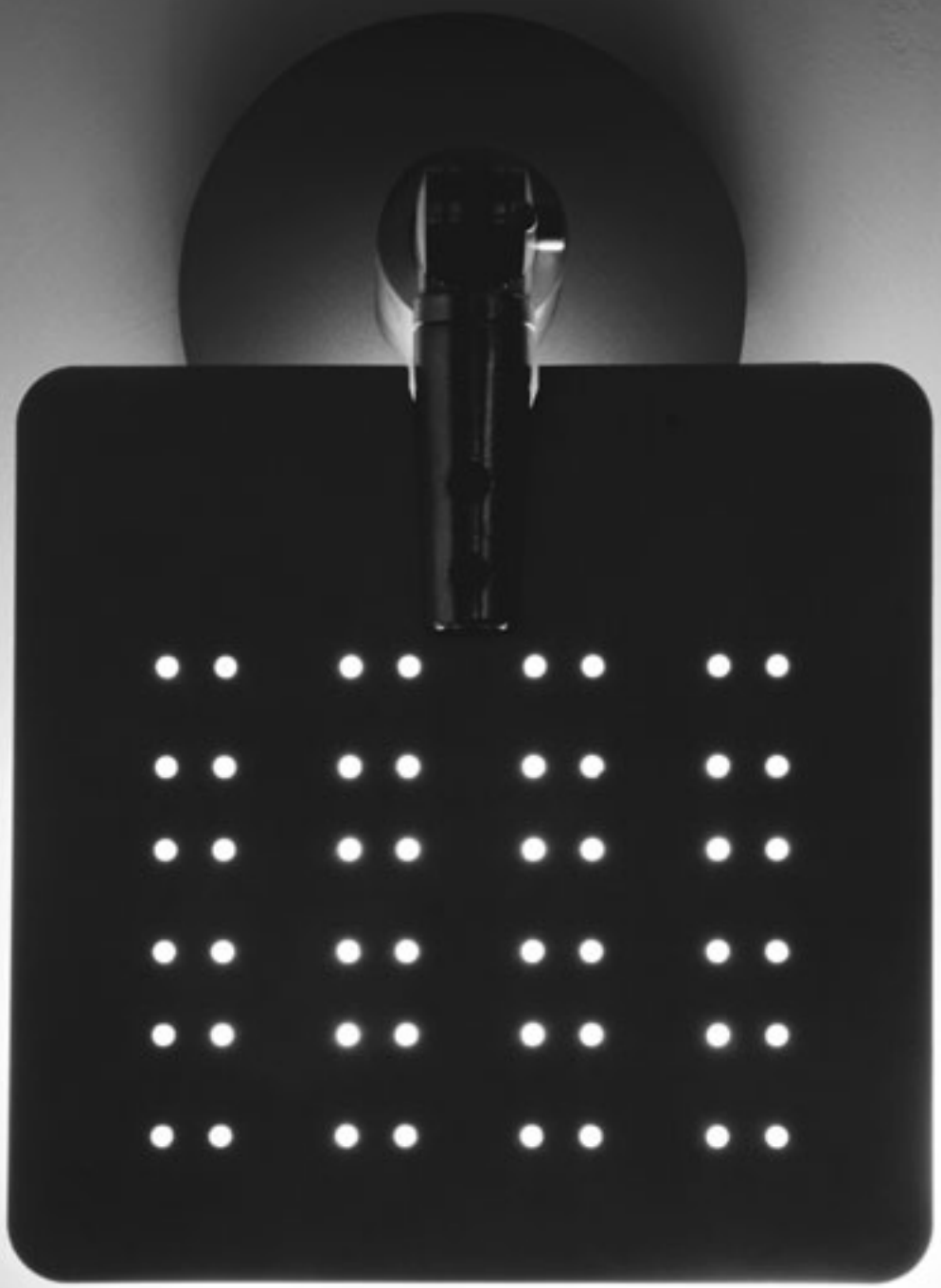
DANESE **PROFESSIONAL**

UNA PRO *Carlotta de Bevilacqua 2010*



La famiglia UNA PRO - UNA PRO 75 - UNA PRO 150 - UNA PRO SPOT costituisce una piattaforma progettuale che accoglie singoli elementi e sistemi che combinandosi rendono possibile un nuovo modo di pensare la luce.
Questo progetto definisce un abaco non solo di prodotti ma di luce studiata a partire dal rapporto con l'uomo e con lo spazio in cui essa viene messa in scena.
Molteplici e flessibili perfomance assicurano la risposta alle diverse esigenze, sia in termini spaziali che in termini di prestazioni luminose, adattandosi a tutte le esigenze del privato e del pubblico, in interni ed esterni.
L'intera famiglia di prodotti è frutto di una ricerca sperimentale riconosciuta da brevetti, sintesi non solo di innovazione tecnologica ma anche di un nuovo modo di vedere la luce, di rispondere alle esigenze contemporanee interpretando le nuove possibilità offerte dalle sorgenti led.
Si realizza così un cambio di paradigma nel rapporto con l'uomo e l'ambiente: una luce buona che si tocca, crea consapevolezza permettendo di dosarne le performance in modo più diretto, dai bassissimi consumi elettrici, composta da materiali riciclati e riciclabili, formalmente ridotti al minimo necessario e resistenti nel tempo.

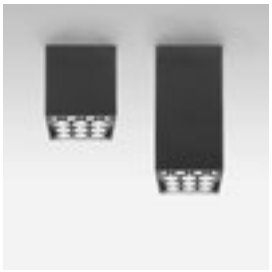
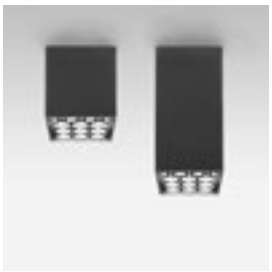
The UNA PRO - UNA PRO 75 - UNA PRO 150 - UNA PRO SPOT is a design platform where single elements and systems unite and make it possible to think about light in a new way.
This project defines a range not only of products but of light, which is studied from the viewpoint of its relation with man and the space where it is staged.
Multiple and flexible types of light output performance ensure a correct answer to different needs, in both spatial and luminous performance terms, adapting to any private or public need, both indoor and outdoor.
The whole product family is the result of patent-awarded experimental researches, a synthesis of technological innovation and of a new way of interpreting light and meeting contemporary needs, interpreting the new chances offered by LED based sources.
This is how a paradigm change occurs in the relationship with man and environment: a good, touchable light that creates awareness and permits a more direct dosing of the performance, with very low electrical consumption and consisting of recycled and recyclable materials formally reduced to a minimum and granting high durability.

La famille UNA PRO - UNA PRO 75 - - UNA PRO 150 - UNA PRO SPOT constitue une plate-forme de projet rassemblant des éléments individuels et systèmes qui, en s'associant, offrent une nouvelle manière de concevoir la lumière. Ce projet représente un aboutissement pas seulement de produits mais de lumière, étudiée à partir du rapport avec l'homme et avec l'espace dans lequel elle est mise en scène.
Des performances multiples et souples, en mesure de répondre à toutes les exigences, aussi bien en termes d'espaces que d'apport de lumière, s'adaptant aux besoins des espaces privés et publics, intérieurs et extérieurs. Cette famille de produits est le fruit d'une recherche expérimentale brevetée, synthèse non seulement de l'innovation technologique mais aussi d'une nouvelle manière de voir la lumière, de répondre aux exigences modernes en interprétant les nouvelles possibilités offertes par les sources leds.
Un changement de paradigme dans le rapport qui unit l'homme et l'environnement s'accomplit : une bonne lumière que l'on peut toucher crée une conscience permettant d'en doser les performances de façon plus directe, avec des consommations en électricité très réduites et des matériaux recyclés et recyclables, formellement limités au strict minimum et résistants dans le temps.

Die Produktfamilie UNA PRO - UNA PRO 75 - UNA PRO 150 - UNA PRO SPOT stellt eine Entwurfsplattform dar, die einzelne Elemente und Systeme aufnimmt und verbindet und somit eine neue Idee des Lichts ermöglicht.
Dieses Projekt definiert einen Abakus, der nicht nur aus Produkten, sondern auch aus Licht besteht. Dieser Abakus wurde seit dem Beginn des Verhältnisses zwischen Mensch und Raum, indem das Licht in Szene gesetzt wird, studiert. Zahlreiche und flexible Leistungen garantieren für eine Lösung für verschiedene räumliche oder lichtleistungstechnische Bedürfnisse, da sie an alle Anforderungen im Innen- und Außenbereich des Wohnraums und in öffentlichen Einrichtungen anpassbar ist.
Die gesamte Produktfamilie ist das Ergebnis einer durch Patente belegten experimentellen Forschung, eine Synthese von technologischer Innovation und einer neuen Art des Lichts, durch neue Möglichkeiten der LED-Lichtquellen, auf moderne Bedürfnisse einzugehen.
Es entsteht dadurch ein Paradigmawechsel im Verhältnis zwischen Mensch und Umwelt: ein gutes, berührbares Licht, das durch die direkte Dosierung der Leistung Bewusstsein schafft, einen sehr niedrigen Stromverbrauch ermöglicht, aus altem und erneuerbarem Material besteht, wenig Platz bedarf und resistent ist.

UNA PRO FAMILY *Carlotta de Bevilacqua*

	UNA PRO		UNA PRO 75 ADJUSTABLE	
CEILING, WALL				
IP				
SEMI RECESSED RECESSED				
TRACK SUSPENSION				
RGB RWB				
FLOOR				

UNA PRO 75	UNA PRO 150		UNA PRO SPOT
			
			

UNA PRO
PATENT OF INVENTION N° MI2010A000185

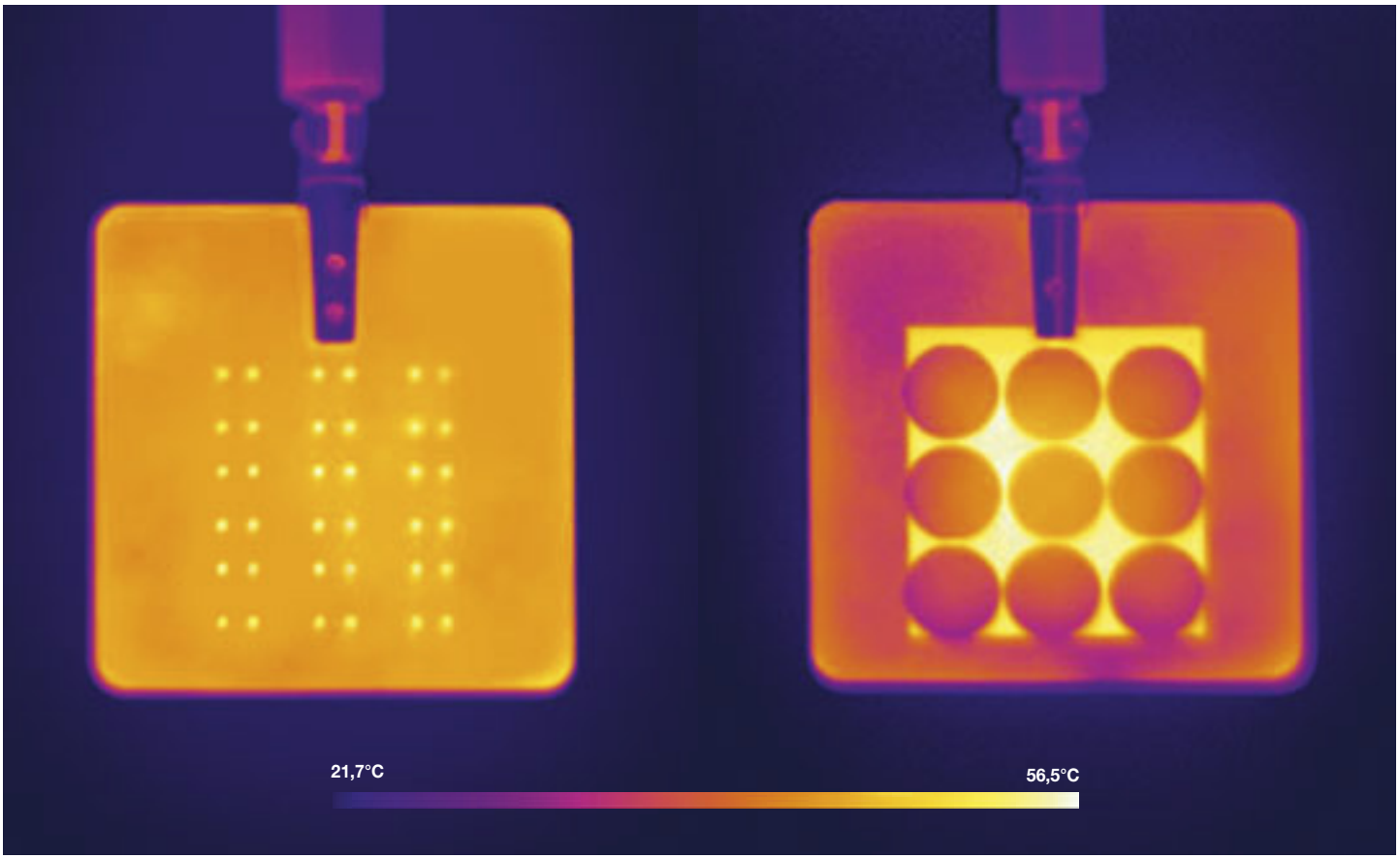
Apparecchio di illuminazione a LED ad alta potenza applicati su lastra piana a spessore ridotto con dissipazione termica migliorata

Light fixture with power LED on low thickness sheet with improved thermal dissipation

Appareil d'éclairage à LED à haute puissance appliquées sur une plaque d'épaisseur réduite avec dissipation thermique améliorée

Beleuchtungsgerät mit Hochleistungsleds auf flacher, schmaler Platte mit verbesserter Wärmeableitung

THERMAL VIA



Grazie alla distribuzione della potenza elettrica su 4,9,12,16 sorgenti luminose LED è possibile impiegare una semplice piastra in alluminio di soli 3mm di spessore per ottenere un'ottima dissipazione termica (brevetto di invenzione n MI2010A000185). Questo garantisce ottime performance nel tempo del LED e permette di toccare il corpo luminoso in qualsiasi momento per orientarlo nello spazio creando una nuova relazione con la luce.

Grâce à la distribution de la puissance électrique sur 4, 9, 12 ou 16 sources lumineuses à LED, on peut utiliser une simple plaque en aluminium de 3 mm d'épaisseur pour obtenir une très bonne dissipation thermique (brevet d'invention n° MI2010A000185). Cela garantit des performances optimales des LED au cours du temps et on peut saisir le corps lumineux à n'importe quel moment pour l'orienter dans l'espace afin de créer une nouvelle relation avec la lumière.

Thanks to the power distribution over 4,9,12,16 LED light sources, the use of a simple 3mm-thick aluminium plate is sufficient to obtain excellent heat dissipation (invention patent no. MI2010A000185). This device ensures outstanding LED performance over time and allows touching the luminaire at any time in order to direct it in space, thus creating a new relationship with light.

Durch die Stromverteilung auf 4, 9, 12 oder 16 LED-Lichtquellen kann für eine ausgezeichnete Wärmeverlustleistung (Erfindungspatent Nr. MI2010A000185) eine einfache, nur 3 mm dicke Aluplatte verwendet werden. Dies garantiert für eine lange optimale LED-Leistung und ermöglicht jederzeit die Berührung des Leuchtkörpers zur Ausrichtung und für ein neues Lichtverhältnis im Raum.

3 MM THICKNESS
SCALA1:1
21,7°C
56,5°C

UNA PRO RWB
PATENT PENDING N° MI2010A000657

Apparecchio di illuminazione con sorgenti RWB ad emissione variabile gestibile per garantire la funzionalità di illuminamenti adeguati, il benessere psicofisico dell'uomo e la crescita delle piante.

Una RWB è un nuovo modo di interpretare la luce colorata, è attenta al benessere psicofisico dell'uomo ma anche all'ambiente, allo sviluppo delle piante e non solo alla messa in scena della natura. È un cambio di paradigma che si inserisce in un più generale percorso di attenzione all'ambiente sviluppato da Danese. Una RWB concretizza i risultati brevettati di ricerche tecnologico-sperimentali: è una luce dai bassissimi consumi, che non scalda, aiuta la crescita delle piante favorendo i processi fotobiologici, può creare effetti scenografici e d'atmosfera o garantire un'illuminazione bianca funzionale.
I led rossi, blu e bianchi sono gestibili e dimmerabili separatamente così da adeguarsi con la massima flessibilità alle esigenze dell'uomo e poter seguire nel migliore dei modi lo sviluppo della pianta calibrando le emissioni sui valori di PPFD (Photosynthetic Photon Flux Density) necessario alla fotosintesi clorofilliana nelle diverse fasi della crescita delle piante.

Light fixture with variable emission RWB led to guarantee functional needs, cares for the psycho physical well-being and the growth of plants.

RWB is a new way of interpreting the coloured light. It does not only limit to represent the nature, but actually cares for the psycho physical well-being of persons, as well as for the environment and the growth of plants.
a change in the approach that is part of Danese wider process of increasing attention to the environment. RWB is the realization of the patented results of technologic-experimental researches: it is a lamp with extremely low consumption, which does not heat up and helps plant growth by favouring the photobiological processes, besides creating ambience and stage effects or guaranteeing functional white lighting.
Red, blue and white LEDs can be controlled and dimmered separately, so to meet all people needs with maximum flexibility and to best follow plant growth adjusting light emission to the PPFD (Photosynthetic Photon Flux Density) values necessary for photosynthesis during the various stages of plant growth.

FEEDING THE MIND

600 - 780 nm RED

Mind: relaxing and anti-stress effect.

3500 - 2800 K WARM WHITE

Warm colour temperature: atmosphere of relax and rest, with simple visual tasks.

400 - 520 nm BLU

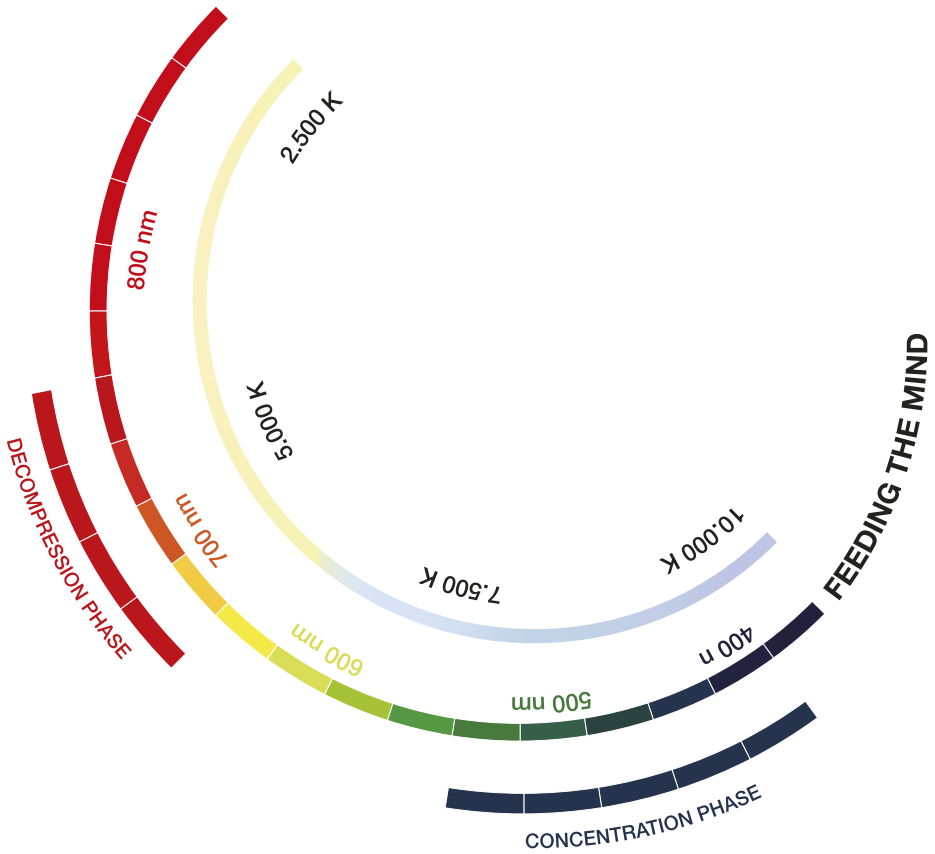
Mind: increase in attention and productivity levels, it favours meditation and creativity.

5000 - 3700 K NEUTRAL WHITE

Neutral colour temperature: increase in the photometric values required for more complex visual tasks

10000 - 5000 K COOL WHITE

Cold colour temperature: increase in attention and concentration.



Appareil d'éclairage avec sources RWB à émission variable pouvant être gérées pour assurer la fonctionnalité d'éclairages appropriés, le bien-être psychophysique de l'homme et la croissance des plantes.

Una RWB représente une nouvelle manière d'interpréter la lumière colorée, elle prête attention au bien-être psychophysique de l'homme mais aussi de l'environnement, de la croissance des plantes et pas seulement à la mise en scène de la nature.
Il s'agit d'un changement de paradigme qui s'inscrit au sein d'un parcours plus général d'attention pour l'environnement développé par Danese. Una RWB concrétise les résultats brevetés de recherches technologiques et expérimentales : c'est une lumière à très faible consommation qui ne chauffe pas, contribue à la croissance des plantes favorisant les procédés photobiologiques, pouvant créer des effets scénographiques et d'ambiance ou offrir une lumière blanche fonctionnelle.
Les leds rouges, bleues et blanches peuvent être gérées et réglées séparément de façon à s'adapter avec souplesse aux exigences de l'homme et pouvoir suivre de la meilleure des manières le développement de la plante, adaptant les émissions selon les valeurs de PPFD (Photosynthetic Photon Flux Density) nécessaire à la photosynthèse chlorophyllienne au cours des différentes étapes de la croissance des plantes.

Beleuchtungsgerät mit RWB-Lichtquelle mit steuerbarer, variabler Emission, wodurch die angemessene Beleuchtung, das psychophysische Wohlbefinden des Menschen und das Wachstum der Pflanzen gewährleistet werden soll.

Una RWB ist ein neuer Weg der Interpretation farbigen Lichts. Es sorgt für das psychophysische Wohlbefinden des Menschen und der Umwelt, für das Wachstum von Pflanzen und nicht nur für die Inszenierung der Natur.
Es ist ein Paradigmawechsel, der sich in einen allgemeineren Aufmerksamkeitsweg in der von Danese geplanten Umgebung einfügt. Una RWB verwirklicht die patentierten Ergebnisse von technologisch-experimentellen Forschungen: Es ist ein Licht mit sehr niedrigem Verbrauch, das sich nicht erwärmt, das Pflanzenwachstum durch die Förderung der photobiologischen Prozesse steigert, wirkungsvolle Effekte schafft oder für eine funktionale weiße Beleuchtung garantiert.
Die roten, blauen und weißen LEDs sind separat steuer- und dimmerbar. Sie garantieren somit für die größtmögliche Flexibilität bei der Anpassung an die Bedürfnisse des Menschen und für ein ausgezeichnetes Pflanzenwachstum, denn sie kalibrieren die Emissionen nach den PPFD-Werten, die für die Photosynthese des Chlorophylls in den verschiedenen Wachstumsphasen der Pflanzen erforderlich sind.

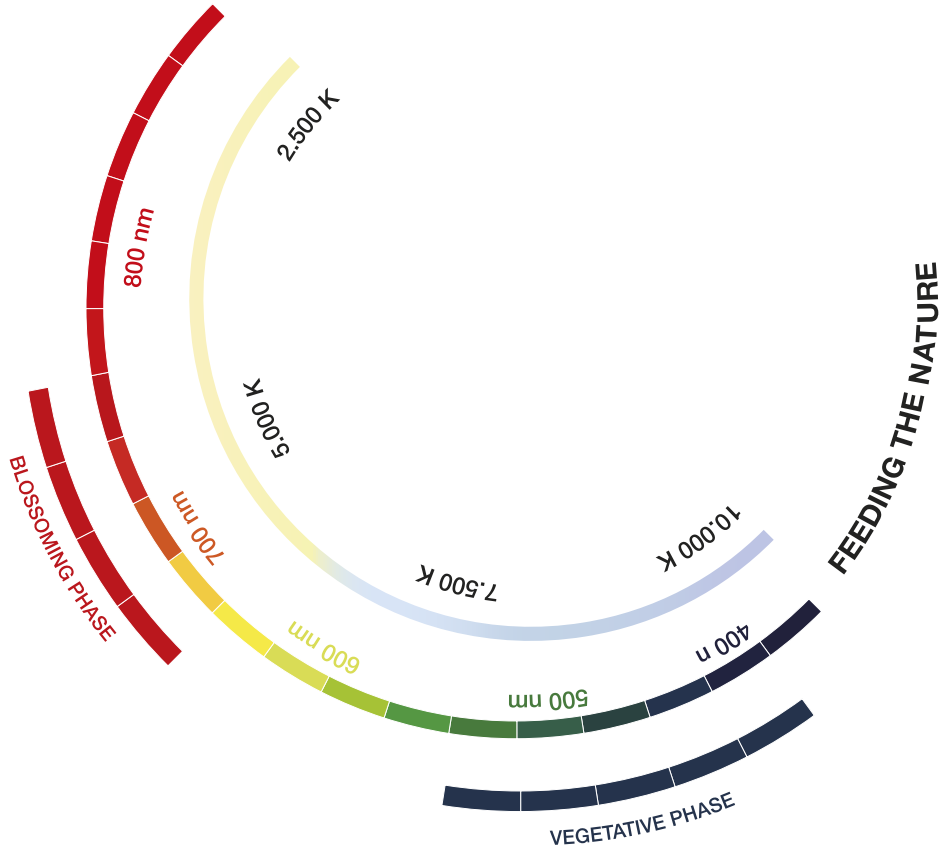
FEEDING THE NATURE

600 - 780 nm RED

Nature: it influences plant photosynthesis by favouring blooming.

400 - 520 nm BLU

Nature: it helps chlorophyll absorption supporting plant vegetative stage.



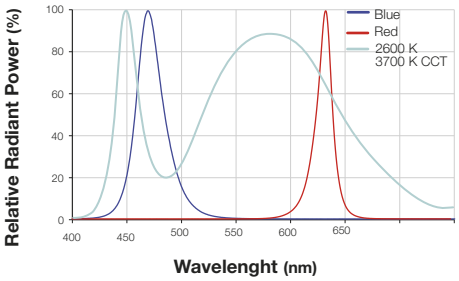
UNA PRO RWB
PATENT PENDING N° MI2010A000657

RWB RED

RWB WHITE

RWB BLUE

SPECTRAL DIAGRAM



UNA PRO

RED 4x0,88W TOT PLED 3,5W 64 Lm/W
wavelenght 625nm

WHITE 6x1W TOT PLED 6W 100 Lm/W
CCT 3000K Ra85

BLU 2x1,4W TOT PLED 2,8W 21,5 Lm/W
wavelenght 450nm

UNA PRO 75

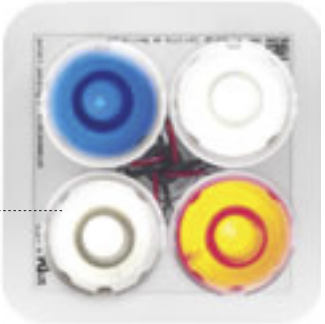
RED 1x0,88W TOT PLED 0,88W 64 Lm/W
wavelenght 625nm

WHITE 2x1W TOT PLED 2W 100 Lm/W
CCT 3000K Ra85

BLU 1x1,4W TOT PLED 1,4W 21,5 Lm/W
wavelenght 450nm

UNA PRO
4 RED
2 BLU
6 WHITE

UNA PRO 75
1 RED
1 BLU
2 WHITE



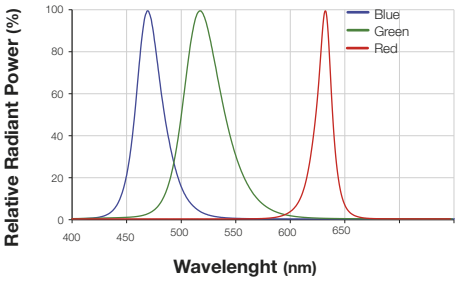
UNA PRO RGB

RGB RED

RGB GREEN

RGB BLUE

SPECTRAL DIAGRAM



UNA PRO

RED 4x0,88W TOT PLED 3,5W 64 Lm/W
wavelenght 625nm

GREEN 6x1,4W TOT PLED 8,4W 100 Lm/W
wavelenght 535nm

BLU 2x1,4W TOT PLED 2,8W 21,5 Lm/W
wavelenght 450nm

UNA PRO 75

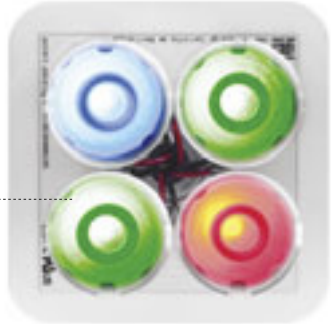
RED 1x0,88W TOT PLED 0,88W 64 Lm/W
wavelenght 625nm

GREEN 2x1,4W TOT PLED 2,8W 100 Lm/W
wavelenght 535nm

BLU 1x1,4W TOT PLED 1,4W 21,5 Lm/W
wavelenght 450nm

UNA PRO
4 RED
2 BLU
6 GREEN

UNA PRO 75
1 RED
1 BLU
2 GREEN



UNA PRO COLOUR AND COLOUR TEMPERATURE CONTROL

EASY REMOTE CONTROL

IR remote control
separate management of the three channels

UNA PRO DALI AND DMX SETTING

Dali or DMX
RWB: white tunable system with preset color temperatures from 2700 to 6500 K or separate management of the three channels
RGB: system whit preset color scenery or separate management of the three channels

WHITE	6x1W	TOT PLED 6W	100 Lm/W	CCT 3000K Ra85
RED	4x0,88W	TOT PLED 3,5W	64 Lm/W	wavelenght 625nm
BLU	2x1,4W	TOT PLED 2,8W	21,5 Lm/W	wavelenght 450nm

100% = 350 mA
R optic = 87%

Power (W)	8,5 W	8 W	7 W	6,5 W	6,5 W	6,5 W	7 W
Lamp flux (Lm)	653 Lm	638 Lm	624 Lm	608 Lm	622 Lm	631 Lm	652 Lm
R					10%	14%	23%
W	100%	100%	100%	100%	100%	100%	100%
B	88,5%	63%	40%	14%			
CCT (K)	10000K	6500K	5000K	3750K	3000K	2700K	2400K
	COOL			NEUTRAL			WARM

UNA PRO 75 DALI AND DMX SETTING

Dali or DMX
RWB: white tunable system whit preset color temperatures from 2700 to 6500 K or separate management of the three channels
RGB: system whit preset color scenery or separate management of the three channels

WHITE	2x1W	TOT PLED 2W	100 Lm/W	CCT 3000K Ra85
RED	1x0,88W	TOT PLED 0,88W	64 Lm/W	wavelenght 625nm
BLU	1x1,4W	TOT PLED 1,4W	21,5 Lm/W	wavelenght 450nm

100% = 500 mA
R optic = 87%

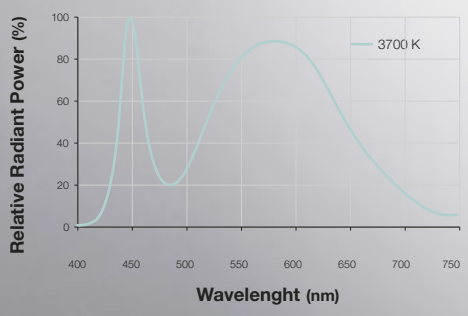
Power (W)	3,5 W	3 W	3 W	2,5 W	2 W	2 W	2 W
lamp flux (Lm)	228 Lm	221 Lm	215 Lm	205 Lm	205 Lm	206 Lm	209 Lm
R					8%	10%	15%
W	100%	100%	100%	100%	100%	100%	100%
B	93%	70%	50%	18%			
CCT (K)	10000K	6500K	5000K	3750K	3000K	2700K	2400K
	COOL			NEUTRAL			WARM

UNA PRO CCT NEUTRAL WHITE 3700K / CRI (Ra) 80

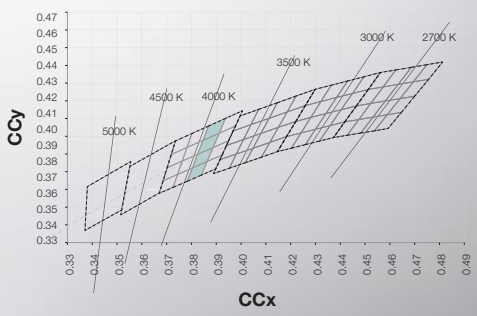
La specifica selezione dei BIN all'interno delle temperature di colore dichiarate garantisce costanza di temperatura di colore dei led forniti sia all'interno del lotto di produzione che nel tempo evitando differenze visibili anche ad occhio nudo.

The particular selection of BIN in the stated color temperatures guarantiees a steady color temperature in the supplied LED, in the same production batch and also in time, avoiding such differences that can be also visible to the naked eye.

SPECTRAL DIAGRAM



COLOUR BIN

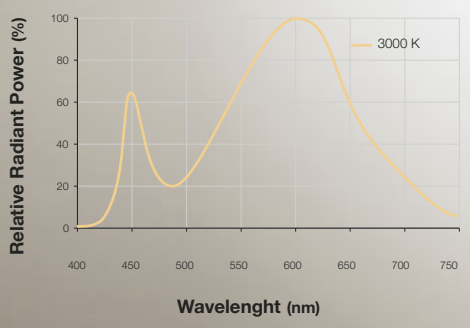


UNA PRO CCT WARM WHITE 3000K / CRI (Ra) 85

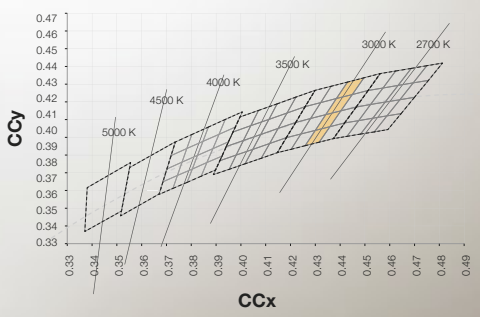
La sélection spécifique des BIN dans les températures de couleur déclarées garantit une température de couleur stable de LED fournis, soit dans le même lot de production soit dans le temps, en évitant les différences qui peuvent être également visible à l'œil nu.

Die genaue Auswahl von BIN in den angegebenen Farbtemperaturen garantiert eine dauerhafte Farbtemperatur der gelieferten LED, in der gleichen Produktion und auch in Zeitverlauf. Das ermöglicht solche Unterschiedenen zu vermeiden, die auch mit bloßem Auge sichtbar sein können.

SPECTRAL DIAGRAM



COLOUR BIN



UNA PRO LEED

CERTIFICAZIONE LEED

Le caratteristiche tecniche di UNA PRO rappresentano una scelta ideale quando si voglia perseguire una certificazione LEED, infatti, a seguito dell'analisi effettuata da esperti "LEED® Accredited Professional" sono stati ufficialmente riconosciuti alcuni requisiti fondamentali di ecosostenibilità, ovvero:
. Conservazione dell'energia
. Riduzione di emissioni (effetto serra) e inquinamento
. Utilizzo di materiale riciclato
. Incremento del valore nel tempo dell'edificio dove vengono introdotte

CREDITI CERTIFICAZIONE LEED®

. Siti Sostenibili (SS): 1 punto
. Energia e Atmosfera (EA): 1-19 punti e 1 prerequisito
. Materiali e Risorse (MR): 1- 4 punti
. Qualità Ambientale Interna (QI): 1 punto
. Innovazione nella Progettazione (IP): 1-5 punti

CERTIFICATION LEED

Les caractéristiques techniques d'UNA PRO représentent un choix idéal lorsque l'on souhaite obtenir une certification LEED, en effet, suite à l'analyse effectuée par des spécialistes "LEED® Accredited Professional" certaines exigences fondamentales en termes de durabilité écologique ont été officiellement reconnues, c'est-à-dire:
. Conservation de l'énergie
. Réduction des émissions (effet de serre) et pollution
. Utilisation de matériaux recyclés
. Augmentation, dans le temps, de la valeur de l'édifice où ces éléments sont introduits

CRÉDIT DE CERTIFICATION LEED®

. Sites Durables (SS) : 1 point
. Énergie et Atmosphère (EA) : 1-19 points et 1 condition nécessaire
. Matériaux et Ressources (MR) : 1- 4 points
. Qualité des Environnements Intérieurs (QI) : 1 point
. Conception et innovation (IP) : 1-5 points

LEED CERTIFICATION

The technical characteristics of UNA PRO are an ideal choice when you want to pursue a LEED certification, in fact, following the analysis carried out by "LEED® Accredited Professional" experts, some fundamental requirements of environmental sustainability have been officially recognized:
. Energy conservation
. Harmful greenhouse gas emissions reduction
. Use of Recycled materials
. Building asset value increase

LEED® CERTIFICATION'S CREDITS

. Sustainable sites (SS): 1 point
. Energy & Atomosphere (EA): 1-19 points and 1 prerequisite
. Materials and Resources (MR): 1- 4 points
. Indoor Environmental Quality (QI): 1 point
. Innovation in Design (IP): 1-5 points

LEED ZERTIFIZIERUNG

Die technischen Merkmale von UNA PRO sind die ideale Wahl, wenn man eine LEED Zertifizierung erhalten möchte. Nach einer von "LEED® Accredited Professional" Experten durchgeführten Analyse wurden einige wesentliche Anforderungen bezüglich der Nachhaltigkeit festgelegt, wie:
. Energieersparnis
. Reduzierung von Emissionen (Treibhauseffekt) und Umweltverschmutzung
. Verwendung von Recyclingmaterial
. Zukünftige Werterhöhung des Gebäudes, in denen die Leuchten montiert werden

KREDIT DER ZERTIFIZIERUNG LEED®

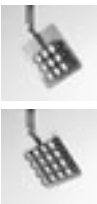
. Nachhaltige Standorte (NS): 1 Punkt
. Energie und Atmosphäre (EA): 1 - 19 Punkte und 1 Voranforderung
. Baustoffe und Ressourcen (BR): 1 - 4 Punkte
. Innenraum-Umweltqualität (IQ): 1 Punkt
Innovation und Planungsprozess (IP): 1 - 5 Punkte

GREEN QUALIFIED PRODUCTS
GREENTOR
contributes satisfying
credits under LEED

UNA PRO *Carlotta de Bevilacqua 2010*

UNA PRO OVERVIEW

wall / ceiling



. **9 LED** P_{TOT} 10W / **12 LED** P_{TOT} 13W / **16 LED** P_{TOT} 20W
. LENS **6°** / **20°** / **38°**

IP20

3700K Ra 80
not dimmable

OPTIONAL

3000K Ra 85
dimmable 1..10V+push, dali
with remote power supply

pag. **38**

semi-recessed

. **9 LED** P_{TOT} 10W / **12 LED** P_{TOT} 13W / **16 LED** P_{TOT} 20W
. LENS **6°** / **20°** / **38°**

IP20

3700K Ra 80
not dimmable

OPTIONAL

3000K Ra 85
dimmable 1..10V+push, dali

pag. **44**

track

. **9 LED** P_{TOT} 10W / **12 LED** P_{TOT} 13W / **16 LED** P_{TOT} 20W
. LENS **6°** / **20°** / **38°**

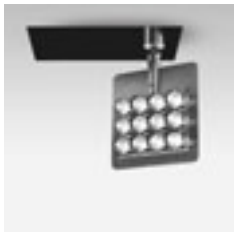
IP20

3700K Ra 80
not dimmable

OPTIONAL

3000K Ra 85
dimmable dali

pag. **48**



recessed

. **9 LED** P_{TOT} 10W / **12 LED** P_{TOT} 13W / **16 LED** P_{TOT} 20W
. LENS **6°** / **20°** / **38°**

IP20

3700K Ra 80
not dimmable

OPTIONAL

3000K Ra 85
dimmable 1..10V+push, dali

pag. **52**

IP65

. **9 LED** P_{LED} 9W
. LENS **6°** / **20°** / **38°**

IP65

OPTIONAL

3000K Ra 85
dimmable 1..10V+push, dali

pag. **42**

floor

. **9 LED** P_{LED} 9W
. LENS **6°** / **20°** / **38°**

IP20

3700K Ra 80
dimmable

OPTIONAL

3000K Ra 85

pag. **58**

RGB
RWB
wall / ceiling
semirecessed

. **12 LED** P_{LED} 14,5W
. LENS **38°**

IP20

OPTIONAL

pag. **56**

NOTE: the codes refer to the standard version equipped by neutral white LED 3700K and black holders.
To compose the complete code add the colour numbers in the spaces __ in the lamp code.

UNA PRO

UNA PRO mette in discussione l'idea, l'icona stessa del classico spot rivedendola alla luce delle innovazioni tecnologiche e riconsiderando l'immagine e gli elementi primari di un'intera tipologia di apparecchi di illuminazione attraverso una nuova visione che punta alla riduzione di consumi energetici e di materia, ma al tempo stesso di miglioramento della durata e delle qualità della luce.
Il risultato ottenuto grazie ad una rete di competenze e di ricerca sperimentale è un sistema di spot che offre la stessa risposta qualitativa dei precedenti con sorgente alogena ma li supera grazie ad un bilancio energetico nettamente migliore (circa l'80% di consumi in meno), ad un'apertura a un'interattività nuova offerta dalla possibilità di toccare la luce, muoverla ed interagire con essa, ad un rapporto con lo spazio rivoluzionato dalla flessibilità di performance che si accompagnano a una presenza praticamente inconsistente dell'apparecchio grazie ai soli 3 mm di spessore della piastra su cui sono montati i led.
UNA PRO nella sua estrema essenzialità e semplicità condensa una altissima innovazione tecnologica brevettata che consente di raggiungere con pochi led (9, 12 o 16) e quindi con consumi estremamente ridotti le performance luminose di un classico faretto alogeno AR111. Le teste possono montare led di diverse temperature di colore (neutral o warm white) per garantire la qualità della luce adatta ad ogni specifica applicazione composti in set da 9, 12 o 16 elementi per bilanciare al meglio prestazioni e consumi.

UNA PRO is the result of a new design approach. The objective was to obtain the same high performance of a halogen spotlight from a LED one, but at the same time the classic spotlight icon was brought up for discussion. Thanks to new significant technological innovation, the old concept had to be reinvented and so did the looks and main features of an entire category of luminaries. Important purposes were also energy and material saving and light duration.
Due to innovative research and a well-proven expertise, the spotlight system performance is the same as that of previous halogen systems but the overall performance achieved is much better. In fact, the energy consumption of these spotlights is low, the user's relationship with the environment is revolutionary, his interaction with it is free and creative. In addition the the light fixture appears thin due to the flat profile (only 3 mm).
UNA PRO is a basic and simple product but it sums up highly patented technological principles allowing, with only a few LEDs (9, 12 or 16) thus with very low energy consumption, the illuminating performance of an AR111 halogen spotlight.
The body can hold LEDs of different colours (cool, neutral or warm white) to ensure quality light adaptable to different scenarios; sets of 9, 12 or 16 elements assure a good synergy between performance and consumption.

UNA PRO met en discussion l'idée, l'icône elle-même du spot classique, en la repensant à la lumière des innovations technologiques et reconsidérant l'image et les éléments primaires d'un type d'appareils d'éclairage à travers un nouveau point de vue, qui vise à réduire les consommations d'énergie et de matériaux mais, en même temps, à prolonger la durée et améliorer la qualité de la lumière.
Le résultat, obtenu grâce à un réseau de compétences et de recherche expérimentale, est un système de spots offrant la même réponse, en termes de qualité, que les précédents, avec source halogène, mais qui les dépasse grâce à un bilan énergétique nettement meilleur (une consommation réduite de 80%), à l'accès à une nouvelle interactivité offert par la possibilité de toucher la lumière, la déplacer et interagir avec elle, à un rapport avec l'espace réinventé par la souplesse de la performance, s'accompagnant d'une présence pratiquement inconsistante de l'appareil, grâce à l'épaisseur minimale (3 mm seulement) de la plaque sur laquelle sont montées les leds.
Avec son caractère essentiel et sa grande simplicité, UNA PRO concentre une innovation technologique très avancée et brevetée qui permet d'atteindre, avec un nombre limité de leds (9, 12 ou 16) et donc des consommations extrêmement réduites, les performances, en termes d'éclairage, d'un spot halogène AR111 classique.

UNA PRO stellt die Idee, das Symbol selbst des klassischen Spots in Frage, überholt es anhand der technologischen Innovationen und überdenkt das Aussehen und die primären Elemente einer ganzen Typologie beleuchtungstechnischer Geräte nach einer neuen Vision, die eine Reduzierung des Energie- und Stoffverbrauchs anstrebt, aber gleichzeitig die Lebensdauer und Qualität des Lichts verbessert.
Das durch ein Netz von Fachmännern und experimenteller Forschung erzielt Ergebnis ist ein Spot-System, das dieselbe Qualität wie seine Vorgänger mit Halogenlichtquelle bietet, aber eine eindeutig bessere Energiebilanz (zirka 80% weniger Verbrauch) aufweist. Es eröffnet die Möglichkeit für eine neue Interaktivität - das Licht zum Anfassen, Bewegen und Interagieren – in einem Verhältnis mit dem durch die Flexibilität der Performance revolutionierten Raum und dem praktischen Nichtvorhandensein des Geräts durch die nur 3 mm dicke Platte, auf der die LEDs montiert sind.
Mit ihrer extremen Schlicht- und Einfachheit verbindet UNA PRO höchste technologische Innovation, die durch ein Patent geschützt wird. Dadurch kann das Gerät mit wenigen LEDs (9, 12 oder 16) und einem sehr geringem Energieverbrauch die Lichtleistungen eines klassischen Halogenstrahlers AR111 erzeugen.

9 LED - 9W

12 LED - 10,5 W

16 LED - 18 W

UNA PRO LENSES

Sulle differenti teste è possibile applicare tre diversi set di lenti TIR intercambiabili infinite volte in modo elementare, senza l'ausilio di nessuno strumento, anche ad installazione avvenuta che permettono di ottenere da un unico corpo lampada tre diverse emissioni di 6°, 20°, 38° con una precisione di controllo dell'apertura del fascio luminoso decisamente superiore rispetto ai tradizionali faretti alogeni (margine di scostamento di 1°-1,5°). La sinergia che si crea tra le componenti e la possibilità di combinazione dei diversi elementi permettono di ottenere prestazioni adatte a qualsiasi necessità ed una flessibilità di progettazione dell'atmosfera luminosa variabile anche dopo l'installazione assolutamente nuova. Le lenti TIR sono componenti ottici che, attraverso il principio della riflessione interna totale convogliano l'85% del flusso luminoso del LED sul compito visivo. Hanno la capacità di rendere non visibile la sorgente luminosa, in questo modo la luminanza della superficie emissiva, pur essendo superiore alle 3000 cd/m2 @ 65° è comunque di tipo "comfort".

Three different TIR lens sets are fitted on these LEDs: they can be easily exchanged every time you wish without the need for any instrument, even once the installation is complete, and they allow to obtain from a single lamp three different 6° 20° 38 ° light emissions, featuring a beam angle control precision absolutely improved compared to the traditional halogen downlights (1°-1,5° deviation).
The synergy existing between the components, the modularity of the various product versions and the possibility to combine the different elements makes it possible to achieve a performance that suits all needs and an absolutely unique luminous atmosphere design flexibility that allows variations even after installation. TIR lenses are optic components that convey 85% of the LED light beam onto the visual task by relying on the principle of total internal reflection. Their feature is to avoid visible light sources, thus providing comfortable light surface luminance, while being over 3,000 cd/m2 @ 65°.

Sur chaque tête il est possible d'appliquer trois différents sets de lentilles TIR interchangeables à l'infini et de façon très simple, sans qu'aucun outil ne soit nécessaire, même lorsque l'installation est achevée, permettant d'obtenir un corps de lampe unique avec trois émissions différentes, de 6°, 20° et 38°, et un contrôle précis de l'ouverture du faisceau lumineux nettement supérieure par rapport aux spots halogènes traditionnels (marge d'écartement de 1°-1,5°). La synergie qui se crée entre les différentes pièces et la possibilité d'associer différents éléments permettent d'obtenir des performances appropriées à tous les besoins et une souplesse dans la conception de l'atmosphère lumineuse, qui peut être modifiée même après l'installation à neuf. Les lentilles TIR sont des composants optiques qui, à travers le principe de la réflexion interne totale, dirigent 85% du flux lumineux de la LED sur la tâche visuelle. Elles ont la capacité de rendre invisible la source lumineuse ainsi, la luminance de la surface émissive, quoique que supérieure à 3000 cd/m2 @ 65°, assure le confort visuel.

Auf jeden Köpfer können drei verschiedene Linsen TIR angebracht, die auf einfache Weise auch nach der Montage ohne irgendwelche Hilfsmittel beliebige Male untereinander ausgetauscht werden können. Somit können mit einem einzigen Leuchtenkörper drei verschiedene Emissionen mit 6°, 20° und 38° und einer bei weitem höheren Öffnungspräzision des Lichtbündels als bei herkömmlichen Halogenstrahlern (Abweichungsmarge 1 - 1,5°) erzielt werden.
Durch die zwischen den Elementen entstandene Synergie und die Kombinationsmöglichkeit verschiedener Elemente werden Leistungen für jeden Bedarf und eine Entwurfsflexibilität der Lichtumgebung erzielt, die auch nach der völlig neuen Installation variierbar ist. Die Linsen TIR sind optische Komponenten, die durch das Prinzip der Gesamtinnenrückstrahlung 85 % des Lichtstroms des LEDS auf die visuelle Aufgabe leiten. Sie können die Lichtquelle unsichtbar machen. Obwohl die Luminanz der Emissionsfläche über 3000 cd/m2 @ 65° liegt, sorgt sie auf diese Weise immer für Sichtkomfort.

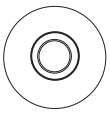
UNA PRO efficiency

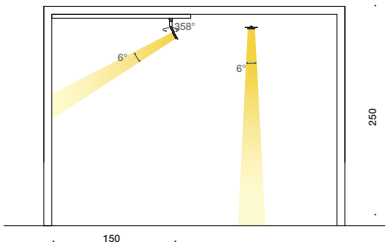
** data declared in producers catalogue

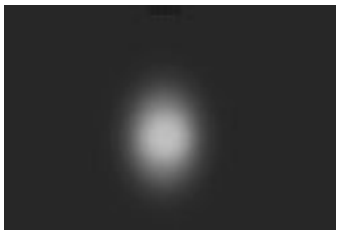
UNA PRO	LENS	η lamping Lm/W**	R	η lamp Lm/W
12 LED LED flux 1200 Lm Lamp flux 996 Lm P_{LED} 10,5 W - P_{TOT} 13 W	**6°**	100	83%	83
	20°	100	83%	83
	38°	100	83%	83

BEAM ANGLE

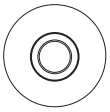
6° narrow

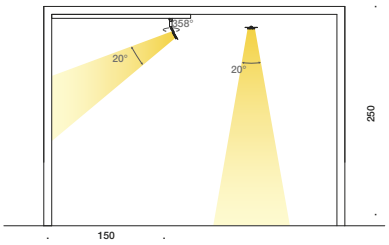


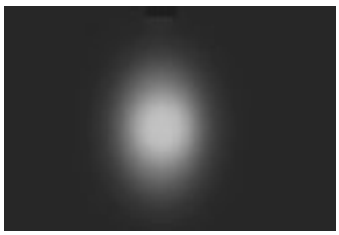




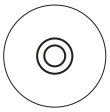
20° medium

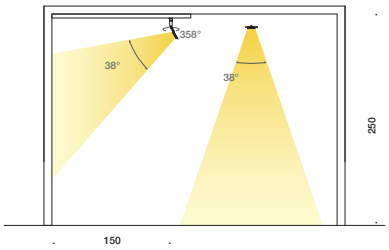


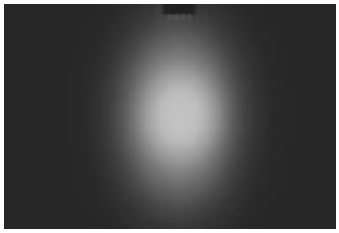




38° wide







UNA PRO HOLDER AND COLOURS

black | white | aluminium | gold

STANDARD

black holders

OPTIONAL

transparent / white holders

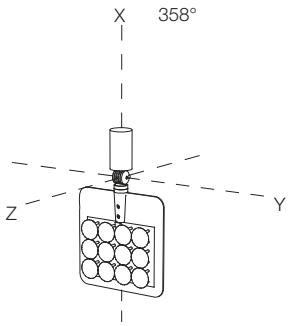
UNA PRO JOINT

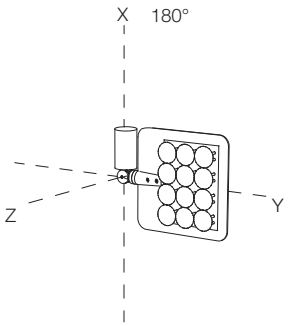
La massima flessibilità di UNA PRO è garantita da un piccolo snodo che consente un movimento di rotazione su due assi praticamente a 360° e sul terzo a 180°. Questo consente una totale libertà di movimento nello spazio delle diverse teste. La regolazione è immediata, grazie allo studio della dissipazione del calore la piastra che costituisce il corpo della lampada può essere liberamente toccato per direzionare nel modo più semplice ed intuitivo il fascio di luce.
La flessibilità aiuta inoltre a garantire un'integrazione perfetta con qualsiasi spazio e linguaggio architettonico, Una Pro può nascondersi fino a scomparire nella versione ad incasso, ed essere una presenza discreta che sottolinea l'importanza più della luce emessa che dell'apparecchio.

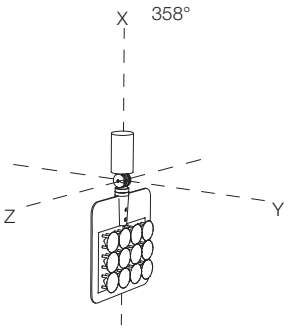
Flexibility is guaranteed by a small joint that allows a 360° rotation on two axis and a 180° rotation on the third one ensuring a total freedom of movement to the different heads.
Thanks to the study of the heat dissipation the plate that constitutes the body can be freely touched for directing the light beam in the space in a simple and intuitive way.
Una Pro fits in any type of environment and adapts itself to all sorts of architectural choices. It is very subtle the attention is given to light emission and its expressiveness and not to the product's shape.

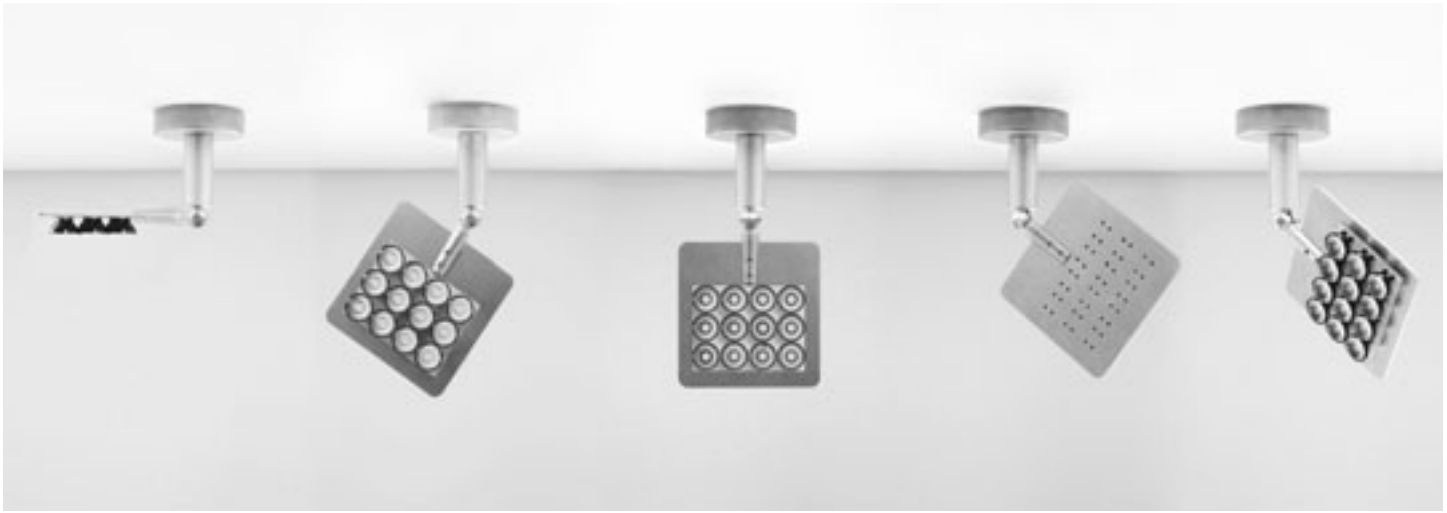
L'extrême souplesse d'UNA PRO est assurée par une petite articulation qui permet une rotation du produit sur deux axes, quasiment à 360° et sur le troisième à 180°. Cela permet une liberté de mouvement totale dans l'espace des différentes têtes. Le réglage est immédiat, grâce à l'étude de la dissipation thermique, la plaque qui constitue le corps de la lampe peut être touchée librement en vue d'orienter le faisceau de lumière de façon extrêmement simple et intuitive. De plus, la souplesse contribue à assurer une intégration parfaite avec tous les espaces et langages architecturaux, Una Pro peut se dissimuler voire même disparaître dans la version encastrable, et se faire discrète, soulignant plutôt l'importance de la lumière émise que de l'appareil.

Die größtmögliche Flexibilität von UNA PRO wird durch ein kleines Gelenk gewährleistet, das auf zwei Achsen eine Drehbewegung von praktisch 360° und auf der dritten Achse von 180° ermöglicht. Dadurch ergibt sich eine völlige Bewegungsfreiheit im Bereich der verschiedenen Köpfe. Die Regulierung erfolgt sofort und dank der Studie über die Wärmeableitung, kann die Platte, die den Leuchtenkörper bildet, sorglos berührt werden, um das Lichtbündel auf einfache und intuitive Weise ausrichten zu können. Die Flexibilität garantiert außerdem eine perfekte Interaktion mit jedem Bereich und jeder Architektursprache. Una Pro kann sich verbergen, in der Einbauausführung sogar verschwinden oder auch eine diskrete Präsenz darstellen, welche eher die Bedeutung des abgegebenen Lichts, als die des Geräts hervorhebt.









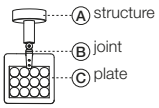
UNA PRO WALL / CEILING

Patent N° **MI2010A000185**

UNA PRO WALL / CEILING

Patent N° **MI2010A000185**

	STANDARD	OPTIONAL
LED	3700 K Ra 80	3000 K Ra 85
(T)	not dimmable	dimmable: 1...10V+push, dali with remote power supply
HOLDER		

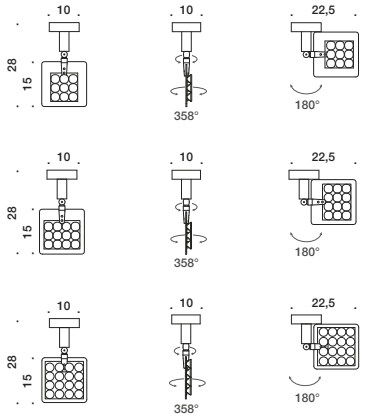


COLOUR

A ◇ + B ◇ + C ◇
A ◇ + B ◇ + C ◇
A ◇ + B ◇ + C ◆
A ◇ + B ◇ + C ◇

SYMBOLS IP20 F 0,7 kg
LED Service life L70(10K) > 60500h
energy label 1
LEED® certification's credits

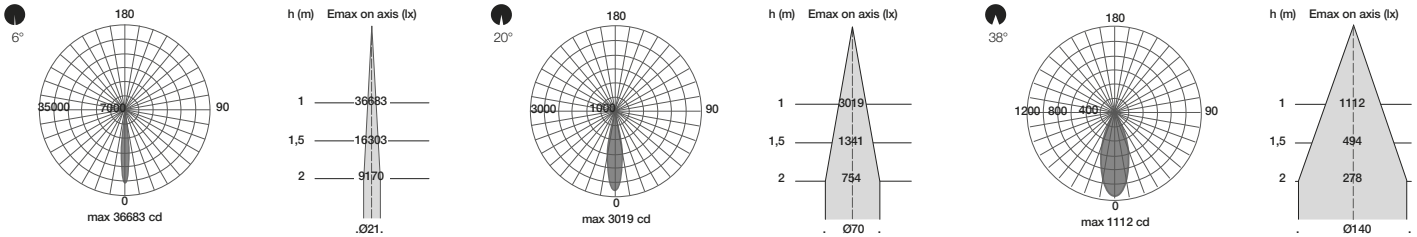
MATERIALS Alluminio - circuito stampato, aluminium - printed circuit board, aluminium - circuit imprimé, Aluminium - Leiterplat



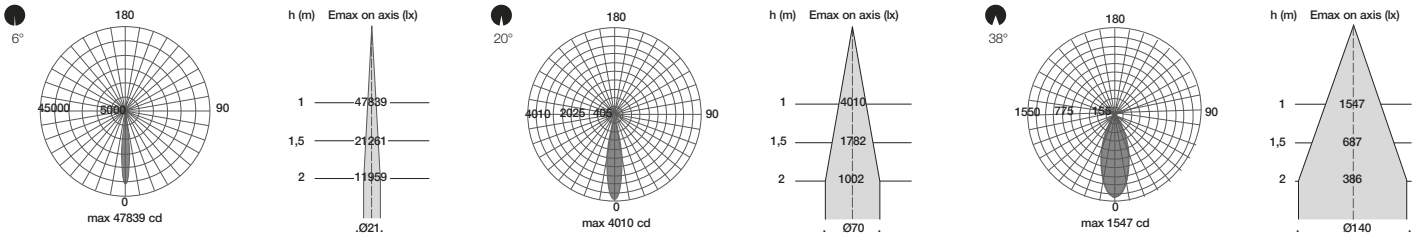
measures in cm

VERSION	LENS	CODE	COLOUR
9 LED LED flux 900 Lm Lamp flux 747 Lm PLED 9 W - PTOT 10 W	6°	**DD0014B__A1**	◇ 00 ◆ 09 ◇ 10 ◆ 02
	20°	**DD0014B__A2**	◇ 00 ◆ 09 ◇ 10 ◆ 02
	38°	**DD0014B__A3**	◇ 00 ◆ 09 ◇ 10 ◆ 02
12 LED LED flux 1200 Lm Lamp flux 996 Lm PLED 10,5 W - PTOT 13 W	6°	**DD0014B__B1**	◇ 00 ◆ 09 ◇ 10 ◆ 02
	20°	**DD0014B__B2**	◇ 00 ◆ 09 ◇ 10 ◆ 02
	38°	**DD0014B__B3**	◇ 00 ◆ 09 ◇ 10 ◆ 02
16 LED LED flux 1600 Lm Lamp flux 1328 Lm PLED 18 W - PTOT 20 W	6°	**DD0014B__C1**	◇ 00 ◆ 09 ◇ 10 ◆ 02
	20°	**DD0014B__C2**	◇ 00 ◆ 09 ◇ 10 ◆ 02
	38°	**DD0014B__C3**	◇ 00 ◆ 09 ◇ 10 ◆ 02

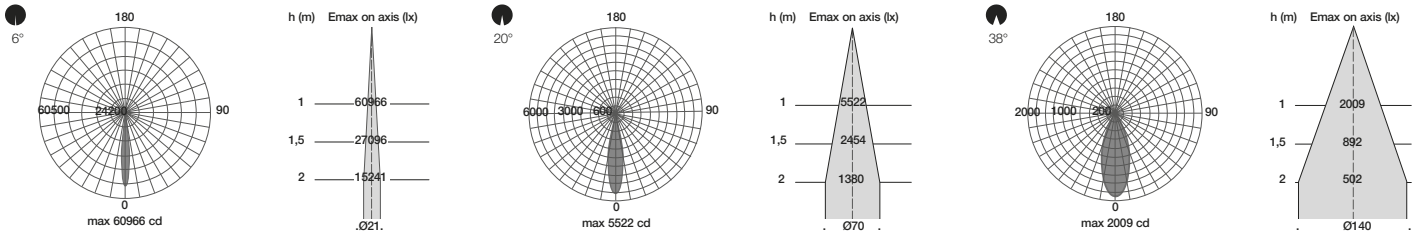
UNA PRO 9 LED – LED flux 900 Lm – 3700 K Ra 80 (3000 K Ra 85 -30% flux) - tolerance of ± 7%



UNA PRO 12 LED – LED flux 1200 Lm – 3700 K Ra 80 (3000 K Ra 85 -30% flux) - tolerance of ± 7%



UNA PRO 16 LED – LED flux 1600 Lm – 3700 K Ra 80 (3000 K Ra 85 -30% flux) - tolerance of ± 7%

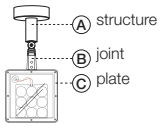


Vodafone Showroom, Milan | 2013

UNA PRO IP 65 WALL / CEILING

Patent N° **MI2010A000185**

	STANDARD	OPTIONAL
LED	3700 K Ra 80	3000 K Ra 85
	not dimmable	dimmable: 1...10V+push, dali
HOLDER		

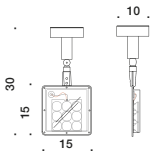


COLOUR

A ◇ + B ◇ + C ◇
A ◇ + B ◇ + C ◇
A ◇ + B ◇ + C ◆
A ◇ + B ◇ + C ◇

SYMBOLS IP65 0,7 kg
LED Service life L70(10K) > 60500h
energy label 1
LEED® certification's credits

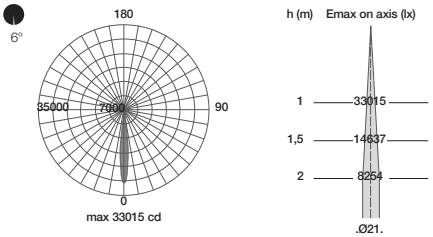
MATERIALS Alluminio - circuito stampato - plastica, aluminium - printed circuit board - plastic, aluminium - circuit imprimé - plastique, Aluminium - Leiterplat - Plastik

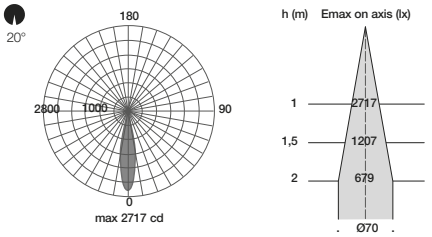


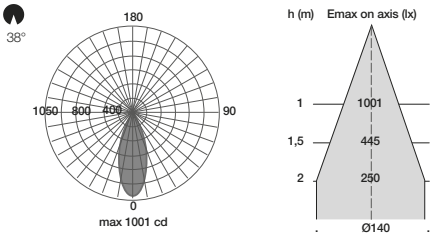
measures in cm

VERSION	LENS	CODE	COLOUR
9 LED LED flux 900 Lm Lamp flux 657 Lm P_{LED} 9 W	**6°**	**DD0014B__A1IP**	◇ 00 ◆ 09 ◇ 10 ◇ 02
	20°	**DD0014B__A2IP**	◇ 00 ◆ 09 ◇ 10 ◇ 02
	38°	**DD0014B__A3IP**	◇ 00 ◆ 09 ◇ 10 ◇ 02

UNA PRO 9 LED – LED flux 900 Lm – 3700 K Ra 80 (3000 K Ra 85 -30% flux) - tolerance of ± 7%







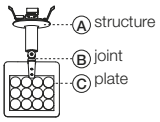
UNA PRO SEMI-RECESSED

Patent N° **MI2010A000185**

UNA PRO SEMI-RECESSED

Patent N° **MI2010A000185**

	STANDARD	OPTIONAL
LED	3700 K Ra 80	3000 K Ra 85
(T)	not dimmable	dimmable: 1...10V+push, dali
HOLDER		



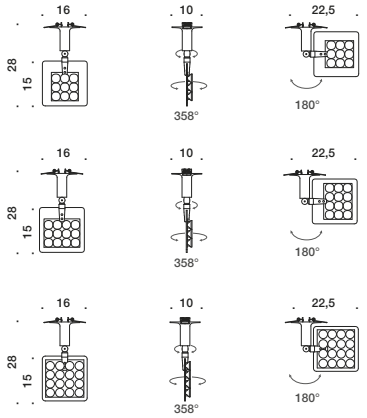
COLOUR

A ◇ + B ◇ + C ◇
A ◇ + B ◇ + C ◇
A ◇ + B ◇ + C ◆
A ◇ + B ◇ + C ◆

SYMBOLS IP20 F III 0,5 kg
LED Service life L70(10K) > 60500h
energy label 1
LEED® certification's credits

INSTALLATION

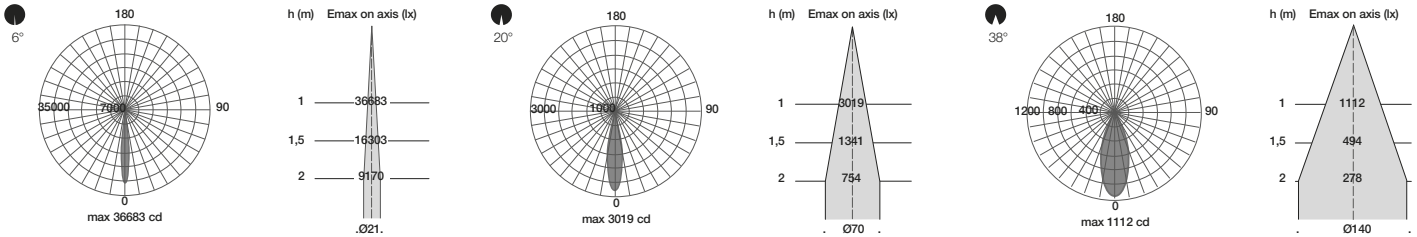
MATERIALS Alluminio - circuito stampato, aluminium - printed circuit board, aluminium - circuit imprimé, Aluminium - Leiterplat



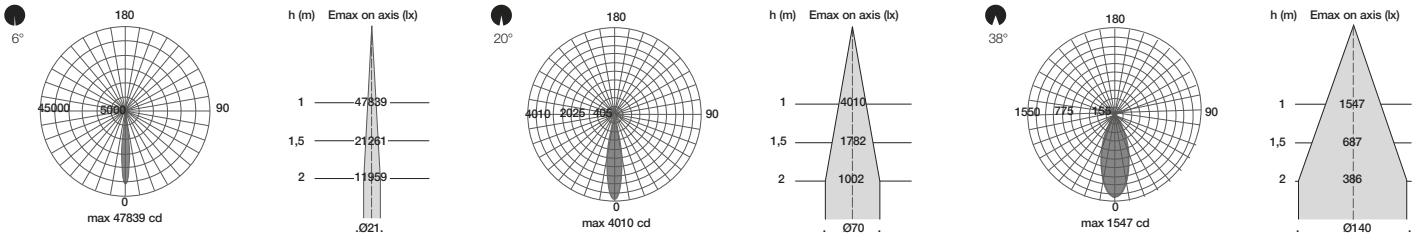
measures in cm

VERSION	LENS	CODE	COLOUR
9 LED LED flux 900 Lm Lamp flux 747 Lm PLED 9 W - PTOT 10 W	6°	**DD0014G__A1**	◇ 00 ◆ 09 ◇ 10 ◆ 02
	20°	**DD0014G__A2**	◇ 00 ◆ 09 ◇ 10 ◆ 02
	38°	**DD0014G__A3**	◇ 00 ◆ 09 ◇ 10 ◆ 02
12 LED LED flux 1200 Lm Lamp flux 996 Lm PLED 10,5 W - PTOT 13 W	6°	**DD0014G__B1**	◇ 00 ◆ 09 ◇ 10 ◆ 02
	20°	**DD0014G__B2**	◇ 00 ◆ 09 ◇ 10 ◆ 02
	38°	**DD0014G__B3**	◇ 00 ◆ 09 ◇ 10 ◆ 02
16 LED LED flux 1600 Lm Lamp flux 1328 Lm PLED 18 W - PTOT 20 W	6°	**DD0014G__C1**	◇ 00 ◆ 09 ◇ 10 ◆ 02
	20°	**DD0014G__C2**	◇ 00 ◆ 09 ◇ 10 ◆ 02
	38°	**DD0014G__C3**	◇ 00 ◆ 09 ◇ 10 ◆ 02

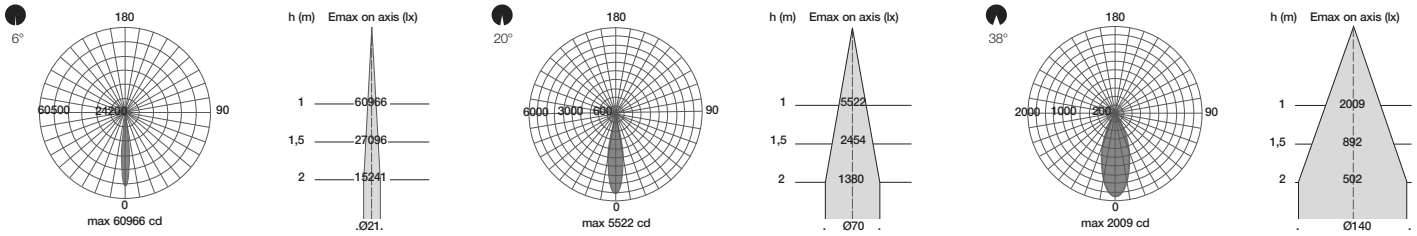
UNA PRO 9 LED – LED flux 900 Lm – 3700 K Ra 80 (3000 K Ra 85 -30% flux) - tolerance of ± 7%



UNA PRO 12 LED – LED flux 1200 Lm – 3700 K Ra 80 (3000 K Ra 85 -30% flux) - tolerance of ± 7%



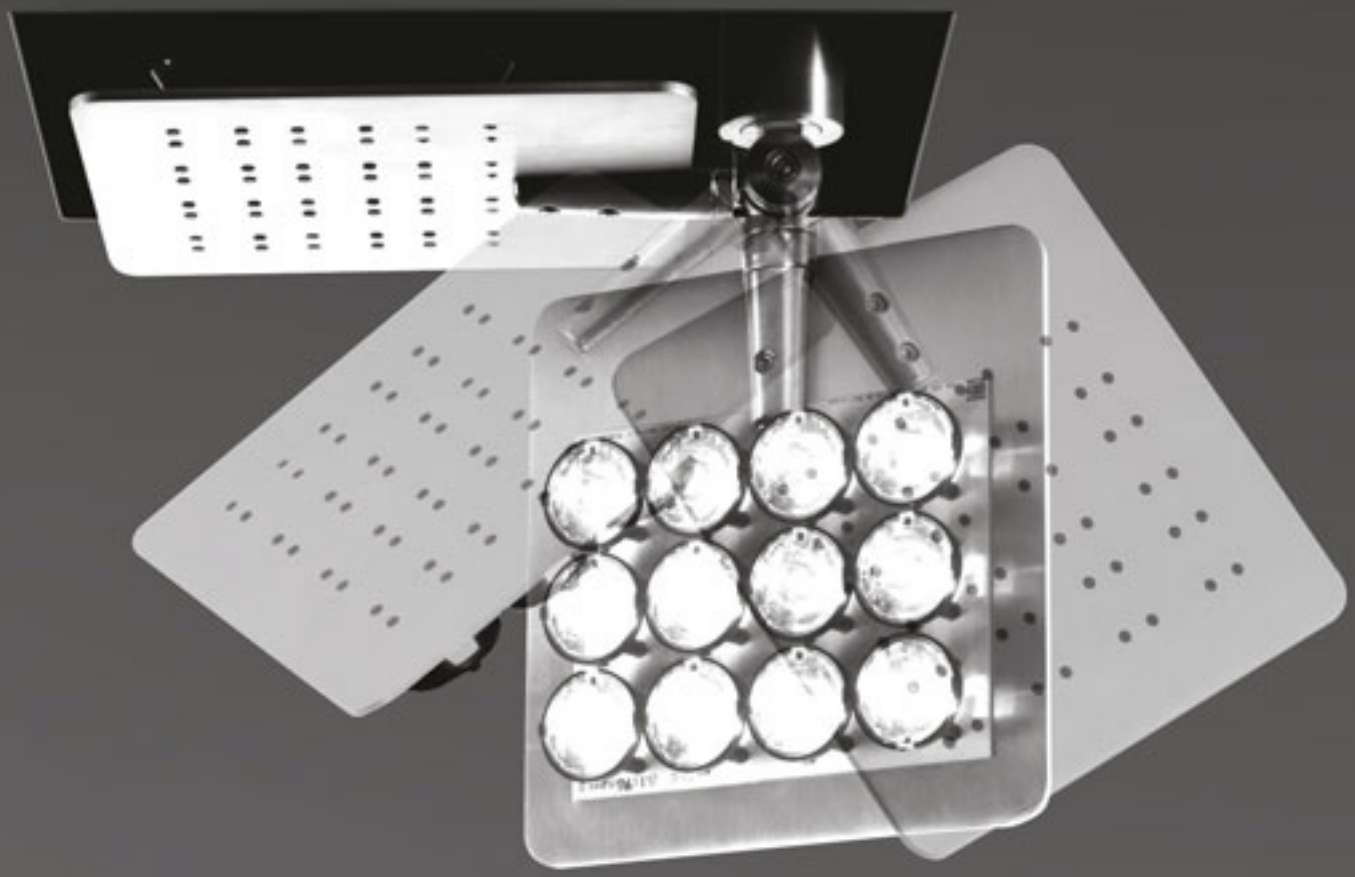
UNA PRO 16 LED – LED flux 1600 Lm – 3700 K Ra 80 (3000 K Ra 85 -30% flux) - tolerance of ± 7%



Villa Regina Margherita, Bordighera | 2011

UNA PRO RECESSED

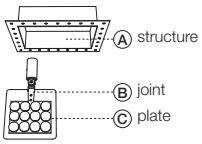
Patent N° **MI2010A000185**



UNA PRO RECESSED

Patent N° **MI2010A000185**

	STANDARD	OPTIONAL
LED	3700 K Ra 80	3000 K Ra 85
(T)	not dimmable	dimmable: 1...10V+push, dali
HOLDER		



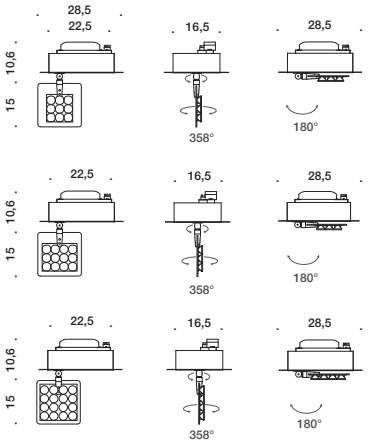
COLOUR

Ⓐ ◆ + Ⓑ ◇ + Ⓒ ◇
Ⓐ ◆ + Ⓑ ◇ + Ⓒ ◇
Ⓐ ◆ + Ⓑ ◇ + Ⓒ ◆
Ⓐ ◆ + Ⓑ ◇ + Ⓒ ◆

SYMBOLS IP20 (F) 1,6 kg
LED Service life L70(10K) > 60500h
energy label 1
LEED® certification's credits

INSTALLATION

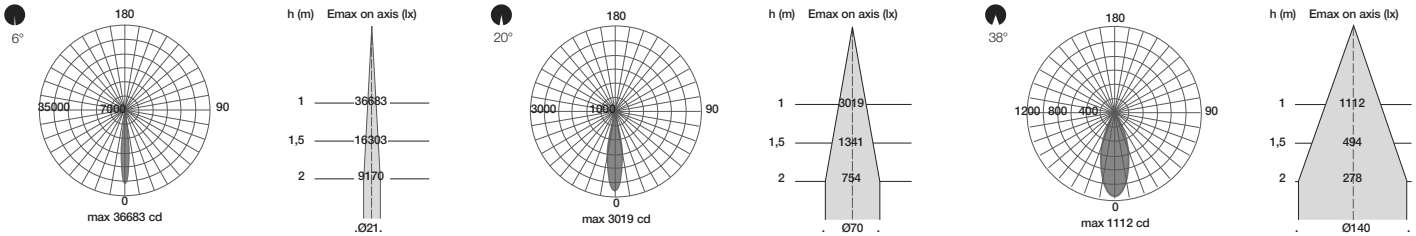
MATERIALS Alluminio - circuito stampato - metallo verniciato, aluminium - printed circuit board - painted metal, aluminium - circuit imprimé - metal peint, Aluminium - Leiterplat - lackiertes Metall



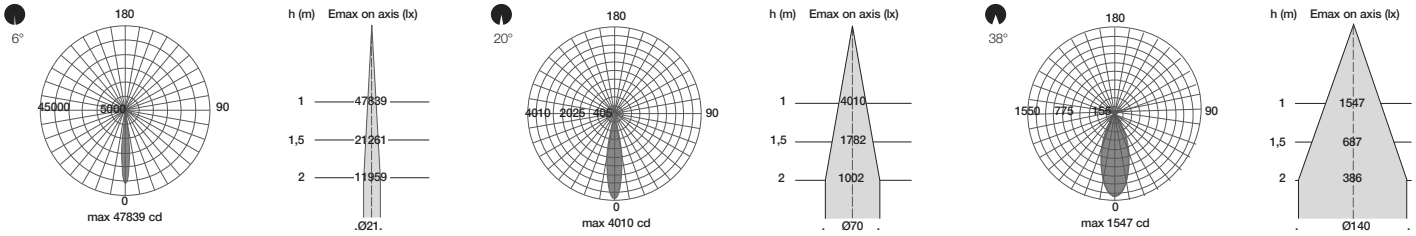
measures in cm

VERSION	LENS	CODE	COLOUR
9 LED LED flux 900 Lm Lamp flux 747 Lm PLED 9 W - PTOT 10 W	6°	**DD0014C__A1**	◇ 00 ◆ 09 ◇ 10 ◆ 02
	20°	**DD0014C__A2**	◇ 00 ◆ 09 ◇ 10 ◆ 02
	38°	**DD0014C__A3**	◇ 00 ◆ 09 ◇ 10 ◆ 02
12 LED LED flux 1200 Lm Lamp flux 996 Lm PLED 10,5 W - PTOT 13 W	6°	**DD0014C__B1**	◇ 00 ◆ 09 ◇ 10 ◆ 02
	20°	**DD0014C__B2**	◇ 00 ◆ 09 ◇ 10 ◆ 02
	38°	**DD0014C__B3**	◇ 00 ◆ 09 ◇ 10 ◆ 02
16 LED LED flux 1600 Lm Lamp flux 1328 Lm PLED 18 W - PTOT 20 W	6°	**DD0014C__C1**	◇ 00 ◆ 09 ◇ 10 ◆ 02
	20°	**DD0014C__C2**	◇ 00 ◆ 09 ◇ 10 ◆ 02
	38°	**DD0014C__C3**	◇ 00 ◆ 09 ◇ 10 ◆ 02

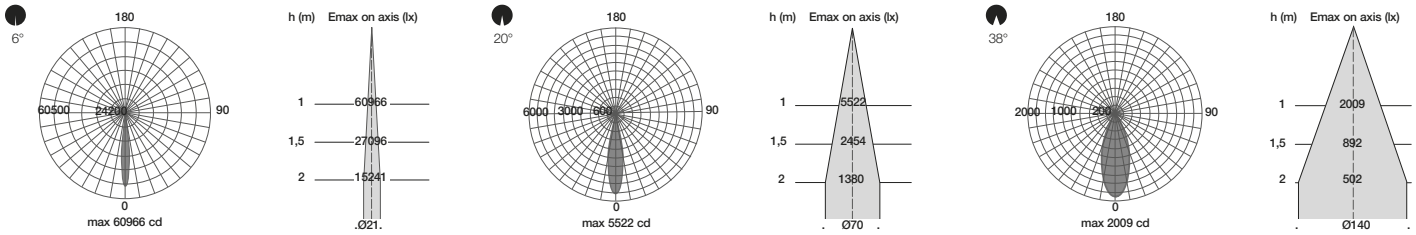
UNA PRO 9 LED – LED flux 900 Lm – 3700 K Ra 80 (3000 K Ra 85 -30% flux) - tolerance of ± 7%

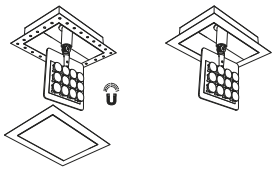


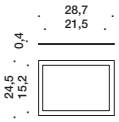
UNA PRO 12 LED – LED flux 1200 Lm – 3700 K Ra 80 (3000 K Ra 85 -30% flux) - tolerance of ± 7%



UNA PRO 16 LED – LED flux 1600 Lm – 3700 K Ra 80 (3000 K Ra 85 -30% flux) - tolerance of ± 7%







ACCESSORIES	CODE	CODE COLOUR
FRAME UNA PRO	**DD0014CFR__**	◇ 00 ◆ 09 ◇ 10 ◇ 02

UNA PRO TRACK

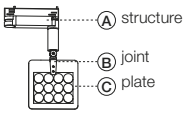
Patent N° **MI2010A000185**

Dali version

UNA PRO TRACK

Patent N° **MI2010A000185**

	STANDARD	OPTIONAL
LED	3700 K Ra 80	3000 K Ra 85
(T)	not dimmable	dimmable: dali
HOLDER		

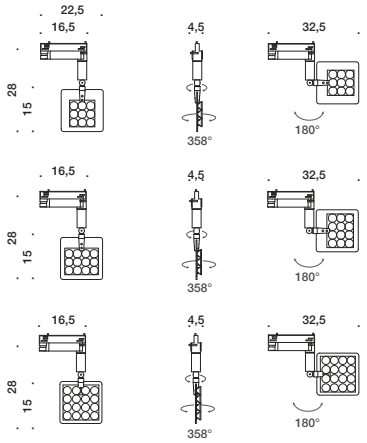


COLOUR

A ◇ + B ◇ + C ◇
A ◇ + B ◇ + C ◇
A ◇ + B ◇ + C ◆
A ◇ + B ◇ + C ◆

SYMBOLS IP20 F 0,6 kg
LED Service life L70(10K) > 60500h
energy label 1
LEED® certification's credits

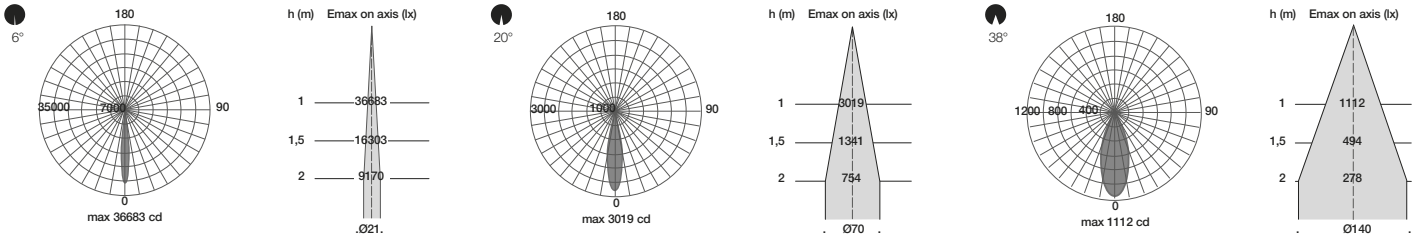
MATERIALS Alluminio - circuito stampato, aluminium - printed circuit board, aluminium - circuit imprimé, Aluminium - Leiterplat



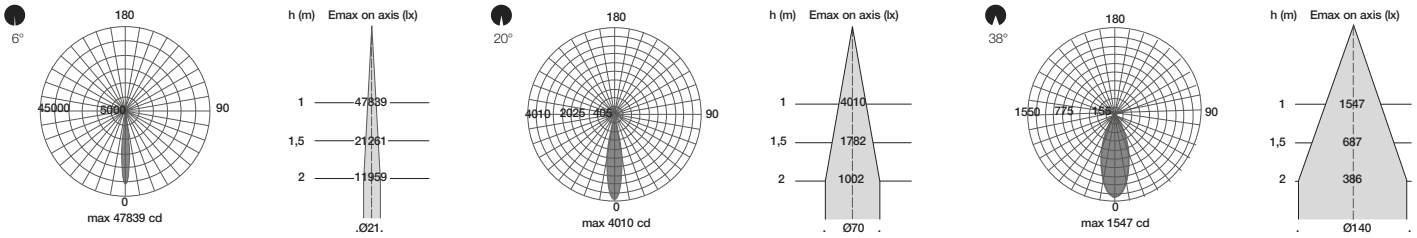
measures in cm

VERSION	LENS	CODE	COLOUR
9 LED LED flux 900 Lm Lamp flux 747 Lm PLED 9 W - PTOT 10 W	**6°**	**DD0014D__A1**	◇ 00 ◆ 09 ◇ 10 ◆ 02
	20°	**DD0014D__A2**	◇ 00 ◆ 09 ◇ 10 ◆ 02
	38°	**DD0014D__A3**	◇ 00 ◆ 09 ◇ 10 ◆ 02
12 LED LED flux 1200 Lm Lamp flux 996 Lm PLED 10,5 W - PTOT 13 W	**6°**	**DD0014D__B1**	◇ 00 ◆ 09 ◇ 10 ◆ 02
	20°	**DD0014D__B2**	◇ 00 ◆ 09 ◇ 10 ◆ 02
	38°	**DD0014D__B3**	◇ 00 ◆ 09 ◇ 10 ◆ 02
16 LED LED flux 1600 Lm Lamp flux 1328 Lm PLED 18 W - PTOT 20 W	**6°**	**DD0014D__C1**	◇ 00 ◆ 09 ◇ 10 ◆ 02
	20°	**DD0014D__C2**	◇ 00 ◆ 09 ◇ 10 ◆ 02
	38°	**DD0014D__C3**	◇ 00 ◆ 09 ◇ 10 ◆ 02

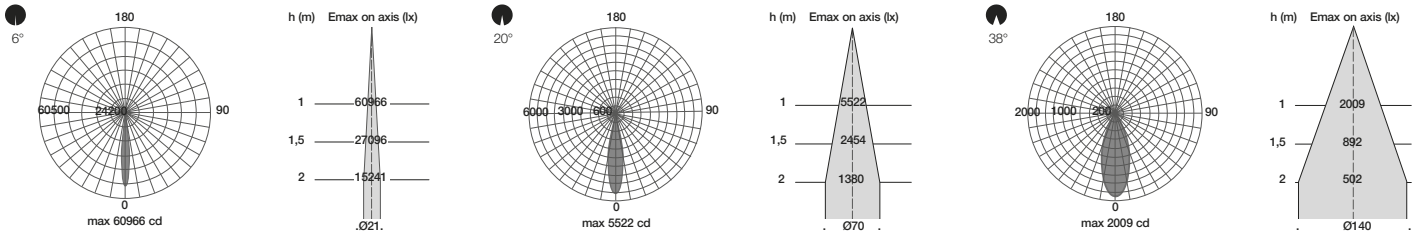
UNA PRO 9 LED – LED flux 900 Lm – 3700 K Ra 80 (3000 K Ra 85 -30% flux) - tolerance of ± 7%



UNA PRO 12 LED – LED flux 1200 Lm – 3700 K Ra 80 (3000 K Ra 85 -30% flux) - tolerance of ± 7%



UNA PRO 16 LED – LED flux 1600 Lm – 3700 K Ra 80 (3000 K Ra 85 -30% flux) - tolerance of ± 7%



Larte, Milan | 2013

UNA PRO RGB / UNA PRO RWB

Patent N° **MI2010A000185**
Patent Pending N° **MI2010A000657**

RGB LED: 4red + 2blue + 6green

RWB LED: 4red + 2blue + 6neutral white

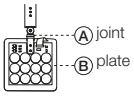
HOLDER

SYMBOLS IP20

LED Service life L70(10K) > 60500h

energy label 1

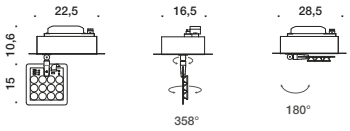
LEED® certification's credits



COLOUR

Ⓐ ◇ + Ⓑ ◇
Ⓐ ◇ + Ⓑ ◇
Ⓐ ◇ + Ⓑ ◆
Ⓐ ◇ + Ⓑ ◇

MATERIALS Alluminio - circuito stampato, aluminium - printed circuit board, aluminium - circuit imprimé, Aluminium - Leiterplat



VERSION	LENS	LIGHT COLOUR	CODE	COLOUR
12 LED semi-recessed LED flux 885 Lm Lamp flux 735 Lm P_{LED} 14,5 W	38°	RGB	**DD0014G__B3R**	◇ 00 ◆ 09 ◇ 10 ◇ 02
		RWB	**DD0014G__B3X**	
12 LED recessed LED flux 885 Lm Lamp flux 735 Lm P_{LED} 14,5 W	38°	RGB	**DD0014C__B3R**	◇ 00 ◆ 09 ◇ 10 ◇ 02
		RWB	**DD0014C__B3X**	

measures in cm

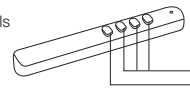
RGB red

RGB green

RGB blu

ACCESSORIES

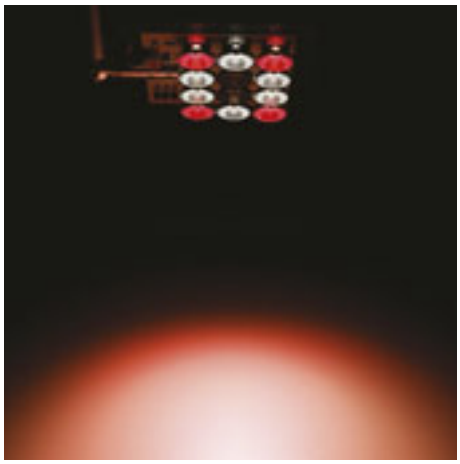
EASY
IR remote control
separate management of the three channels



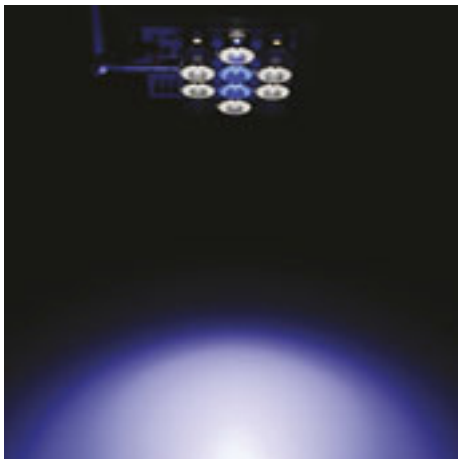
IR remote control (not included, to be ordered separately)	CODE
* **colour control (RGB/RWB)** on/off dimming ** **programmes** colour/white	DDRGB001

ADVANCED
Dali or DMX
RWB: white tunable system whit preset color temperatures from 2400 to 10000 K or separate management of the three channels.
RGB: System whit preset color scenery or separate management of the three channels

RWB red



RWB blu



RWB white

UNA PRO TERRA

Patent N° **MI2010A000185**

	STANDARD	OPTIONAL
LED	3700 K Ra 80	3000 K Ra 85
(T)	dimmable	
HOLDER		

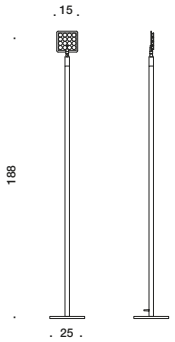
SYMBOLS IP20

LED Service life L70(10K) > 60500h

energy label 1

LEED® certification's credits

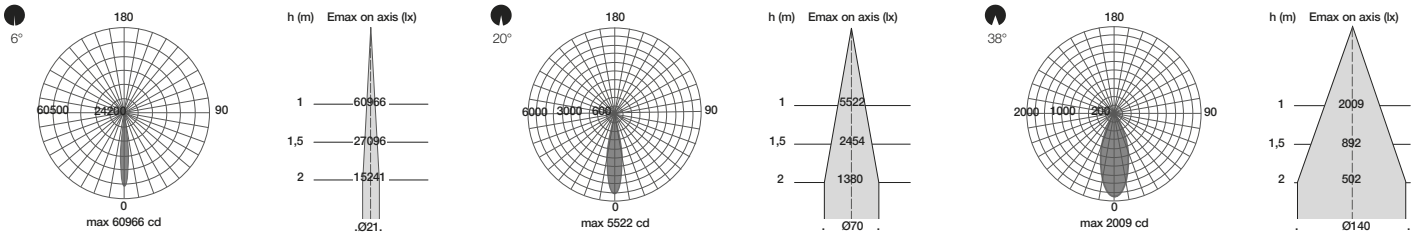
MATERIALS Alluminio - circuito stampato - pirex - metallo verniciato, aluminium - printed circuit board - pirex - painted metal, aluminium - circuit imprimé - pirex - metal peint , Aluminium - Leiterplat - pirex - lackiertes Metall



VERSION	LENS	CODE	COLOUR
16 LED LED flux 1600 Lm Lamp flux 1328 Lm P_{LED} 18 W - P_{TOT} 20 W	**6°**	**DD0014T__C1**	00 ◇ 09 ◆
	20°	**DD0014T__C2**	00 ◇ 09 ◆
	38°	**DD0014T__C3**	00 ◇ 09 ◆

measures in cm

UNA PRO 16 LED – LED flux 1600 Lm – 3700 K Ra 80 (3000 K Ra 85 -30% flux) - tolerance of ± 7%



UNA PRO 75 *Carlotta de Bevilacqua 2011*

UNA PRO 75 ADJUSTABLE OVERVIEW

SMD
SMD IP44

. 4 LED P_{TOT} 7W / **2x4 LED** P_{TOT} 14W
. LENS **6°** / **20°** / **38°**

IP20/IP44

3700K Ra 80
not dimmable

OPTIONAL
3000K Ra 85
dimmable 1..10V+push, dali

pag. **66**

recessed
recessed IP44

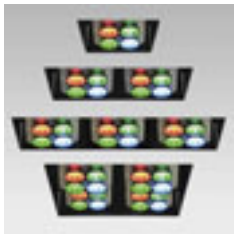
. 4 LED P_{TOT} 7W / **2x4 LED** P_{TOT} 14W / **3x4 LED** P_{TOT} 21W / ***4x4 LED** P_{TOT} 28W
. LENS **6°** / **20°** / **38°**

IP20/IP44

3700K Ra 80
not dimmable

OPTIONAL
3000K Ra 85
dimmable 1..10V+push, dali

pag. **70**



RGB recessed
RGB recessed IP44

. 4 LED P_{LED} 5W / **2x4 LED** P_{LED} 10W / **3x4 LED** P_{LED} 15W / **4x4 LED** P_{LED} 20W
. LENS **6°** / **20°** / **38°**

IP20/IP44

OPTIONAL

pag. **76**

RWB recessed
RWB recessed IP44

. 4 LED P_{LED} 5W / **2x4 LED** P_{LED} 10W / **3x4 LED** P_{LED} 15W / **4x4 LED** P_{LED} 20W
. LENS **6°** / **20°** / **38°**

IP20/IP44

OPTIONAL

pag. **76**

track suspension

. 6x4 LED P_{TOT} 42W
. LENS **6°** / **20°** / **38°**

IP20

3700K Ra 80
not dimmable

OPTIONAL
3000K Ra 85
dimmable 1..10V+push, dali

pag. **80**

track ceiling

. 6x4 LED P_{TOT} 42W
. LENS **6°** / **20°** / **38°**

IP20

3700K Ra 80
not dimmable

OPTIONAL
3000K Ra 85
dimmable 1..10V+push, dali

pag. **80**

NOTE: the codes refer to the standard version equipped by neutral white LED 3700K and black holders.
To compose the complete code add the colour numbers in the spaces __ in the lamp code.

UNA PRO 75

UNA PRO 75 è l'evoluzione di Una Pro progettata per costituire una valida alternativa agli apparecchi che impiegano le sorgenti alogene dicroiche.
Come per Una Pro i consumi sono ridotti al minimo mentre le qualità delle performance di luce sono massimizzate da una flessibilità assolutamente nuova. La combinazione delle diverse versioni apre infinite possibilità di modellare la luce con soluzioni che si integrano perfettamente nell'architettura e ne seguono l'evoluzione funzionale grazie alla possibilità di riconfigurare le performance nel tempo.
Le diverse versioni si declinano in elementi modulari che si compongono di 1, 2, 3 o 4 teste così da calibrare consumi ed emissioni a seconda delle esigenze di luce o dei vincoli architettonici, aprendo la possibilità di comporre scenari di luce flessibili e perfettamente integrati nello spazio.
L'elemento base è una testa in cui la tecnologia brevettata di dissipazione del calore consente di ridurre al minimo le dimensioni della piastra che monta 4 led garantendo in soli 7,5 cm e con un consumo di soli 7 W prestazioni equivalenti, se non superiori, ad un classico faretto alogeno da 50 W.

UNA PRO 75 représente l'évolution d'Una Pro, conçue en vue de proposer une alternative valable aux appareils utilisant des sources halogènes dichroïques. Comme pour Una Pro, les consommations sont réduites au minimum tandis que les qualités de la performance lumineuse sont exaltées par une souplesse inouïe. L'association des différentes versions offre d'infinies possibilités de modeler la lumière, avec des solutions qui se fondent parfaitement dans l'architecture et en suivent l'évolution fonctionnelle grâce à la possibilité de revoir les performances dans le temps. Les différentes versions se déclinent en éléments modulaires constitués de 1, 2, 3 ou 4 têtes de façon à équilibrer les consommations et les émissions en fonction des besoins en lumière ou des contraintes architecturales, offrant la possibilité de composer des jeux de lumière souples et parfaitement intégrés dans l'espace.
L'élément de base est une tête dans laquelle la technologie brevetée de dissipation thermique permet de réduire au minimum les dimensions de la plaque, sur laquelle sont montées 4 leds, assurant, en seulement 7,5 cm et avec une consommation de seulement 7 W, des performances équivalentes, voire même supérieures, à celles d'un spot halogène classique de 50 W.

UNA PRO 75 is the evolution of Una Pro, designed to represent a valid alternative to equipment using dichroic halogen light sources.
Like in Una Pro, consumption is reduced to a minimum whereas the light output performance quality is maximized by an entirely new flexibility. The combination of the different versions opens endless possibilities to model light with solutions capable of perfectly combining with the architecture and of following its functional evolution thanks to the ability to shape their performance over time. The different versions are made of modular elements including 1, 2, 3 or 4 heads. Therefore, it is possible to adjust consumption and emissions to the lighting requirements or architectural limits, making it possible to create flexible light scenarios perfectly integrated in the environment.
The basic element is the head, which features a patented heat loss technology allowing to reduce to the minimum the size of the plate where the 4 LEDs are fitted, thus guaranteeing a performance equal to - or even better than - the traditional 50 W halogen downlights in only 7,5 cm and with a consumption of only 7 W.

UNA PRO 75 ist die Evolution von Una Pro. Sie wurde entworfen, um eine gute Alternative zu Geräten zu schaffen, die mit zweifarbigen Halogenlichtquellen funktionieren. Durch eine völlig neue Flexibilität kann man wie bei Una Pro die bestmögliche Lichtleistung bei Mindestverbrauch erzielen. Die Kombination der verschiedenen Ausführungen eröffnet unendliche Möglichkeiten, das Licht mit Lösungen zu modulieren, das sich perfekt in die Architektur eingliedert. Die Neugestaltung der Leistungen führt im Laufe der Zeit zur funktionellen Evolution. Die verschiedenen Ausführungen gliedern sich in Modulelemente mit 1, 2, 3 oder 4 Köpfen, wodurch Verbrauch und Emissionen nach den Lichtbedürfnissen und architektonischen Einschränkungen geregelt werden kann. Außerdem eröffnet sich dadurch die Möglichkeit, flexible und perfekt in den Raum integrierte Lichtszenarien zu schaffen.
Das Grundelement ist ein Kopf. Durch die patentierte Technologie zur Wärmeableitung können die Mindestmaße der Platte, auf denen 4 LEDs montiert sind, reduziert werden. Dies garantiert nur 7,5 cm und einen Verbrauch von nur 7 W bei gleichen oder höheren Leistungen im Vergleich zu klassischen 50 W Halogenstrahlern.

UNA PRO 75 RECESSED

1x4 LED
P_{TOT} 7 W - lamp flux 498 Lm

2x4 LED
P_{TOT} 14 W - lamp flux 996 Lm

3x4 LED
P_{TOT} 21 W - lamp flux 1495 Lm

4x4 LED
P_{TOT} 28 W - lamp flux 2040 Lm

UNA PRO 75 SMD

1x4 LED
P_{TOT} 7 W - lamp flux 498 Lm

2x4 LED
P_{TOT} 14 W - lamp flux 996 Lm

UNA PRO 75 TRACK

6

6x6 LED
P_{TOT} 42 W - lamp flux 2988 Lm

n

n x4 LED

UNA PRO 75 LENSES

UNA PRO 75 può montare led di diverse temperature di colore (neutral o warm white) per garantire la qualità della luce adatta ad ogni specifica applicazione, su questi si applicano tre diversi set di lenti TIR intercambiabili infinite volte in modo elementare, senza l'ausilio di nessuno strumento, anche ad installazione avvenuta che permettono di ottenere da un unico corpo lampada tre diverse emissioni di 6°, 20°, 38° con una precisione di controllo dell'apertura del fascio luminoso decisamente superiore rispetto ai tradizionali faretti alogeni (margine di scostamento di 1°-1,5°). Le lenti TIR sono componenti ottici che, attraverso il principio della riflessione interna totale convogliano l'85% del flusso luminoso del LED sul compito visivo. Hanno la capacità di rendere non visibile la sorgente luminosa, in questo modo la luminanza della superficie emissiva, pur essendo superiore alle 3000 cd/m2 @ 65° è comunque di tipo "comfort".

UNA PRO 75 peut être équipée de leds de différentes températures de couleur (neutre ou warm white) assurant une qualité de lumière parfaite pour toutes les applications spécifiques, sur celles-ci, il est possible d'appliquer trois différents sets de lentilles TIR interchangeables à l'infini et de façon très simple, sans qu'aucun outil ne soit nécessaire, même lorsque l'installation est achevée, permettant d'obtenir un corps de lampe unique avec trois émissions différentes, de 6°, 20° et 38°, et un contrôle précis de l'ouverture du faisceau lumineux nettement supérieure par rapport aux spots halogènes traditionnels (marge d'écartement de 1°-1,5°). Les lentilles TIR sont des composants optiques qui, à travers le principe de la réflexion interne totale, dirigent 85% du flux lumineux de la LED sur la tâche visuelle. Elles ont la capacité de rendre invisible la source lumineuse ainsi, la luminance de la surface émissive, quoique que supérieure à 3000 cd/m2 @ 65°, assure le confort visuel.

UNA PRO 75 can feature LEDs with various colour temperatures (neutral or warm white) so to guarantee the perfect lighting for each specific application. Three different TIR lens sets are fitted on these LEDs: they can be easily exchanged every time you wish without the need for any instrument, even once the installation is complete, and they allow to obtain from a single lamp three different 6° 20° 38° light emissions, featuring a beam angle control precision absolutely improved compared to the traditional halogen downlights (1°-1,5° deviation). TIR lenses are optic components that convey 85% of the LED light beam onto the visual task by relying on the principle of total internal reflection.
Their feature is to avoid visible light sources, thus providing comfortable light surface luminance, while being over 3,000 cd/m2 @ 65°.

UNA PRO 75 kann LEDs mit unterschiedlichen Farbtemperaturen montieren (neutral oder warmes Weiß). Um die korrekte Lichtqualität für jede spezifische Anwendung gewährleisten zu können, werden drei verschiedene Linsensets verwendet, die auch nach der Installation auf einfache Weise ohne Hilfsmittel beliebig oft untereinander vertauscht werden können, wodurch man mit einem einzigen Lampenkörper drei verschiedene Emissionen mit 6°, 20° und 38° und einer präzisen Öffnungskontrolle des Lichtbündels weit über herkömmliche Halogenstrahler (Abweichungsmarge 1°–1,5°) erhält.
Die Linsen TIR sind optische Komponenten, die durch das Prinzip der Gesamtinnenrückstrahlung 85 % des Lichtstroms des LEDS auf die visuelle Aufgabe leiten.
Sie können die Lichtquelle unsichtbar machen. Obwohl die Luminanz der Emissionsfläche über 3000 cd/m2 @ 65° liegt, sorgt sie auf diese Weise immer für Sichtkomfort.

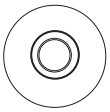
UNA PRO 75 efficiency

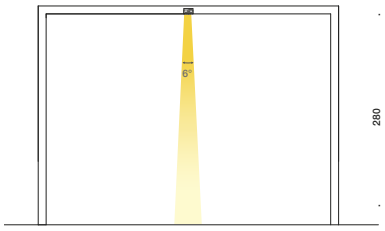
** data declared in producers catalogues

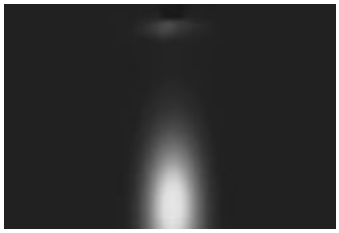
UNA PRO 75	LENS	η lamping Lm/W**	R	η lamp Lm/W
4 LED LED flux 600 Lm Lamp flux 498 Lm P_{LED} 6 W - P_{TOT} 7 W	**6°**	**100**	**83%**	83
	20°	**100**	**83%**	83
	38°	**100**	**83%**	83

UNA PRO 75 BEAM ANGLE

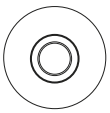
6° narrow

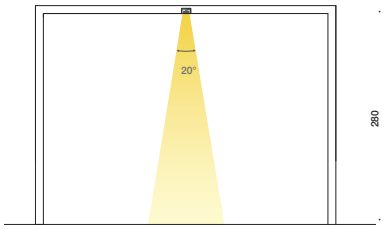


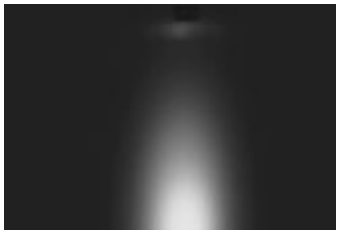




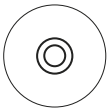
20° medium

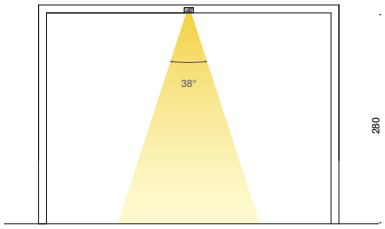


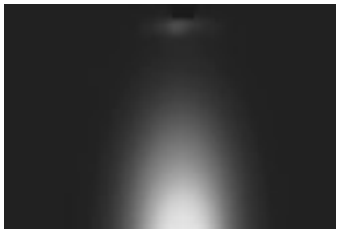




38° wide







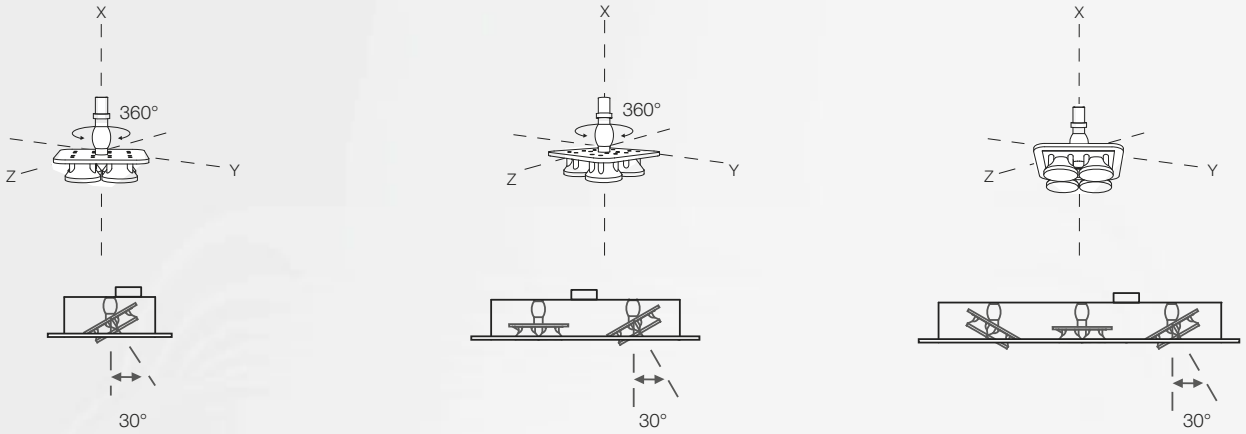
UNA PRO 75 JOINT

Lo snodo consente una rotazione a 360° e una inclinazione di 30° in qualsiasi direzione, un movimento adatto a raggiungere i diversi punti che possono necessitare di accenti di luce su superfici orizzontali o verticali, o semplicemente a distribuire nel modo più uniforme l'emissione nello spazio.
Nelle composizioni multiple ogni testa da 4 led è gestibile singolarmente così che ogni fascio di luce possa essere orientato indipendentemente dagli altri per sottolineare diversi punti nello spazio con l'installazione di un unico apparecchio.

Lamp joint allows a 360° rotation and 30° inclination in any direction, thus managing to reach any point that may require lighting on horizontal or vertical surfaces, or simply to distribute light emission evenly in the room.
In case of multiple heads, each 4-LED head can be controlled individually. Therefore, every light beam can be oriented independently form the others, highlighting several points with a single lamp.

L'articulation permet une rotation à 360° et une inclinaison de 30° dans toutes les directions, un mouvement permettant de rejoindre les différents points pouvant nécessiter une concentration de la lumière sur des surfaces horizontales ou verticales ou tout simplement de distribuer l'émission dans l'espace de la manière la plus uniforme possible.
Dans les compositions multiples, chaque tête de 4 leds peut être gérée individuellement, si bien que chaque faisceau de lumière peut être orienté indépendamment des autres pour souligner différents points dans l'espace, en installant un seul appareil.

Das Gelenk ermöglicht eine 360°-Drehung und 30°-Neigung in alle Richtungen. Durch diese Bewegung kann man verschiedene Punkte erreichen, die Lichtakzente auf horizontalen oder vertikalen Flächen benötigen, oder aber einfach nur die Lichtemission im Raum gleichförmig verteilen.
Bei Mehrfach-Zusammensetzungen kann jeder Kopf mit 4 LEDs einzeln gesteuert werden, damit jedes Lichtbündel einer einzigen Leuchte unabhängig auf verschiedene Punkte im Raum ausgerichtet werden kann.



UNA PRO 75 SMD

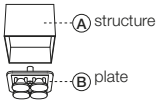
Patent N° **MI2010A000185**

UNA PRO 75 SMD

Patent N° **MI2010A000185**

IP20

	STANDARD	OPTIONAL
LED	3700 K Ra 80	3000 K Ra 85
(T)	not dimmable	dimmable: 1...10V+push, dali with remote power supply
HOLDER		

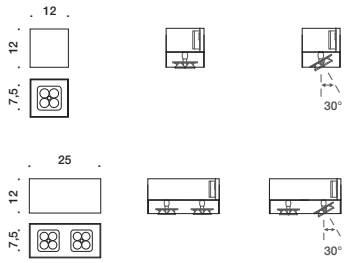


COLOUR

A ◇ + B ◇
A ◇ + B ◇
A ◆ + B ◆
A ◇ + B ◇

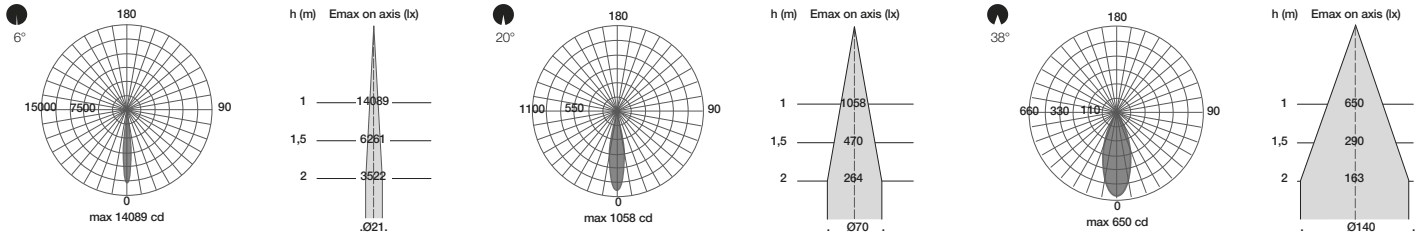
SYMBOLS IP20 F 4 LED 0,5 kg / 2x4 LED 0,9 kg
LED Service life L70(10K) > 60500h
energy label 1
LEED® certification's credits

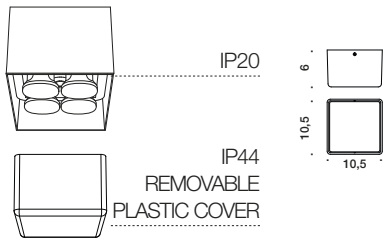
MATERIALS Alluminio anodizzato o verniciato - circuito stampato, anodized or painted aluminium - printed circuit board, aluminium anodisé ou peint - circuit imprimé, eloxiertes Aluminium oder lackiert - Leiterplat



VERSION	LENS	CODE	CODE COLOUR
4 LED LED flux 600 Lm Lamp flux 498 Lm PLED 6 W - PTOT 7 W	6°	**DD0014I__D1S**	◇ 00 ◆ 09 ◇ 10 ◇ 02
	20°	**DD0014I__D2S**	◇ 00 ◆ 09 ◇ 10 ◇ 02
	38°	**DD0014I__D3S**	◇ 00 ◆ 09 ◇ 10 ◇ 02
2 x 4 LED LED flux 1200 Lm Lamp flux 996 Lm PLED 12 W - PTOT 14 W	6°	**DD0014L__D1S**	◇ 00 ◆ 09 ◇ 10 ◇ 02
	20°	**DD0014L__D2S**	◇ 00 ◆ 09 ◇ 10 ◇ 02
	38°	**DD0014L__D3S**	◇ 00 ◆ 09 ◇ 10 ◇ 02

UNA PRO 4 LED – LED flux 600 Lm — 3700 K Ra 80 (3000 K Ra 85 -30% flux) - tolerance of ± 7% - IP 44 -10% flux





ACCESSORIES	CODE
COVER IP 44	**DD0014ICLT44**

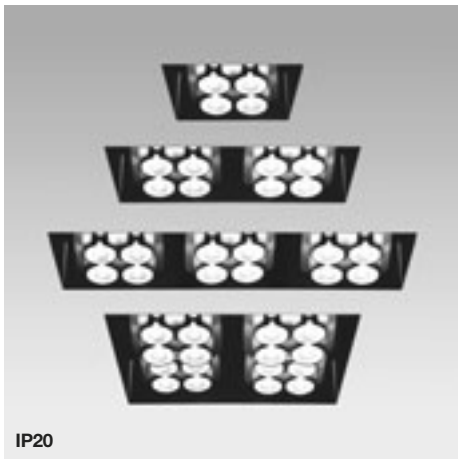
Office I 2011

UNA PRO 75 ADJUSTABLE RECESSED

Patent N° **MI2010A000185**

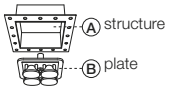
UNA PRO 75 ADJUSTABLE RECESSED

Patent N° **MI2010A000185**



IP20

	STANDARD	OPTIONAL
LED	3700 K Ra 80	3000 K Ra 85
(T)	not dimmable	dimmable: 1...10V+push, dali
HOLDER		



COLOUR

Ⓐ ◆ + Ⓑ ◇
Ⓐ ◆ + Ⓑ ◇
Ⓐ ◆ + Ⓑ ◆
Ⓐ ◆ + Ⓑ ◆

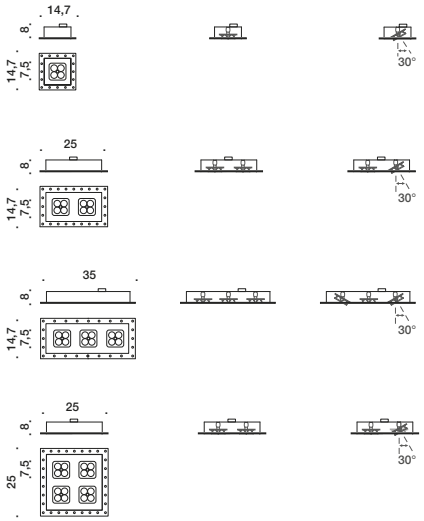
SYMBOLS IP20 F * 4 LED 0,4 kg / 2x4 LED 0,9 kg
3x4 LED 1,4kg / *4x4 LED 1,6kg

LED Service life L70(10K) > 60500h

energy label 1

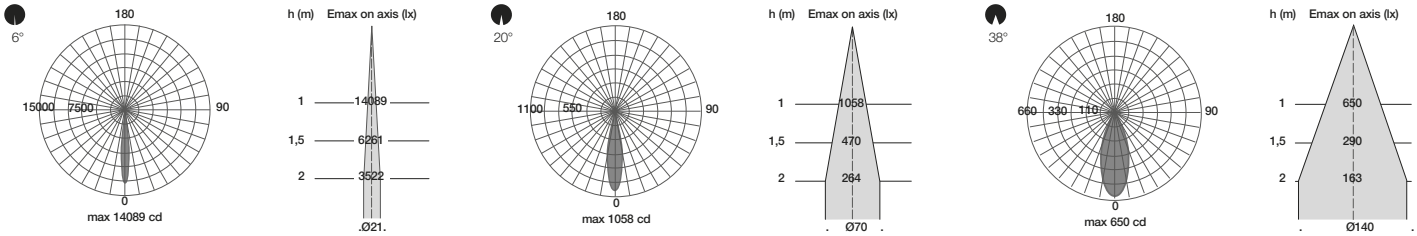
LEED® certification's credits

MATERIALS Alluminio - circuito stampato - metallo verniciato, aluminium - printed circuit board - painted metal, aluminium - circuit imprimé - metal peint, Aluminium - Leiterplat - lackiertes Metall

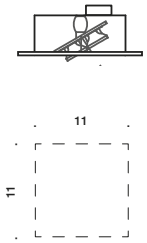


VERSION	LENS	CODE	COLOUR
4 LED LED flux 600 Lm Lamp flux 498 Lm PLED 6 W - PTOT 7 W	6°	**DD0014I__D1**	◇ 00 ◆ 09 ◇ 10 ◇ 02
	20°	**DD0014I__D2**	◇ 00 ◆ 09 ◇ 10 ◇ 02
	38°	**DD0014I__D3**	◇ 00 ◆ 09 ◇ 10 ◇ 02
2 x 4 LED LED flux 1200 Lm Lamp flux 996 Lm PLED 12 W - PTOT 14 W	6°	**DD0014L__D1**	◇ 00 ◆ 09 ◇ 10 ◇ 02
	20°	**DD0014L__D2**	◇ 00 ◆ 09 ◇ 10 ◇ 02
	38°	**DD0014L__D3**	◇ 00 ◆ 09 ◇ 10 ◇ 02
3 x 4 LED LED flux 1860 Lm Lamp flux 1495 Lm PLED 18 W - PTOT 21 W	6°	**DD0014M__D1**	◇ 00 ◆ 09 ◇ 10 ◇ 02
	20°	**DD0014M__D2**	◇ 00 ◆ 09 ◇ 10 ◇ 02
	38°	**DD0014M__D3**	◇ 00 ◆ 09 ◇ 10 ◇ 02
4 x 4 LED LED flux 2400 Lm Lamp flux 2040 Lm PLED 24 W - PTOT 28 W	6°	**DD0014N__D1**	◇ 00 ◆ 09 ◇ 10 ◇ 02
	20°	**DD0014N__D2**	◇ 00 ◆ 09 ◇ 10 ◇ 02
	38°	**DD0014N__D3**	◇ 00 ◆ 09 ◇ 10 ◇ 02

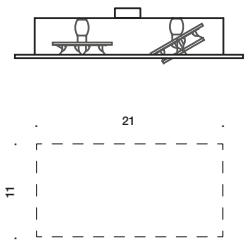
UNA PRO 4 LED – LED flux 600 Lm — 3700 K Ra 80 (3000 K Ra 85 -30% flux) - tolerance of ± 7% - IP44 -10% flux



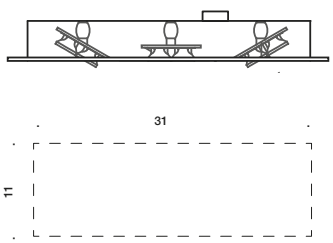
4 LED
Installation



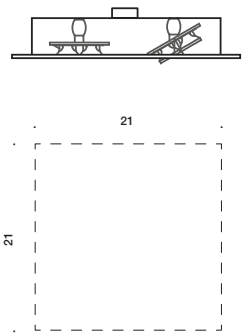
2 x 4 LED
Installation

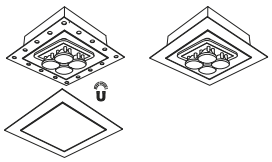


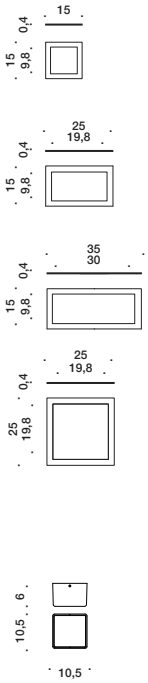
3 x 4 LED
Installation



4 x 4 LED
Installation





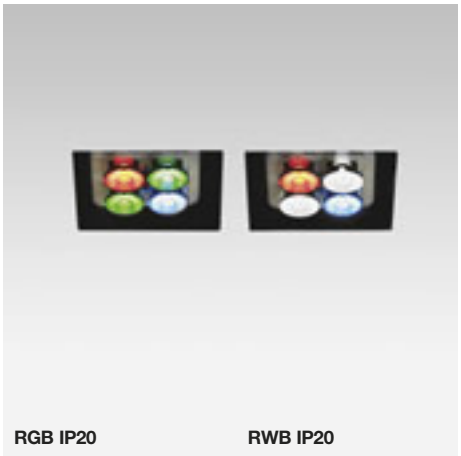


ACCESSORIES	CODE	CODE COLOUR
FRAME UNA PRO 75 ADJUSTABLE 4LED x 1	**DD0014IFR__**	◇ 00 ◆ 09 ◇ 10 ◆ 02
FRAME UNA PRO 75 ADJUSTABLE 4LED x 2	**DD0014LFR__**	◇ 00 ◆ 09 ◇ 10 ◆ 02
FRAME UNA PRO 75 ADJUSTABLE 4LED x 3	**DD0014MFR__**	◇ 00 ◆ 09 ◇ 10 ◆ 02
FRAME UNA PRO 75 ADJUSTABLE 4LED x 4	**DD0014NFR__**	◇ 00 ◆ 09 ◇ 10 ◆ 02
IP44 PLASIC COVER	**DD0014ICLT44**	

NOTE: it is necessary to order a cover IP44 for each 4 LED head

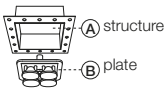
UNA PRO 75 ADJUSTABLE RGB RECESSED / UNA PRO 75 ADJUSTABLE RWB RECESSED

Patent N° **MI2010A000185**
Patent Pending N° **MI2010A000657**



RGB IP20 **RWB IP20**

STANDARD **OPTIONAL**

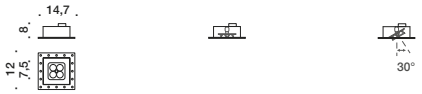


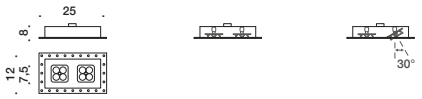
COLOUR

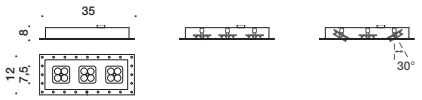
Ⓐ ◆ + Ⓑ ◇
Ⓐ ◆ + Ⓑ ◇
Ⓐ ◆ + Ⓑ ◆
Ⓐ ◆ + Ⓑ ◆

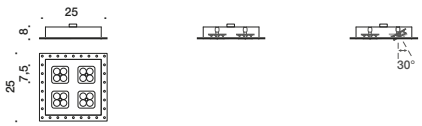
SYMBOLS IP20 F III 4 LED 0,35 kg / 2x4 LED 0,9 kg / 3x4 LED 1,4kg / 4x4 LED 1,6kg
LED Service life L70(10K) > 60500h
energy label 1
RGB: 4red + 2blue + 6green
RWB: 4red + 2blue + 6neutral white
LEED® certification's credits

MATERIALS Alluminio - circuito stampato - metallo verniciato, aluminium - printed circuit board - painted metal, aluminium - circuit imprimé - metal peint, Aluminium - Leiterplat - lackiertes Metall



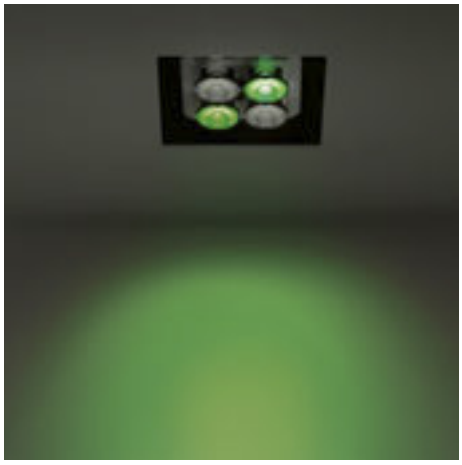




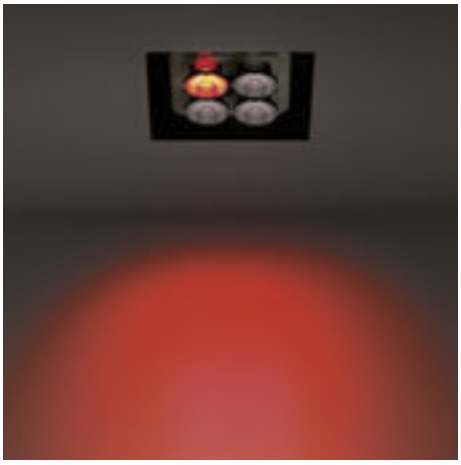


VERSION	LENS	LIGHT COLOUR	CODE	COLOUR
4 LED LED flux 286 Lm Lamp flux 238 Lm P_{LED} 5 W	6°	RGB	**DD0014I__D1R**	◇ 00 ◆ 09 ◇ 10 ◆ 02
		RWB	**DD0014I__D1X**	
	20°	RGB	**DD0014I__D2R**	◇ 00 ◆ 09 ◇ 10 ◆ 02
		RWB	**DD0014I__D2X**	
	38°	RGB	**DD0014I__D3R**	◇ 00 ◆ 09 ◇ 10 ◆ 02
		RWB	**DD0014I__D3X**	
2 x 4 LED LED flux 572 Lm Lamp flux 476 Lm P_{LED} 10 W	6°	RGB	**DD0014L__D1R**	◇ 00 ◆ 09 ◇ 10 ◆ 02
		RWB	**DD0014L__D1X**	
	20°	RGB	**DD0014L__D2R**	◇ 00 ◆ 09 ◇ 10 ◆ 02
		RWB	**DD0014L__D2X**	
	38°	RGB	**DD0014L__D3R**	◇ 00 ◆ 09 ◇ 10 ◆ 02
		RWB	**DD0014L__D3X**	
3 x 4 LED LED flux 858 Lm Lamp flux 714 Lm P_{LED} 15 W	6°	RGB	**DD0014M__D1R**	◇ 00 ◆ 09 ◇ 10 ◆ 02
		RWB	**DD0014M__D1X**	
	20°	RGB	**DD0014M__D2R**	◇ 00 ◆ 09 ◇ 10 ◆ 02
		RWB	**DD0014M__D2X**	
	38°	RGB	**DD0014M__D3R**	◇ 00 ◆ 09 ◇ 10 ◆ 02
		RWB	**DD0014M__D3X**	
4 x 4 LED LED flux 1144 Lm Lamp flux 952 Lm P_{LED} 20 W	6°	RGB	**DD0014N__D1R**	◇ 00 ◆ 09 ◇ 10 ◆ 02
		RWB	**DD0014N__D1X**	
	20°	RGB	**DD0014N__D2R**	◇ 00 ◆ 09 ◇ 10 ◆ 02
		RWB	**DD0014N__D2X**	
	38°	RGB	**DD0014N__D3R**	◇ 00 ◆ 09 ◇ 10 ◆ 02
		RWB	**DD0014N__D3X**	

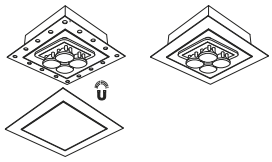
RGB green

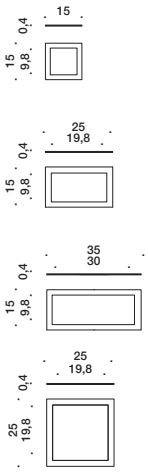


RGB red

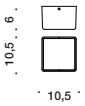


RGB blu





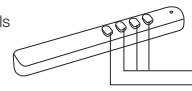
ACCESSORIES	CODE	CODE COLOUR
FRAME UNA PRO 75 ADJUSTABLE 4LED x 1	**DD0014IFR__**	◇ 00 ◆ 09 ◇ 10 ◇ 02
FRAME UNA PRO 75 ADJUSTABLE 4LED x 2	**DD0014LFR__**	◇ 00 ◆ 09 ◇ 10 ◇ 02
FRAME UNA PRO 75 ADJUSTABLE 4LED x 3	**DD0014MFR__**	◇ 00 ◆ 09 ◇ 10 ◇ 02
FRAME UNA PRO 75 ADJUSTABLE 4LED x 4	**DD0014NFR__**	◇ 00 ◆ 09 ◇ 10 ◇ 02



IP44 PLASIC COVER	**DD0014ICLT44**

NOTE: it is necessary to order a cover IP44 for each head 4 LED

EASY
IR remote control
separate management of the three channels



IR remote control (not included, to be ordered separately)	**CODE**
** **programmes** colour/white * **colour control (RGB/RWB)** on/off dimming	**DDRGB001**

ADVANCED
Dali or DMX
RWB: white tunable system whit preset color temperatures from 2700 to 6500 K or separate management of the three channels.
RGB: System whit preset color scenery or separate management of the three channels

RWB red

RWB blu

RWB white

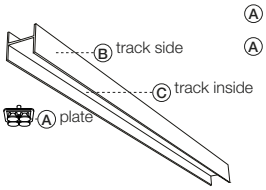
UNA PRO TRACK SUSPENSION / CEILING

Patent N° **MI2010A000185**

UNA PRO TRACK SUSPENSION / CEILING

Patent N° **MI2010A000185**

	STANDARD	OPTIONAL
LED	3700 K Ra 80	3000 K Ra 85
(T)	not dimmable	dimmable: 1...10V, dali
HOLDER		



COLOUR

(A) ◇ + (B) ◇ + (C) ◆

(A) + (B) + (C) Ral colours

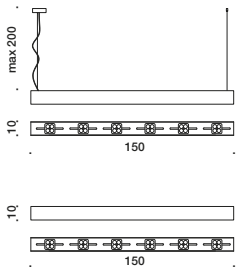
SYMBOLS IP20 (F) 10 kg

LED Service life L70(10K) > 60500h

energy label 1

LEED® certification's credits

MATERIALS Alluminio - circuito stampato - metallo verniciato, aluminium - printed circuit board - painted metal, aluminium - circuit imprimé - metal peint, Aluminium - Leiterplat - lackiertes Metall

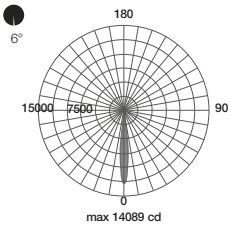


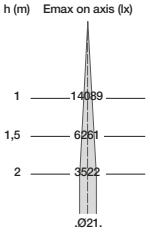
VERSION	LENS	COLOUR	CODE
6 x 4 LED suspension LED flux 3600 Lm Lamp flux 2988 Lm PLED 36 W - PTOT 42 W	6°	(A) ◇ + (B) ◇ + (C) ◆	**DD0014Z00D1**
	20°	(A) ◇ + (B) ◇ + (C) ◆	**DD0014Z00D2**
	38°	(A) ◇ + (B) ◇ + (C) ◆	**DD0014Z00D3**
6 x 4 LED ceiling LED flux 3600 Lm Lamp flux 2988 Lm PLED 36 W - PTOT 42 W	6°	(A) ◇ + (B) ◇ + (C) ◆	**DD0014Y00D1**
	20°	(A) ◇ + (B) ◇ + (C) ◆	**DD0014Y00D2**
	38°	(A) ◇ + (B) ◇ + (C) ◆	**DD0014Y00D3**

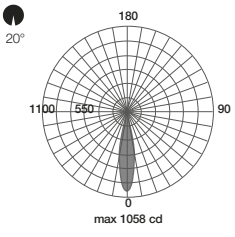
NOTE: optional version: n x 4 LED

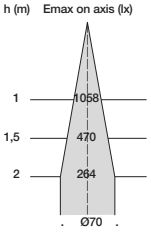
measures in cm

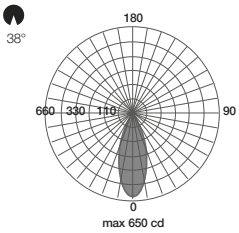
UNA PRO 4 LED – LED flux 600 Lm — 3700 K Ra 80 (3000 K Ra 85 -30% flux) - tolerance of ± 7%

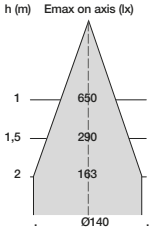












UNA PRO 75

UNA PRO 75 OVERVIEW

recessed

. 4 LED P_{TOT} 7W
. LENS **6° / 20° / 38°**

IP20

3700K Ra 80
not dimmable

OPTIONAL

3000K Ra 85
dimmable 1..10V+push, dali

pag. **90**

recessed diffuse

. 4 LED P_{TOT} 7W

IP44

3700K Ra 80
not dimmable

OPTIONAL

3000K Ra 85
dimmable 1..10V+push, dali

pag. **91**

POWER CIRCUIT

UNA PRO 75 efficiency

** data declared in producers catalogues

UNA PRO 75	LENS	η lamping Lm/W**	R	η lamp Lm/W
4 LED LED flux 600 Lm P_{LED} 6 W - P_{TOT} 7 W	**6°**	**100**	**83%**	83
	20°	**100**	**83%**	83
	38°	**100**	**83%**	83
	diffuse	**100**	**85%**	55

UNA PRO 75

4 LED
P_{TOT} 7 W - lamp flux 498 Lm

UNA PRO 75 DIFFUSE

4 LED
P_{TOT} 7 W - lamp flux 510 Lm

UNA PRO 75

Patent N° **MI2010A000185**

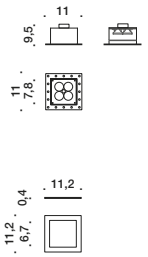
	STANDARD	OPTIONAL
LED	3700 K Ra 80	3000 K Ra 85
Ⓣ	not dimmable	dimmable: 1...10V+push, dali
HOLDER		

COLOUR

◆ ◇ ◇ ◇

SYMBOLS IP20 0,45 kg
LED Service life L70(10K) > 60500h
energy label 1
LEED® certification's credits

MATERIALS Alluminio anodizzato o verniciato - circuito stampato, anodized or painted aluminium - printed circuit board, aluminium anodisé ou peint - circuit imprimé, eloxiertes Aluminium oder lackiert - Leiterplat

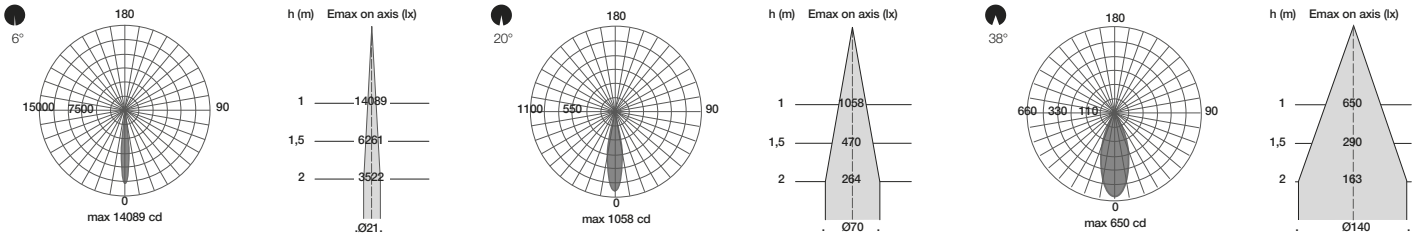


measures in cm

VERSION	LENS	CODE	COLOUR
4 LED LED flux 600 Lm Lamp flux 498 Lm P_{LED} 6 W - P_{TOT} 7 W	**6°**	**DD0017B__D1**	◇ 00 ◆ 09 ◇ 10 ◇ 02
	20°	**DD0017B__D2**	◇ 00 ◆ 09 ◇ 10 ◇ 02
	38°	**DD0017B__D3**	◇ 00 ◆ 09 ◇ 10 ◇ 02

ACCESSORIES	CODE	CODE COLOUR
FRAME UNA PRO 75	**DD0017BFR__**	◇ 00 ◆ 09 ◇ 10 ◇ 02

UNA PRO 4 LED – LED flux 600 Lm — 3700 K Ra 80 (3000 K Ra 85 -30% flux) - tolerance of ± 7%



UNA PRO 75 DIFFUSE

Patent N° **MI2010A000185**

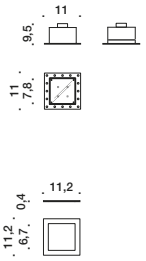
	STANDARD	OPTIONAL
LED	3700 K Ra 80	3000 K Ra 85
(T)	not dimmable	dimmable: 1...10V+push, dali
HOLDER		

COLOUR

◆ ◇ ◇ ◇

SYMBOLS IP20 0,45 kg
LED Service life L70(10K) > 60500h
energy label 1
LEED® certification's credits

MATERIALS Alluminio anodizzato o verniciato - circuito stampato, anodized or painted aluminium - printed circuit board, aluminium anodisé ou peint - circuit imprimé, eloxiertes Aluminium oder lackiert - Leiterplat

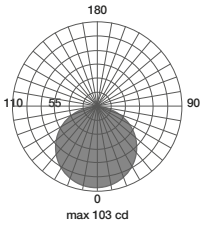


measures in cm

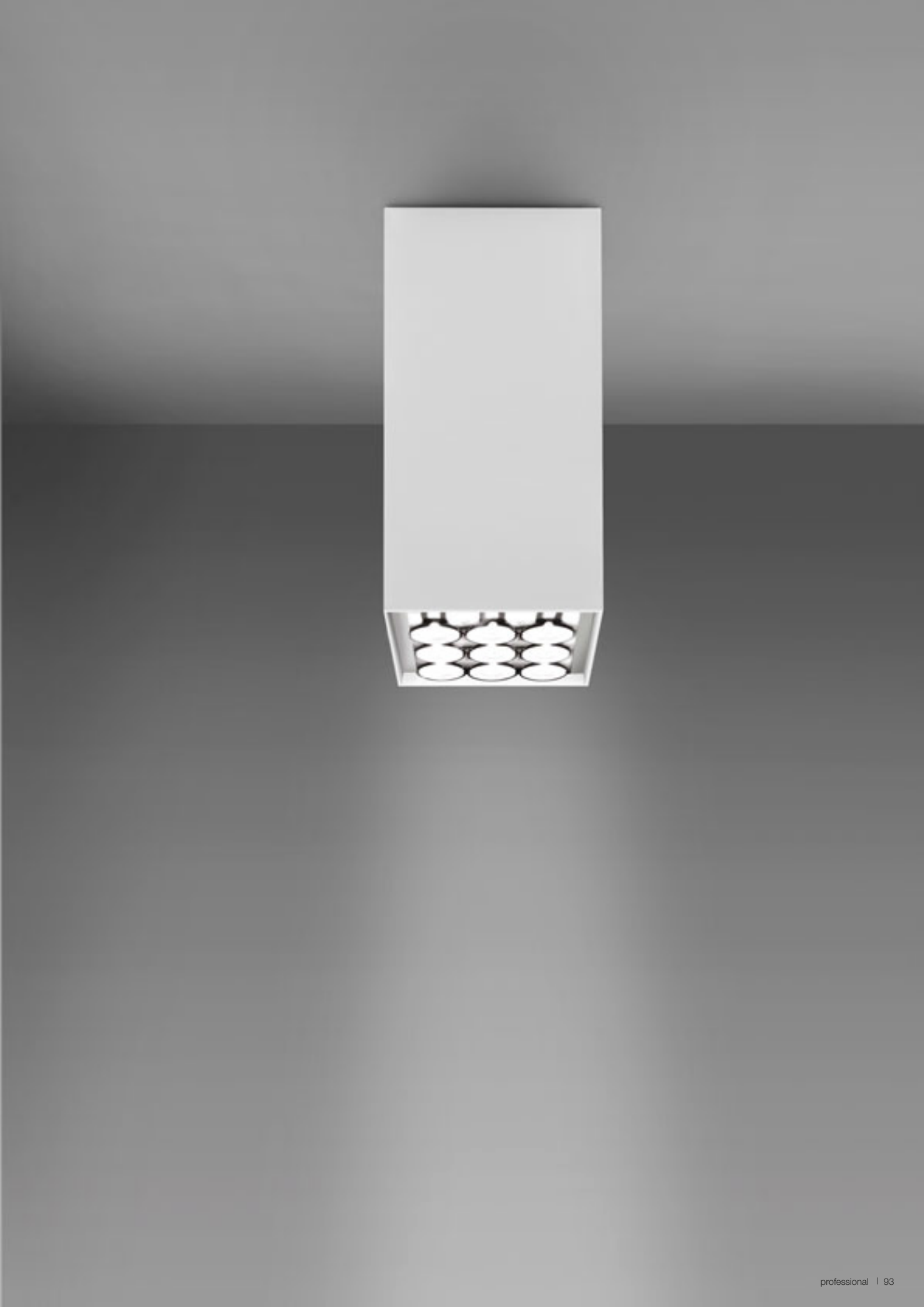
VERSION	CODE	COLOUR
4 LED LED flux 600 Lm Lamp flux 510 Lm P_{LED} 6 W - P_{TOT} 7 W	**DD0018B__**	◇ 00 ◆ 09 ◇ 10 ◇ 02

ACCESSORIES	CODE	CODE COLOUR
FRAME UNA PRO 75	**DD0017BFR__**	◇ 00 ◆ 09 ◇ 10 ◇ 02

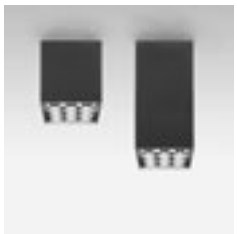
UNA PRO 4 LED – LED flux 600 Lm — 3700 K Ra 80 (3000 K Ra 85 -30% flux) - tolerance of ± 7%



UNA PRO 150



UNA PRO 150 OVERVIEW



ceiling

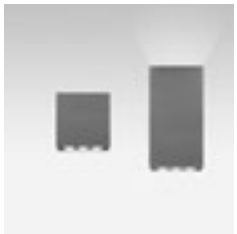
. 9 LED PTOT 10W
. LENS **6°** / **20°** / **38°**

IP20

3700K Ra 80
not dimmable

OPTIONAL
3000K Ra 85
dimmable 1..10V+push, dali

pag. **102**



wall

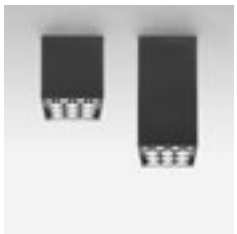
. 9 LED PTOT 10W / **2 x 9 LED** PTOT 21W
. LENS **6°** / **20°** / **38°**
*

IP20

3700K Ra 80
not dimmable

OPTIONAL
3000K Ra 85
dimmable 1..10V+push, dali

pag. **98**



celing IP65

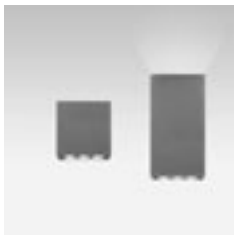
. 9 LED PTOT 10W
. LENS **6°** / **20°** / **38°**

IP65

3700K Ra 80
not dimmable

OPTIONAL
3000K Ra 85
dimmable 1..10V+push, dali

pag. **108**



wall IP65

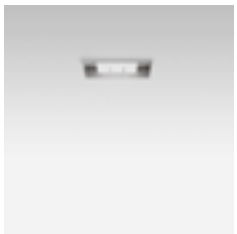
. 9 LED PTOT 10W
. LENS **6°** / **20°** / **38°**

IP65

3700K Ra 80
not dimmable

OPTIONAL
3000K Ra 85
dimmable 1..10V+push, dali

pag. **106**



recessed

. 9 LED PTOT 10W
. LENS **6°** / **20°** / **38°**

IP20

3700K Ra 80
not dimmable

OPTIONAL
3000K Ra 85
dimmable 1..10V+push, dali

pag. **110**

NOTE: the codes refer to the standard version equipped by neutral white LED 3700K and black holders.
To compose the complete code add the colour numbers in the spaces __ in the lamp code.

UNA PRO 150

Una Pro 150 parte dalla tecnologia brevettata di Una Pro per offrire con soli 9 led, e quindi con consumi estremamente ridotti, elevate performance luminose.
La possibilità di gestire fasci luminosi con ampiezze differenti grazie all'intercambiabilità delle lenti si combina ad una presenza più evidente dell'apparecchio nello spazio che consente nella versione a parete anche una doppia emissione.
Una Pro offre anche la possibilità di applicazione in esterni grazie alle versioni con protezione IP65.

Una Pro 150, qui vient de la technologie brevetée de Una Pro, offre des performances lumineuses élevées avec 9 LED seulement, d'où une consommation extrêmement réduite.
L'interchangeabilité des lentilles permet de gérer des faisceaux lumineux ayant des ampleurs différentes. La présence du luminaire dans l'espace est plus évidente ; par ailleurs la version murale offre une double émission lumineuse.
Le luminaire Una Pro peut également être installé à l'extérieur grâce aux versions à protection IP65.

Una Pro 150 stems from Una Pro patented design and only requires 9 LEDs to provide excellent lighting performance with extremely low power consumption.
This light system provides light beams of various widths thanks to interchangeable lenses. This versatile feature is enhanced by the unique design of a luminaire that stands out in its setting and provides double light emission in its wall-mount model.
Una Pro IP65-protection models can also be installed outdoors.

Una Pro 150 wurde auf der Grundlage der patentierten Technologie von Una Pro entworfen, um mit nur 9 LEDs und sehr geringem Verbrauch hohe Lichtleistungen zu erzielen.
Die unterschiedlichen Größen der Lichtbündel und die Austauschbarkeit der Linsen werden für eine immer markantere Präsenz des Geräts im Raum kombiniert, damit auch in der Wandausführung eine doppelte Emission möglich ist.
Die Ausführungen von Una Pro mit Schutzgrad IP65 können auch im Freien verwendet werden.

UNA PRO 150 CEILING

9 LED
P_{TOT} 10 W - lamp flux 747 Lm

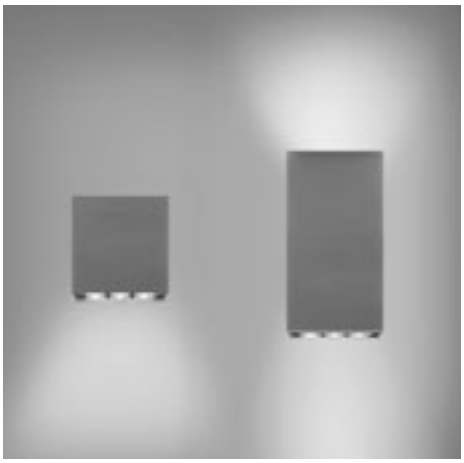
UNA PRO 150 WALL

9 LED
P_{TOT} 10 W - lamp flux 747 Lm

2 x 9 LED
P_{TOT} 21 W - lamp flux 1495 Lm

UNA PRO 150 RECESSED

9 LED
P_{TOT} 10 W - lamp flux 747 Lm



UNA PRO 150 LENSES

UNA PRO 150 può montare led di diverse temperature di colore (neutral o warm white) per garantire la qualità della luce adatta ad ogni specifica applicazione, su questi si applicano tre diversi set di lenti TIR intercambiabili infinite volte in modo elementare, senza l'ausilio di nessuno strumento, anche ad installazione avvenuta che permettono di ottenere da un unico corpo lampada tre diverse emissioni di 6°, 20°, 38° con una precisione di controllo dell'apertura del fascio luminoso decisamente superiore rispetto ai tradizionali faretti alogeni (margine di scostamento di 1°-1,5°). Le lenti TIR sono componenti ottici che, attraverso il principio della riflessione interna totale convogliano l'85% del flusso luminoso del LED sul compito visivo.
Hanno la capacità di rendere non visibile la sorgente luminosa, in questo modo la luminanza della superficie emissiva, pur essendo superiore alle 3000 cd/m2 @ 65° è comunque di tipo "comfort".

UNA PRO 150 can feature LEDs with various colour temperatures (neutral or warm white) so to guarantee the perfect lighting for each specific application. Three different TIR lens sets are fitted on these LEDs: they can be easily exchanged every time you wish without the need for any instrument, even once the installation is complete, and they allow to obtain from a single lamp three different 6° 20° 38° light emissions, featuring a beam angle control precision absolutely improved compared to the traditional halogen downlights (1°-1,5° deviation). TIR lenses are optic components that convey 85% of the LED light beam onto the visual task by relying on the principle of total internal reflection.
Their feature is to avoid visible light sources, thus providing comfortable light surface luminance, while being over 3,000 cd/m2 @ 65°.

UNA PRO 150 peut être équipée de leds de différentes températures de couleur (neutre ou warm white) assurant une qualité de lumière parfaite pour toutes les applications spécifiques, sur celles-ci, il est possible d'appliquer trois différents sets de lentilles TIR interchangeables à l'infini et de façon très simple, sans qu'aucun outil ne soit nécessaire, même lorsque l'installation est achevée, permettant d'obtenir un corps de lampe unique avec trois émissions différentes, de 6°, 20° et 38°, et un contrôle précis de l'ouverture du faisceau lumineux nettement supérieure par rapport aux spots halogènes traditionnels (marge d'écartement de 1°-1,5°). Les lentilles TIR sont des composants optiques qui, à travers le principe de la réflexion interne totale, dirigent 85% du flux lumineux de la LED sur la tâche visuelle.
Elles ont la capacité de rendre invisible la source lumineuse ainsi, la luminance de la surface émissive, quoique que supérieure à 3000 cd/m2 @ 65°, assure le confort visuel.

UNA PRO 150 kann LEDs mit unterschiedlichen Farbtemperaturen montieren (neutral oder warmes Weiß). Um die korrekte Lichtqualität für jede spezifische Anwendung gewährleisten zu können, werden drei verschiedene Linsensets verwendet, die auch nach der Installation auf einfache Weise ohne Hilfsmittel beliebig oft untereinander vertauscht werden können, wodurch man mit einem einzigen Lampenkörper drei verschiedene Emissionen mit 6°, 20° und 38° und einer präzisen Öffnungskontrolle des Lichtbündels weit über herkömmliche Halogenstrahler (Abweichungsmarge 1°–1,5°) erhält.
Die Linsen TIR sind optische Komponenten, die durch das Prinzip der Gesamtinnenrückstrahlung 85 % des Lichtstroms des LEDS auf die visuelle Aufgabe leiten.
Sie können die Lichtquelle unsichtbar machen. Obwohl die Luminanz der Emissionsfläche über 3000 cd/m2 @ 65° liegt, sorgt sie auf diese Weise immer für Sichtkomfort.

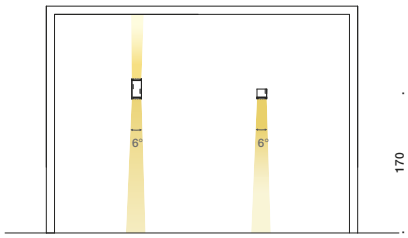
UNA PRO 150 efficiency

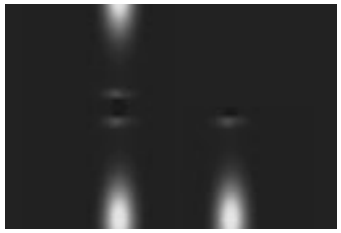
** data declared in producers catalogue

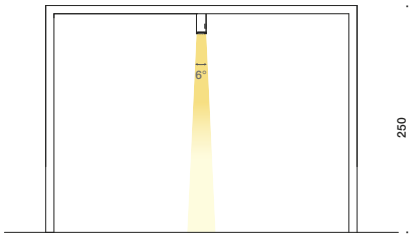
UNA PRO	LENS	η lamping Lm/W**	R	η lamp Lm/W
9 LED LED flux 900 Lm Lamp flux 747 Lm P_{LED} 9 W - P_{TOT} 10 W	**6°**	100	83%	83
	20°	100	83%	83
	38°	100	83%	83

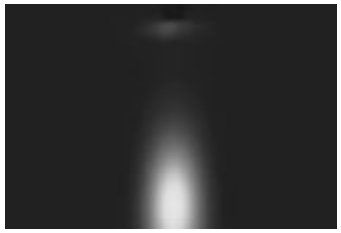
UNA PRO 150 BEAM ANGLE

6° narrow

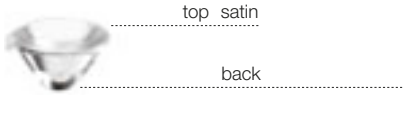


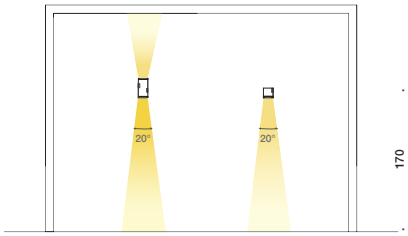


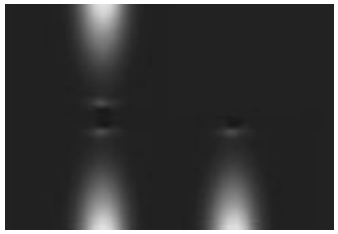


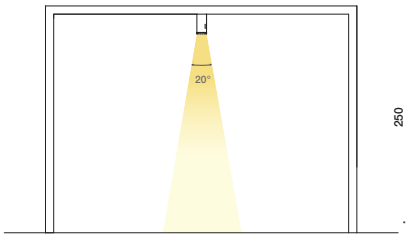


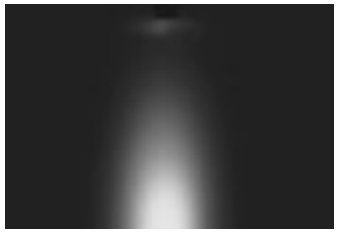
20° medium



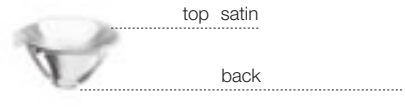


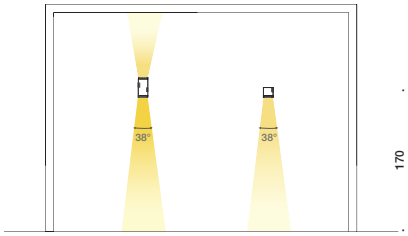


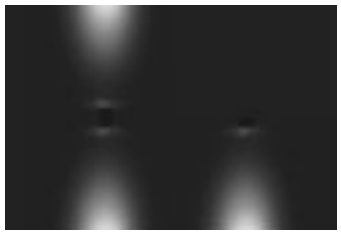


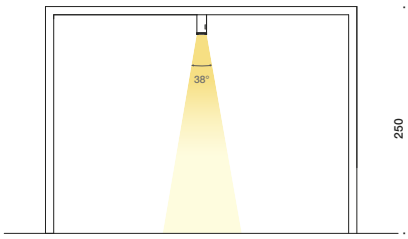


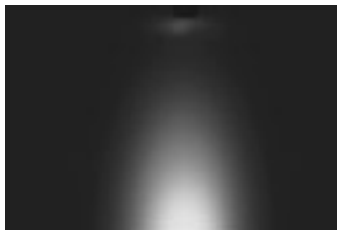
38° wide





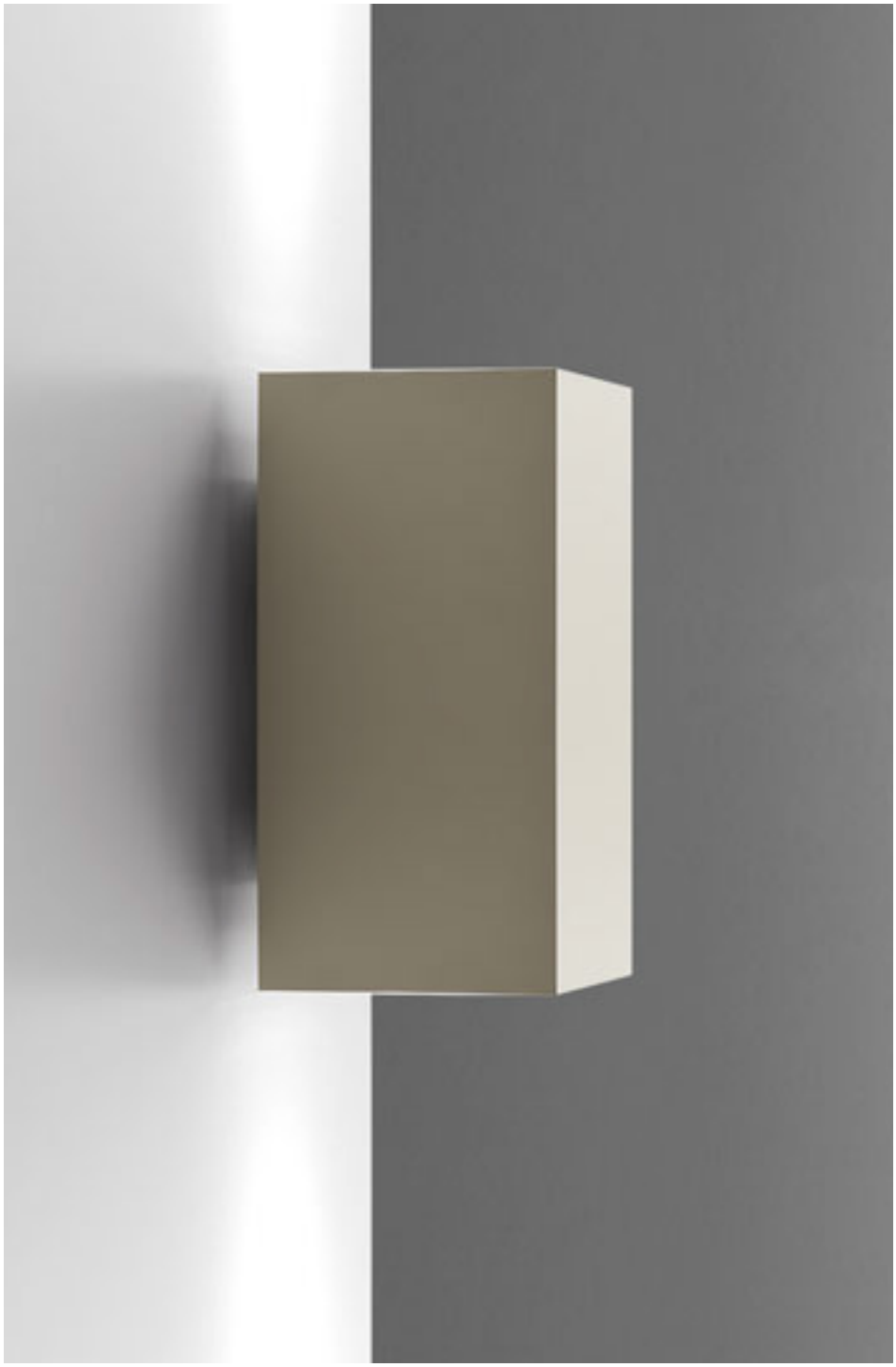


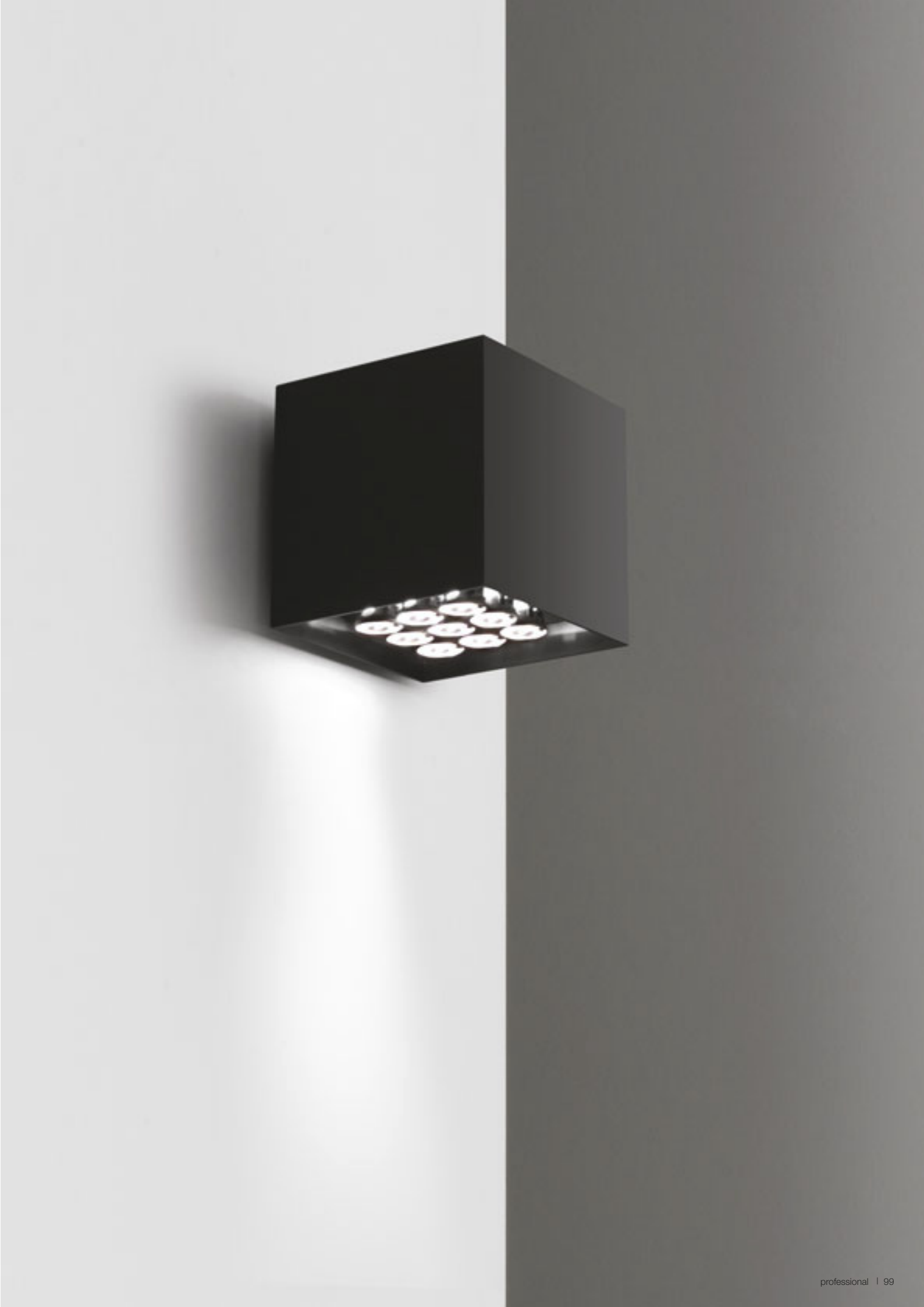




UNA PRO 150 WALL

Patent N° **MI2010A000185**

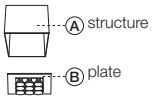




UNA PRO 150 WALL

Patent N° **MI2010A000185**

	STANDARD	OPTIONAL
LED	3700 K Ra 80	3000 K Ra 85
(T)	not dimmable	dimmable: 1...10V+push, dali
HOLDER		

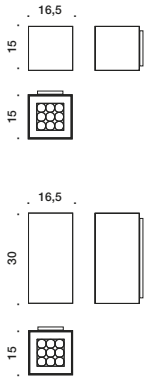


COLOUR

A ◇ + B ◇
A ◇ + B ◇
A ◆ + B ◆
A ◇ + B ◇

SYMBOLS IP20 F 15x15 1,2 kg / 15x30 2,3 kg
LED Service life L70(10K) > 60500h
energy label 1
LEED® certification's credits

MATERIALS Alluminio anodizzato o verniciato - circuito stampato, anodized or painted aluminium - printed circuit board, aluminium anodisé ou peint - circuit imprimé, eloxiertes Aluminium oder lackiert - Leiterplat

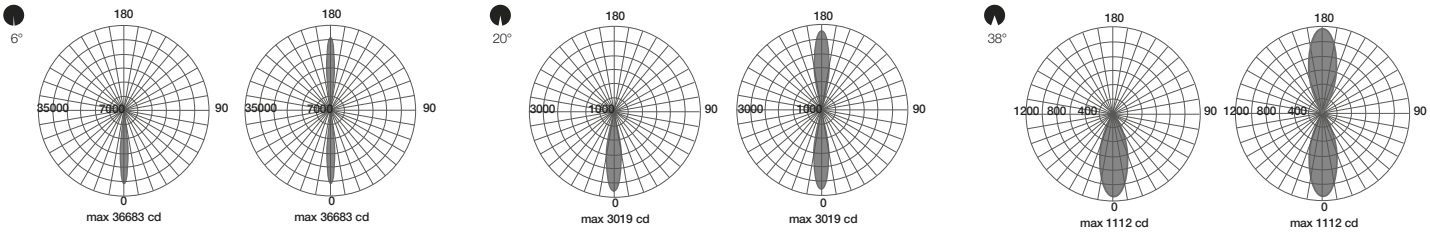


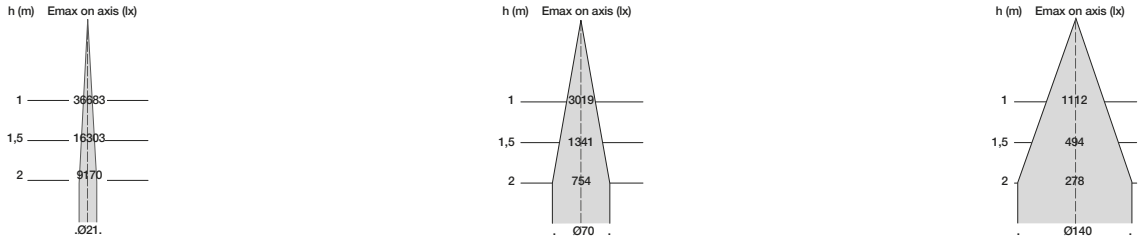
measures in cm

VERSION	LENS	IP	CODE	COLOUR
9 LED 15x15 LED flux 900 Lm Lamp flux 747 Lm P_{LED} 9 W - P_{TOT} 10 W	**6°**	IP20	**DD0016A__B1C**	◇ 00 ◆ 09 ◇ 10 ◇ 02
	20°	IP20	**DD0016A__B2C**	◇ 00 ◆ 09 ◇ 10 ◇ 02
	38°	IP20	**DD0016A__B3C**	◇ 00 ◆ 09 ◇ 10 ◇ 02
2 x 9 LED 15x30 LED flux 1800 Lm Lamp flux 1495 Lm P_{LED} 18 W - P_{TOT} 21 W	**6°**	IP20	**DD0016A__B1L**	◇ 00 ◆ 09 ◇ 10 ◇ 02
	20°	IP20	**DD0016A__B2L**	◇ 00 ◆ 09 ◇ 10 ◇ 02
	38°	IP20	**DD0016A__B3L**	◇ 00 ◆ 09 ◇ 10 ◇ 02

UNA PRO 9 LED – LED flux 900 Lm — 3700 K Ra 80 (3000 K Ra 85 -30% flux) - tolerance of ± 7%

UNA PRO 9 LED x 2 – LED flux 1800 Lm — 3700 K Ra 80 (3000 K Ra 85 -30% flux) - tolerance of ± 7%





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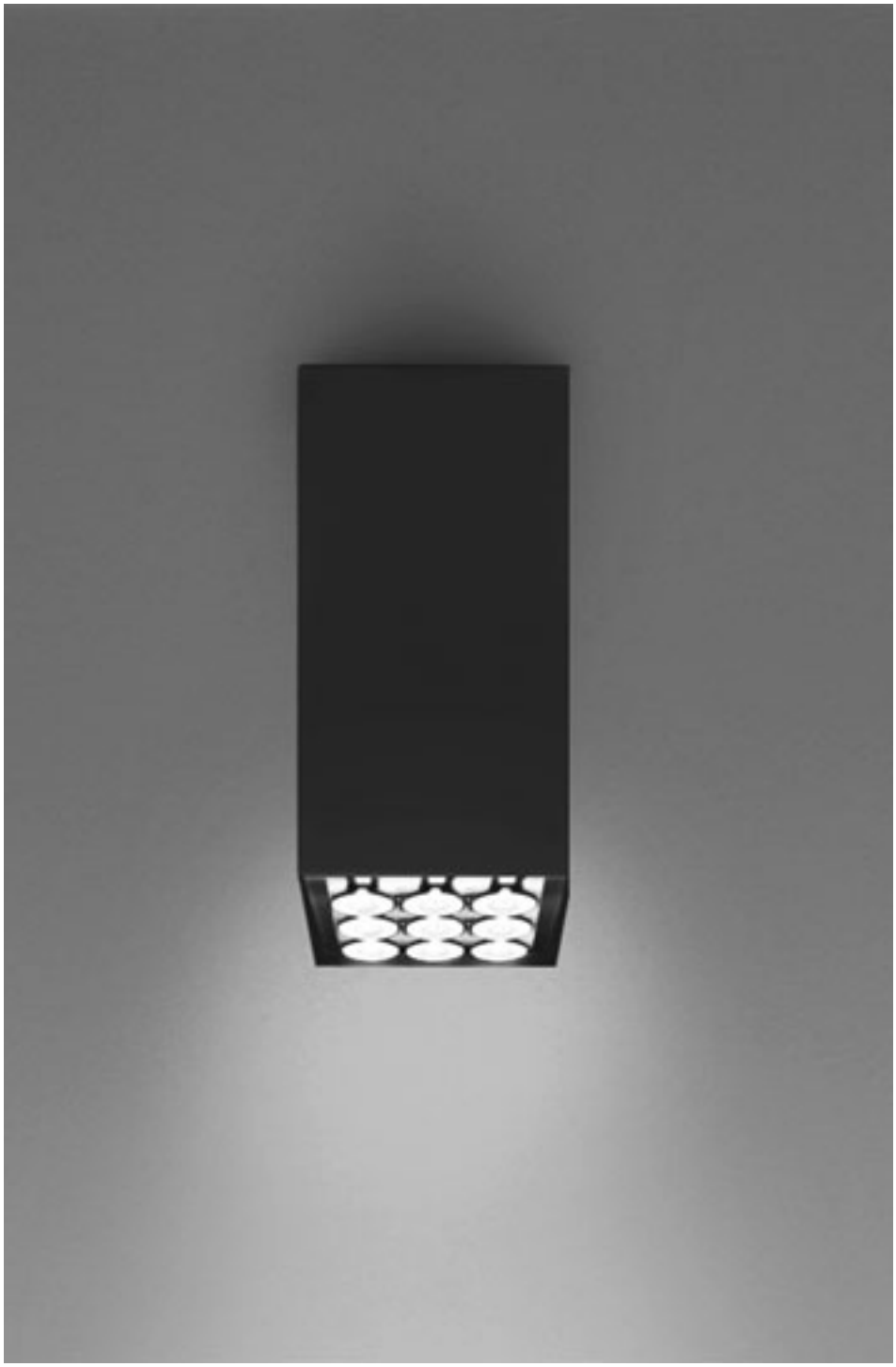
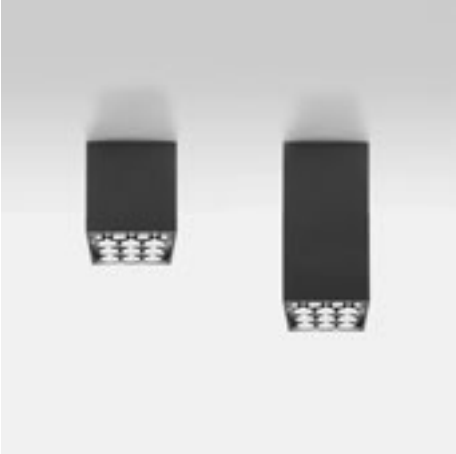
UNA PRO 150 CEILING

Patent N° **MI2010A000185**

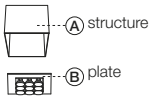


UNA PRO 150 CEILING

Patent N° **MI2010A000185**



	STANDARD	OPTIONAL
LED	3700 K Ra 80	3000 K Ra 85
(T)	not dimmable	dimmable: 1...10V+push, dali
HOLDER		

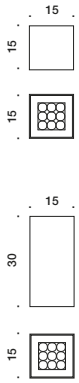


COLOUR

A ◇ + B ◇
A ◇ + B ◇
A ◆ + B ◆
A ◇ + B ◇

SYMBOLS IP20 15x15 1,1 kg / 15x30 1,8 kg
LED Service life L70(10K) > 60500h
energy label 1
LEED® certification's credits

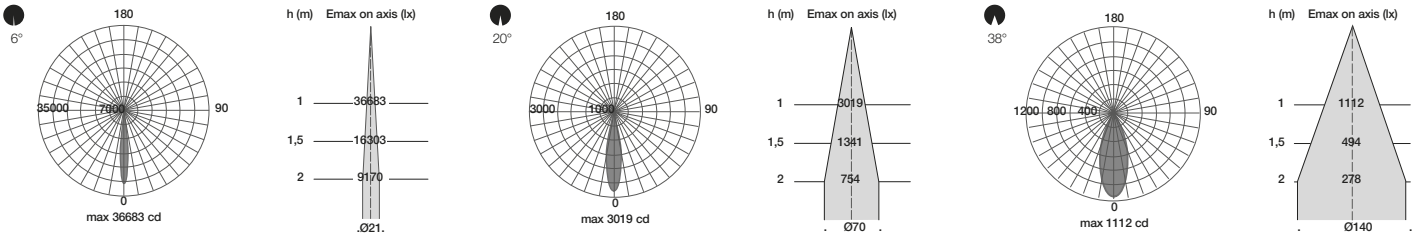
MATERIALS Alluminio anodizzato o verniciato - circuito stampato, anodized or painted aluminium - printed circuit board, aluminium anodisé ou peint - circuit imprimé, eloxiertes Aluminium oder lackiert - Leiterplat



measures in cm

VERSION	LENS	IP	CODE	COLOUR
9 LED 15x15 LED flux 900 Lm Lamp flux 747 Lm P_{LED} 9 W - P_{TOT} 10 W	**6°**	IP20	**DD0016A__A1C**	◇ 00 ◆ 09 ◇ 10 ◇ 02
	20°	IP20	**DD0016A__A2C**	◇ 00 ◆ 09 ◇ 10 ◇ 02
	38°	IP20	**DD0016A__A3C**	◇ 00 ◆ 09 ◇ 10 ◇ 02
9 LED 15x30 LED flux 900 Lm Lamp flux 747 Lm P_{LED} 9 W - P_{TOT} 10 W	**6°**	IP20	**DD0016A__A1L**	◇ 00 ◆ 09 ◇ 10 ◇ 02
	20°	IP20	**DD0016A__A2L**	◇ 00 ◆ 09 ◇ 10 ◇ 02
	38°	IP20	**DD0016A__A3L**	◇ 00 ◆ 09 ◇ 10 ◇ 02

UNA PRO 9 LED – LED flux 900 Lm — 3700 K Ra 80 (3000 K Ra 85 -30% flux) - tolerance of ± 7%

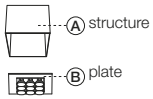


UNA PRO 150 IP65 WALL

Patent N° **MI2010A000185**

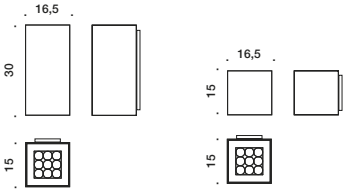
	STANDARD	OPTIONAL
LED	3700 K Ra 80	3000 K Ra 85
(T)	not dimmable	dimmable: 1...10V+push, dali
HOLDER		

SYMBOLS IP65 (F) (⏚) 15x15 1,2 kg / 15x30 2,3 kg
LED Service life L70(10K) > 60500h
energy label 1
LEED® certification's credits



COLOUR

(A) ◇ + (B) ◇
(A) ◇ + (B) ◇
(A) ◆ + (B) ◆
(A) ◇ + (B) ◇



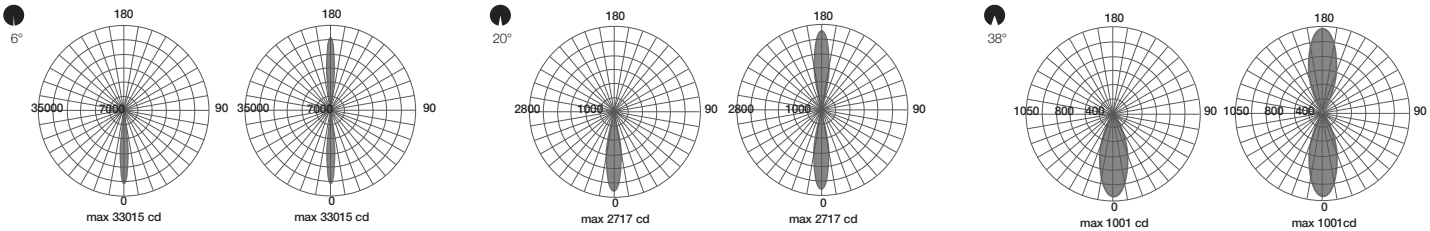
MATERIALS Alluminio anodizzato o verniciato - circuito stampato, anodized or painted aluminium - printed circuit board, aluminium anodisé ou peint - circuit imprimé, eloxiertes Aluminium oder lackiert - Leiterplat

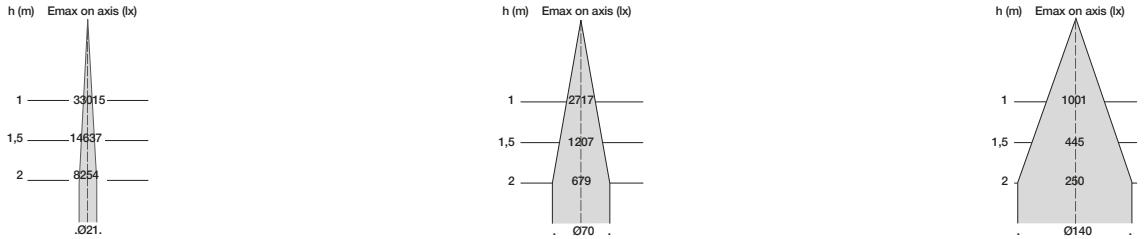
VERSION	LENS	IP	CODE	COLOUR
9 LED 15x15 LED flux 900 Lm Lamp flux 657 Lm P_{LED} 9 W - P_{TOT} 10 W	**6°**	IP65	**DD0016A__B1CIP**	◇ 00 ◆ 09 ◇ 10 ◇ 02
	20°	IP65	**DD0016A__B2CIP**	◇ 00 ◆ 09 ◇ 10 ◇ 02
	38°	IP65	**DD0016A__B3CIP**	◇ 00 ◆ 09 ◇ 10 ◇ 02
2 x 9 LED 15x30 LED flux 1800 Lm Lamp flux 1314 Lm P_{LED} 18 W - P_{TOT} 21 W	**6°**	IP65	**DD0016A__B1LIP**	◇ 00 ◆ 09 ◇ 10 ◇ 02
	20°	IP65	**DD0016A__B2LIP**	◇ 00 ◆ 09 ◇ 10 ◇ 02
	38°	IP65	**DD0016A__B3LIP**	◇ 00 ◆ 09 ◇ 10 ◇ 02

measures in cm

UNA PRO 9 LED – LED flux 900 Lm — 3700 K Ra 80 (3000 K Ra 85 -30% flux) - tolerance of ± 7%

UNA PRO 9 LED x 2 – LED flux 1800 Lm — 3700 K Ra 80 (3000 K Ra 85 -30% flux) - tolerance of ± 7%

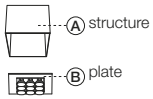




UNA PRO 150 IP65 CEILING

Patent N° **MI2010A000185**

	STANDARD	OPTIONAL
LED	3700 K Ra 80	3000 K Ra 85
(T)	not dimmable	dimmable: 1...10V+push, dali
HOLDER		

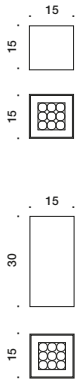


COLOUR

A ◇ + B ◇
A ◇ + B ◇
A ◆ + B ◆
A ◇ + B ◇

SYMBOLS IP65 15x15 1,1 kg / 15x30 1,8 kg
LED Service life L70(10K) > 60500h
energy label 1
LEED® certification's credits

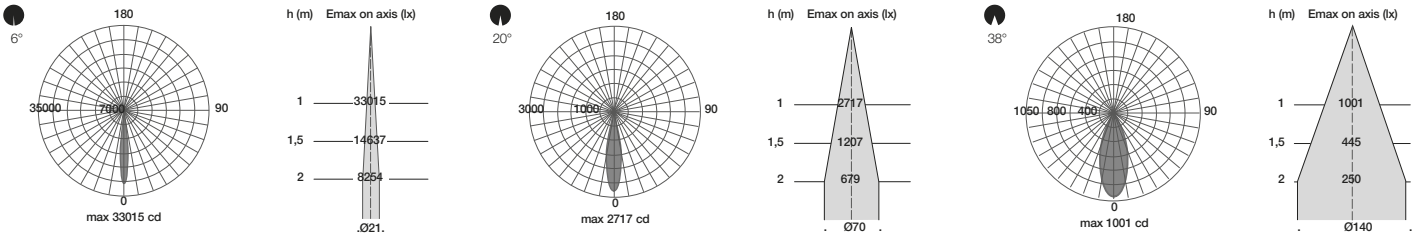
MATERIALS Alluminio anodizzato o verniciato - circuito stampato, anodized or painted aluminium - printed circuit board, aluminium anodisé ou peint - circuit imprimé, eloxiertes Aluminium oder lackiert - Leiterplat



measures in cm

VERSION	LENS	IP	CODE	COLOUR
9 LED 15x15 LED flux 900 Lm Lamp flux 657 Lm P_{LED} 9 W - P_{TOT} 10 W	**6°**	IP65	**DD0016A__A1CIP**	◇ 00 ◆ 09 ◇ 10 ◇ 02
	20°	IP65	**DD0016A__A2CIP**	◇ 00 ◆ 09 ◇ 10 ◇ 02
	38°	IP65	**DD0016A__A3CIP**	◇ 00 ◆ 09 ◇ 10 ◇ 02
9 LED 15x30 LED flux 900 Lm Lamp flux 657 Lm P_{LED} 9 W - P_{TOT} 10 W	**6°**	IP65	**DD0016A__A1LIP**	◇ 00 ◆ 09 ◇ 10 ◇ 02
	20°	IP65	**DD0016A__A2LIP**	◇ 00 ◆ 09 ◇ 10 ◇ 02
	38°	IP65	**DD0016A__A3LIP**	◇ 00 ◆ 09 ◇ 10 ◇ 02

UNA PRO 9 LED – LED flux 900 Lm — 3700 K Ra 80 (3000 K Ra 85 -30% flux) - tolerance of ± 7%



UNA PRO 150 RECESSED

Patent N° **MI2010A000185**

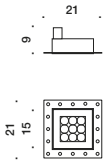
	STANDARD	OPTIONAL
LED	3700 K Ra 80	3000 K Ra 85
(T)	not dimmable	dimmable: 1...10V+push, dali
HOLDER		

COLOUR

◆ ◈ ◇ ◈

SYMBOLS IP20 0,4 kg
LED Service life L70(10K) > 60500h
energy label 1
LEED® certification's credits

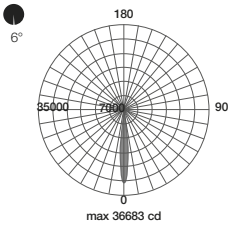
MATERIALS Alluminio anodizzato o verniciato - circuito stampato, anodized or painted aluminium - printed circuit board, aluminium anodisé ou peint - circuit imprimé, eloxiertes Aluminium oder lackiert - Leiterplat

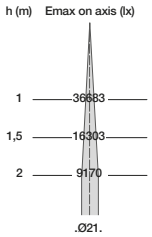


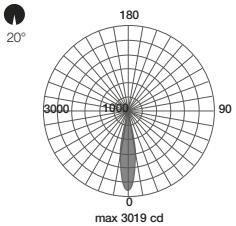
measures in cm

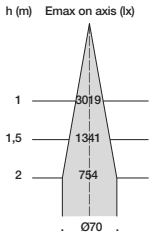
VERSION	LENS	CODE	COLOUR
9 LED LED flux 900 Lm Lamp flux 747 Lm P_{LED} 9 W - P_{TOT} 10 W	**6°**	**DD0016A__C1**	◈ 00 ◆ 09 ◇ 10 ◈ 02
	20°	**DD0016A__C2**	◈ 00 ◆ 09 ◇ 10 ◈ 02
	38°	**DD0016A__C3**	◈ 00 ◆ 09 ◇ 10 ◈ 02

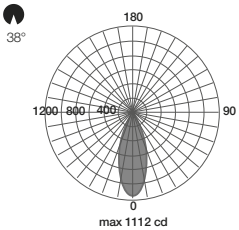
UNA PRO 9 LED – LED flux 900 Lm — 3700 K Ra 80 (3000 K Ra 85 -30% flux) - tolerance of ± 7%

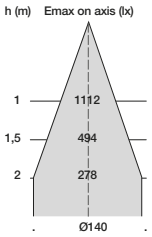












Private home, Milan | 2013

UNA PRO SPOT

patent pending n
DANESE
MILANO UNA PRO design Carlotta de Bevilacqua

UNA PRO SPOT OVERVIEW

wall / ceiling

. 4 LED PTOT 7W
. LENS **6°** / **20°** / **38°**

IP20

3700K Ra 80
not dimmable

OPTIONAL

3000K Ra 85
dimmable 1..10V+push / dali
whit remote power supply

pag. **112**

wall / ceiling

. 9 LED PTOT 10W
. LENS **6°** / **20°** / **38°**

IP20

3700K Ra 80
dimmable 1..10V+push

OPTIONAL

3000K Ra 85
dimmable dali

pag. **120**

semi-recessed

. 4 LED PTOT 7W
. LENS **6°** / **20°** / **38°**

IP20

3700K Ra 80
not dimmable

OPTIONAL

3000K Ra 85
dimmable 1..10V+push / dali

pag. **122**

semi-recessed

. 9 LED PTOT 10W
. LENS **6°** / **20°** / **38°**

IP20

3700K Ra 80
dimmable 1..10V+push

OPTIONAL

3000K Ra 85
dimmable dali

pag. **124**

NOTE: the codes refer to the standard version equipped by neutral white LED 3700K and black holders.
To compose the complete code add the colour numbers in the spaces __ in the lamp code.

UNA PRO SPOT LENSES

UNA PRO SPOT può montare led di diverse temperature di colore (neutral o warm white) per garantire la qualità della luce adatta ad ogni specifica applicazione, su questi si applicano tre diversi set di lenti TIR intercambiabili infinite volte in modo elementare, senza l'ausilio di nessuno strumento, anche ad installazione avvenuta che permettono di ottenere da un unico corpo lampada tre diverse emissioni di 6°, 20°, 38° con una precisione di controllo dell'apertura del fascio luminoso decisamente superiore rispetto ai tradizionali faretti alogeni (margine di scostamento di 1°-1,5°).

UNA PRO SPOT peut être équipée de leds de différentes températures de couleur (neutre ou warm white) assurant une qualité de lumière parfaite pour toutes les applications spécifiques, sur celles-ci, il est possible d'appliquer trois différents sets de lentilles TIR interchangeables à l'infini et de façon très simple, sans qu'aucun outil ne soit nécessaire, même lorsque l'installation est achevée, permettant d'obtenir un corps de lampe unique avec trois émissions différentes, de 6°, 20° et 38°, et un contrôle précis de l'ouverture du faisceau lumineux nettement supérieure par rapport aux spots halogènes traditionnels (marge d'écartement de 1°-1,5°).

UNA PRO SPOT can feature LEDs with various colour temperatures (neutral or warm white) so to guarantee the perfect lighting for each specific application. Three different TIR lens sets are fitted on these LEDs: they can be easily exchanged every time you wish without the need for any instrument, even once the installation is complete, and they allow to obtain from a single lamp three different 6° 20° 38° light emissions, featuring a beam angle control precision absolutely improved compared to the traditional halogen downlights (1°-1,5° deviation).

UNA PRO SPOT kann LEDs mit unterschiedlichen Farbtemperaturen montieren (neutral oder warmes Weiß). Um die korrekte Lichtqualität für jede spezifische Anwendung gewährleisten zu können, werden drei verschiedene Linsensets verwendet, die auch nach der Installation auf einfache Weise ohne Hilfsmittel beliebig oft untereinander vertauscht werden können, wodurch man mit einem einzigen Lampenkörper drei verschiedene Emissionen mit 6°, 20° und 38° und einer präzisen Öffnungskontrolle des Lichtbündels weit über herkömmliche Halogenstrahler (Abweichungsmarge 1°–1,5°) erhält.

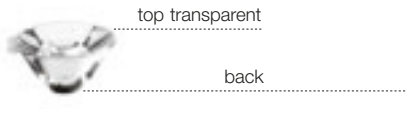
UNA PRO SPOT efficiency

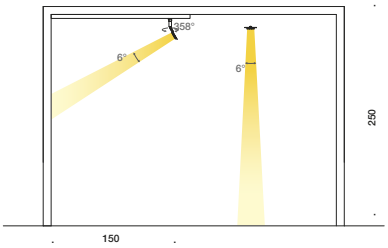
** data declared in producers catalogues

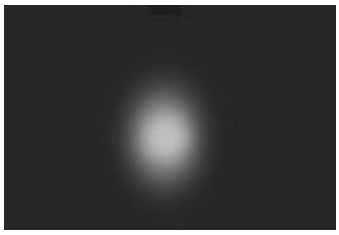
UNA PRO SPOT	LENS	η lamping Lm/W**	R	η lamp Lm/W
4 LED LED flux 600 Lm Lamp flux 498 Lm PLED 6 W - PTOT 7 W	**6°**	**100**	**83%**	83
	20°	**100**	**83%**	83
	38°	**100**	**83%**	83

BEAM ANGLE

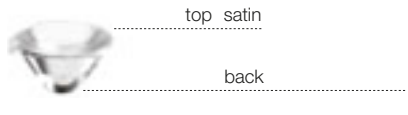
6° narrow

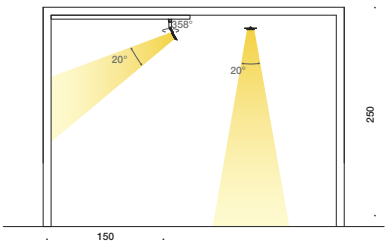


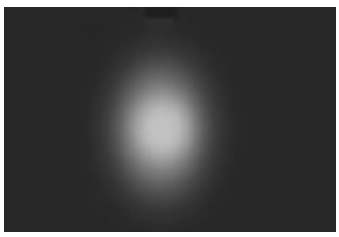




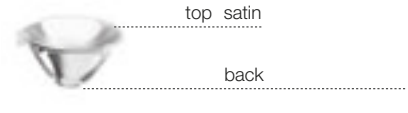
20° medium

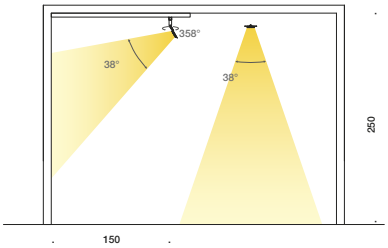


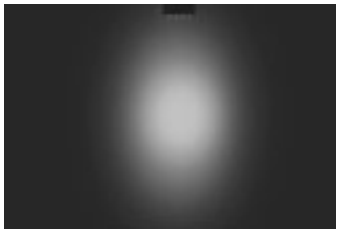




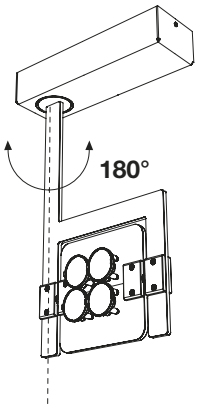
38° wide

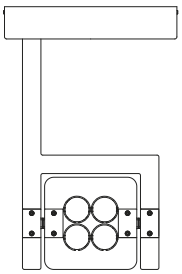


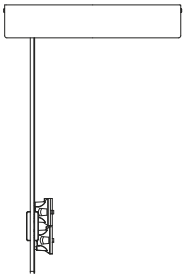


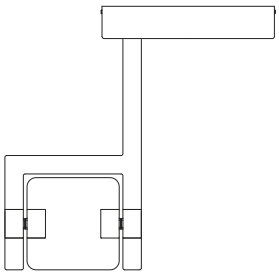


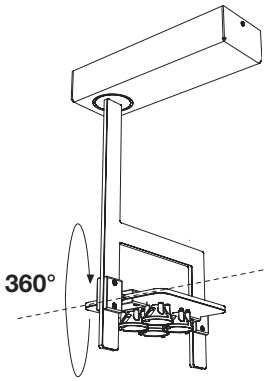
UNA PRO SPOT JOINT

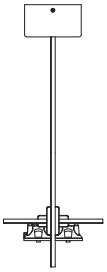








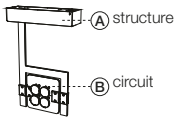

360°



UNA PRO SPOT 4 LED WALL / CEILING

Patent N° **MI2010A000185**
Patent Pending N° **MI2010A000610**

	STANDARD	OPTIONAL
LED	3700 K Ra 80	3000 K Ra 85
(T)	not dimmable	dimmable: 1...10V+push, dali (remote power supply)
HOLDER		



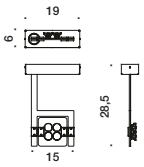
COLOUR

Ⓐ ◇ + Ⓑ ◇
Ⓐ ◇ + Ⓑ ◇
Ⓐ ◆ + Ⓑ ◆
Ⓐ ◇ + Ⓑ ◇

SYMBOLS IP20

LED Service life L70(10K) > 60500h
energy label 1
LEED® certification's credits

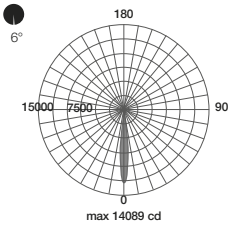
MATERIALS Alluminio - circuito stampato, aluminium - printed circuit board, aluminium - circuit imprimé, Aluminium oder lackiet - Leiterplat

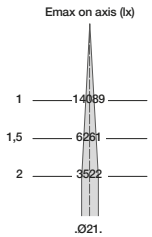


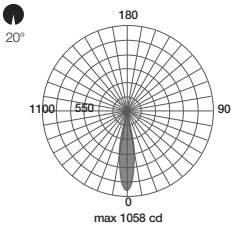
measures in cm

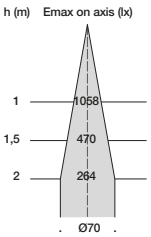
VERSION	LENS	CODE	COLOUR
4 LED LED flux 600 Lm Lamp flux 498 Lm P_{LED} 6 W - P_{TOT} 7 W	**6°**	**DD0006A__D1**	◇ 00 ◆ 09 ◇ 10 ◇ 02
	20°	**DD0006A__D2**	◇ 00 ◆ 09 ◇ 10 ◇ 02
	38°	**DD0006A__D3**	◇ 00 ◆ 09 ◇ 10 ◇ 02

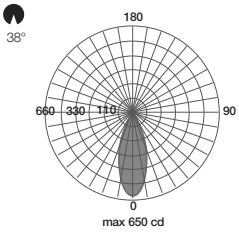
UNA PRO 4 LED – LED flux 600 Lm — 3700 K Ra 80 (3000 K Ra 85 -30% flux) - tolerance of ± 7%

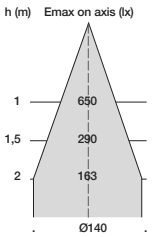








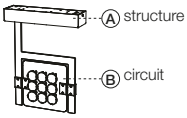




UNA PRO SPOT 9 LED WALL / CEILING

Patent N° **MI2010A000185**
Patent Pending N° **MI2010A000610**

	STANDARD	OPTIONAL
LED	3700 K Ra 80	3000 K Ra 85
(T)	dimmable: 1...10V+push	dimmable: dali
HOLDER		

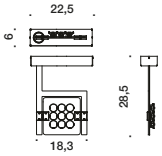


COLOUR

(A) ◇ + (B) ◇
(A) ◇ + (B) ◇
(A) ◆ + (B) ◆
(A) ◇ + (B) ◇

SYMBOLS IP20 (F) (⏚)
LED Service life L70(10K) > 60500h
energy label 1
LEED® certification's credits

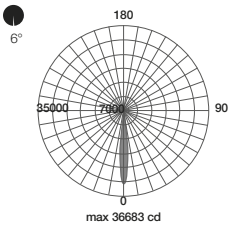
MATERIALS Alluminio - circuito stampato, aluminium - printed circuit board, aluminium - circuit imprimé, Aluminium oder lackiet - Leiterplat

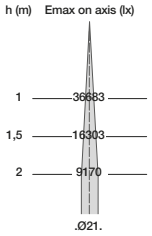


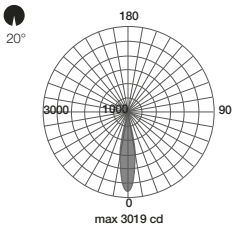
measures in cm

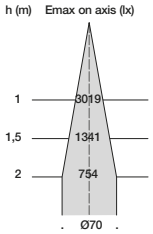
VERSION	LENS	CODE	COLOUR
9 LED LED flux 900 Lm Lamp flux 747 Lm P_{LED} 9 W - P_{TOT} 10 W	**6°**	**DD0006B__A1**	◇ 00 ◆ 09 ◇ 10 ◇ 02
	20°	**DD0006B__A2**	◇ 00 ◆ 09 ◇ 10 ◇ 02
	38°	**DD0006B__A3**	◇ 00 ◆ 09 ◇ 10 ◇ 02

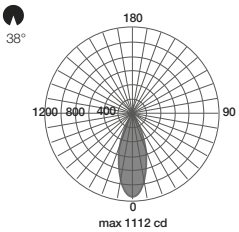
UNA PRO 9 LED – LED flux 900 Lm — 3700 K Ra 80 (3000 K Ra 85 -30% flux) - tolerance of ± 7%

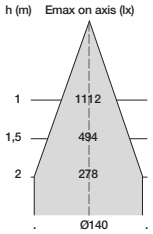








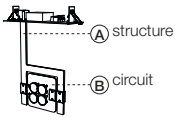




UNA PRO SPOT 4 LED SEMI-RECESSED

Patent N° **MI2010A000185**
Patent Pending N° **MI2010A000610**

	STANDARD	OPTIONAL
LED	3700 K Ra 80	3000 K Ra 85
(T)	not dimmable	dimmable: 1...10V+push, dali
HOLDER		



COLOUR

(A) ◇ + (B) ◇
(A) ◇ + (B) ◇
(A) ◆ + (B) ◆
(A) ◇ + (B) ◇

SYMBOLS IP20

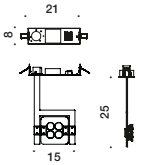
LED Service life L70(10K) > 60500h

energy label 1

LEED® certification's credits

INSTALLATION

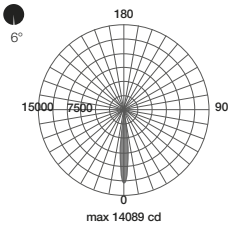
MATERIALS Alluminio - circuito stampato, aluminium - printed circuit board, aluminium - circuit imprimé, Aluminium oder lackiet - Leiterplat

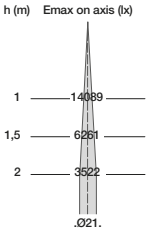


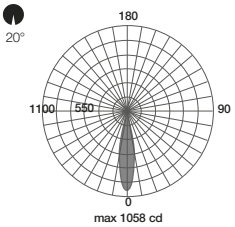
measures in cm

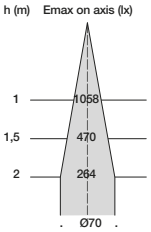
VERSION	LENS	CODE	COLOUR
4 LED LED flux 600 Lm Lamp flux 498 Lm P_{LED} 6 W - P_{TOT} 7 W	**6°**	**DD0006C__D1**	◇ 00 ◆ 09 ◇ 10 ◇ 02
	20°	**DD0006C__D2**	◇ 00 ◆ 09 ◇ 10 ◇ 02
	38°	**DD0006C__D3**	◇ 00 ◆ 09 ◇ 10 ◇ 02

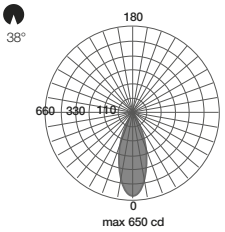
UNA PRO 4 LED – LED flux 600 Lm — 3700 K Ra 80 (3000 K Ra 85 -30% flux) - tolerance of ± 7%

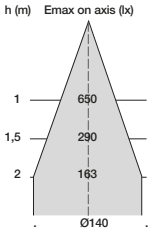








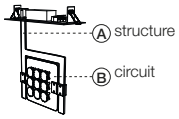




UNA PRO SPOT 9 LED SEMI-RECESSED

Patent N° **MI2010A000185**
Patent Pending N° **MI2010A000610**

	STANDARD	OPTIONAL
LED	3700 K Ra 80	3000 K Ra 85
(T)	dimmable: 1...10V+push	dimmable: dali
HOLDER		



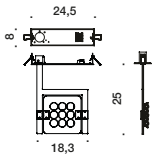
COLOUR

Ⓐ ◇ + Ⓑ ◇
Ⓐ ◇ + Ⓑ ◇
Ⓐ ◆ + Ⓑ ◆
Ⓐ ◇ + Ⓑ ◇

SYMBOLS IP20
LED Service life L70(10K) > 60500h
energy label 1
LEED® certification's credits

INSTALLATION

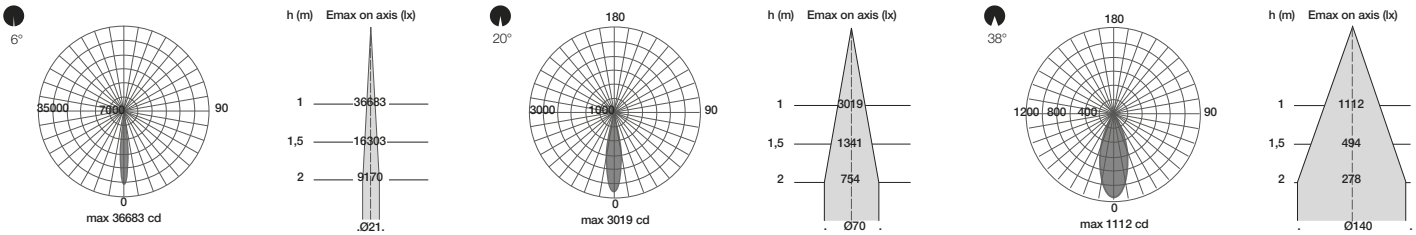
MATERIALS Alluminio - circuito stampato, aluminium - printed circuit board, aluminium - circuit imprimé, Aluminium oder lackiet - Leiterplat



measures in cm

VERSION	LENS	CODE	COLOUR
9 LED LED flux 900 Lm Lamp flux 747 Lm P_{LED} 9 W - P_{TOT} 10 W	**6°**	**DD0006D__A1**	◇ 00 ◆ 09 ◇ 10 ◇ 02
	20°	**DD0006D__A2**	◇ 00 ◆ 09 ◇ 10 ◇ 02
	38°	**DD0006D__A3**	◇ 00 ◆ 09 ◇ 10 ◇ 02

UNA PRO 9 LED – LED flux 900 Lm — 3700 K Ra 80 (3000 K Ra 85 -30% flux) - tolerance of ± 7%

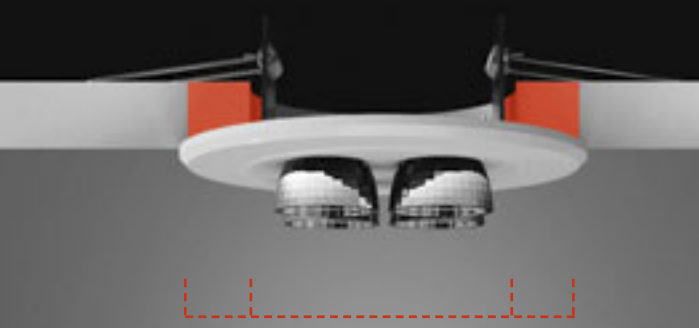


DUE SYSTEM *Carlotta de Bevilacqua, Teresa Caserta 2012*

EASY REPLACEMENT PROGRAM

DUE SYSTEM
EASY REPLACEMENT PROGRAM

DUE 120



Easy replacement

existing hole 9 cm < Δ** < 11 cm

4 LED

PTOT 7,5 W – Lamp flux 474 Lm

DUE 160

Easy replacement

existing hole 13 cm < Δ** < 15 cm

8 LED

PTOT 15 W – Lamp flux 947 Lm

Il sistema Due rappresenta un cambio di paradigma nel modo di interpretare la luce, grazie ad una sintesi tra la tecnologia LED di ultima generazione, le innovative ottiche rotosimmetriche e la suddivisione delle potenze e delle emissioni installate. Due definisce una luce down light comfort, morbida nell'ambiente, attraverso l'utilizzo di ottiche con emissione perfettamente controllata.
Con un ottimo rendimento, risultato dalle proprietà geometriche e materiche delle ottiche, Due garantisce consumi nettamente inferiori a parità di illuminamenti ottenuti rispetto agli attuali sistemi down light ad alogeni o ai tradizionali apparecchi dark da ufficio a fluorescenti.
Dialoga perfettamente con qualsiasi situazione spaziale esistente permettendo un aggiornamento tecnologico sia nelle performance che nel impegno energetico e gestionale, adattandosi anche a sostituire corpi illuminanti precedentemente installati.

Le système Due représente un changement de paradigme dans la façon d'interpréter la lumière, grâce à un synthèse entre la dernière technologie LED, les innovantes circulaires symétriques optiques et de la division de la puissance et des émissions installées.
Deux définit un léger duvet confort, doux dans l'environnement, grâce à l'utilisation de l'émission optique parfaitement contrôlée.
Remerciant une excellente performance, résultant des propriétés géométriques et matérielles des optiques, Due garanties une consommation d'énergie nettement inférieure (au même éclairement) que les actuels halogènes systèmes down light ou que les traditionnels dark light appareils fluorescent de bureau.
Il interagit parfaitement avec n'importe quelle technologie existante, ce qui permet une amélioration à niveau technologique et des engagement énergétique et de gestion, offrant la possibilité de remplacer un dispositif d'éclairage déjà installé.

DUE 200

Easy replacement

existing hole 17 cm < Δ** < 19 cm

12 LED

PTOT 23 W – Lamp flux 1422 Lm

** Δ interval of possible dimensions of the holes

Due system represents a paradigm change in the way of interpreting the light, thanks to a synthesis between the latest LED technology, the innovative circular symmetrical optics and the division of installed power and emissions.
Due emits soft LED downlight through high performance optics that are employed to control light distribution.
Thanks to an excellent performance, resulting from the geometric and material properties of the optics, Due guarantees significantly lower energy consumption (for the same illuminance) than the existing down light halogen systems or than the traditional office fluorescent dark appliances.
It interacts perfectly with any existing spatial technology, allowing a technological updating both in performances and in managing and energy commitment, offering the possibility of replacing a previously installed lighting device.

Due System stellt einen Paradigmenwechsel in der Art der Interpretation des Licht, dank einer Synthese zwischen der neuesten LED-Technologie, die innovative rundförmige symmetrische Optik und die Aufteilung der installierten Leistung und Emissionen. Due definiert ein komfortables Licht, down light und weich in der Umgebung durch den Gebrauch einer Optik mit dark Effekt und mit perfekt kontrollierter Emission.
Dank einer sehr guten Leistung, die sich aus den geometrischen und materiellen Eigenschaften der Optik entsteht, garantiert Due deutlich geringerer Energieverbrauch (bei gleicher Beleuchtungsstärke) als die bestehenden down light Halogen-Systemen oder als die traditionellen Büro fluoreszierende dark light Geräte. Es interagiert perfekt mit jedem vorhandenen räumlichen Technologie, so dass eine technologische Aktualisierung sowohl bei Auftritten und bei den Verwaltungs-und Energie-Engagement, mit der Möglichkeit, sofort ein zuvor installiertes Beleuchtungseinrichtung ersetzen.

DUE SYSTEM
MULTI REFLECTORS

Apparecchio costituito da un insieme di micro riflettori ad emissione rotosimmetrica con angolo di cut off <45°.
Prodotto multireflector : la combinazione di 4/8/12/16 di micro riflettori conferisce a questa famiglia di prodotti la possibilità di adattarsi alle più svariate esigenze illuminotecniche.
Prodotto conforme alla norma UNI EN12464
Prodotto indicato per tutti gli ambienti lavorativi e non, per cui sono richiesti elevati livelli di illuminamento e di comfort visivo.

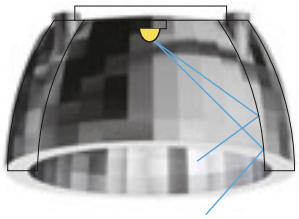
Luminaire consists of a set of rotosymmetrical light emission micro reflectors with a <45° cut-off angle.
Multireflector product: the combination of 4/8/12/16 micro reflectors gives this family of products the ability to adapt to various lighting needs.
This product complies with the UNI EN12464
This luminaire is the ideal solution for both office spaces and general lighting, wherever high lighting performance and visual comfort are required.

Appareil constitué d'un ensemble de micro-réflecteurs à émission rotosymétrique avec un angle de cut-off <45 °
Produit multireflector: la combinaison de 4/8/12/16 micro réflecteurs donne à cette famille de produits la capacité de s'adapter aux différents besoins d'éclairage.
Ce produit c'est conforme à la norme EN12464 UNI
Produit adapte à tous les environnements de travail et pas, pour lesquels sont nécessaires des niveaux élevés de l'éclairage et de confort visuel.

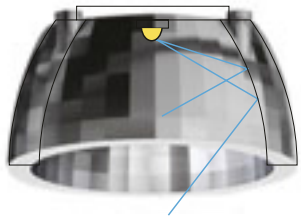
Gerät, bestehend aus einer Mikroreflektoreinheit mit rotosymmetrischer Emission und Cutoff-Winkel <45°
MultireflektorProdukt: Durch die Kombination von 4/8/12/16 Mikroreflektoren kann diese Produktfamilie an die verschiedenen beleuchtungstechnischen Anforderungen angepasst werden.
Produkt konform nach Norm UNI EN12464
Geeignetes Produkt für alle Arbeits- und sonstigen Umgebungen, in denen hohe Lichtleistungen und Sichtkomfort gefordert wird.

RAYS REFLECTED BY CONVEX PRISM

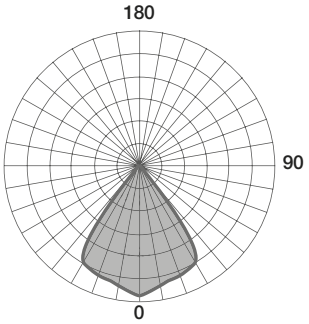
OPTICAL DESIGN TO OPTIMIZE LIGHT DISTRIBUTION
MULTIFACETED GEOMETRY TO CHANGE THE RAY DIVERGENCY



LOW DIVERGENCY



HIGHT DIVERGENCY



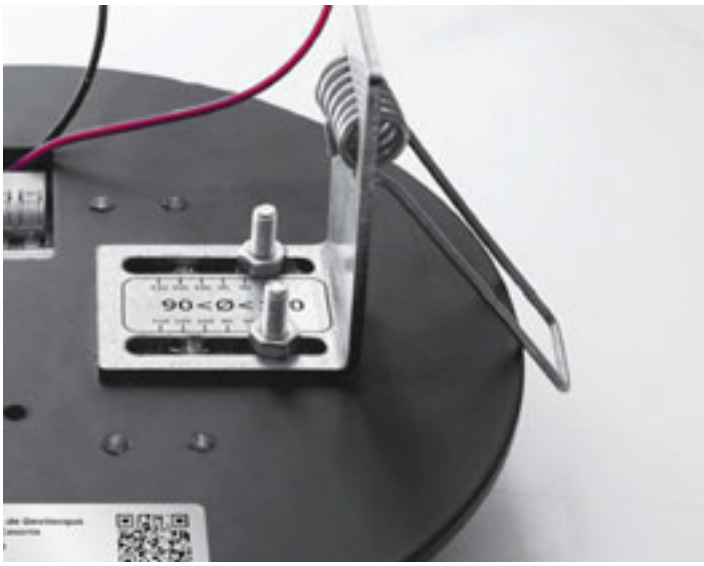
max 800 cd/klm

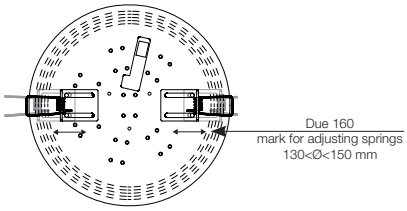
DUE SYSTEM EFFICIENCY

** data declared in producers catalogue

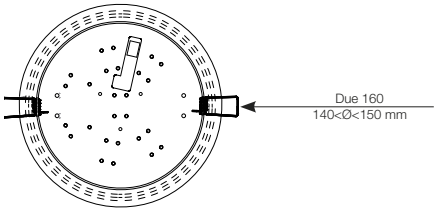
DUE	OPTICS	η lamping Lm/W**	R	η lamp Lm/W
all version	with reflector	86	86%	62

DUE REFLECTOR





DUE RECESSED REFLECTOR

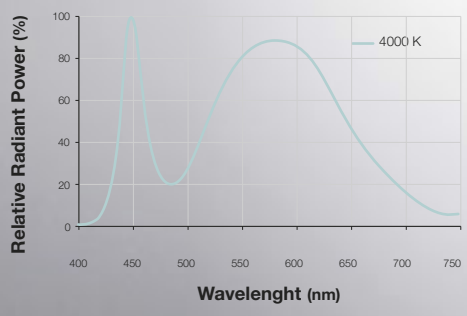


DUE SYSTEM CCT NEUTRAL WHITE 4000K / CRI (Ra) 80

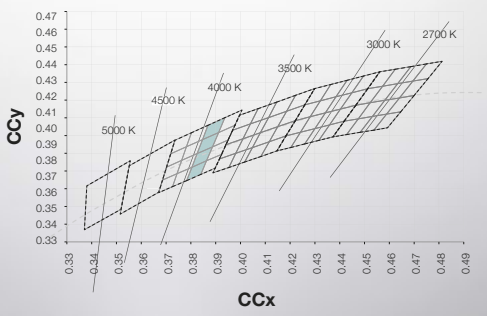
La specifica selezione dei BIN all'interno delle temperature di colore dichiarate garantisce costanza di temperatura di colore dei led forniti sia all'interno del lotto di produzione che nel tempo evitando differenze visibili anche ad occhio nudo.

The particular selection of BIN in the stated color temperatures guarantiees a steady color temperature in the supplied LED, in the same production batch and also in time, avoiding such differences that can be also visible to the naked eye.

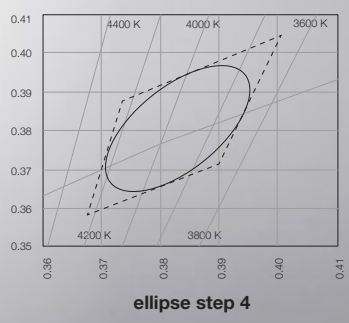
SPECTRAL DIAGRAM



COLOUR BIN



MACADAM

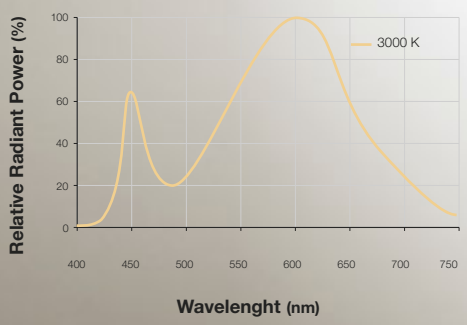


DUE SYSTEM CCT WARM WHITE 3000K / CRI (Ra) 85

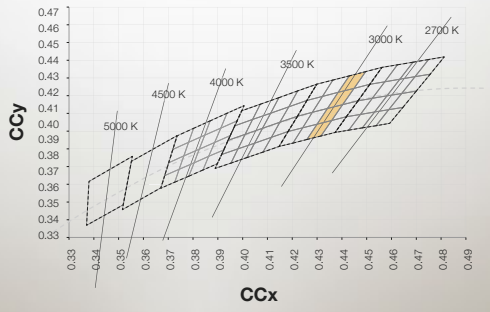
La sélection spécifique des BIN dans les températures de couleur déclarées garantit une température de couleur stable de LED fournis, soit dans le même lot de production soit dans le temps, en évitant les différences qui peuvent être également visible à l'œil nu.

Die genaue Auswahl von BIN in den angegebenen Farbtemperaturen garantiert eine dauerhafte Farbtemperatur der gelieferten LED, in der gleichen Produktion und auch in Zeitverlauf. Das ermöglicht solche Unterschiedenen zu vermeiden, die auch mit bloßem Auge sichtbar sein können.

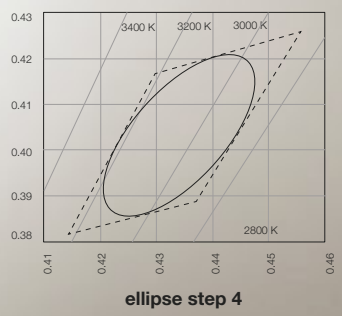
SPECTRAL DIAGRAM



COLOUR BIN



MACADAM



DUE SYSTEM OVERVIEW

120
160
200

. 4 LED PTOT 7,5W / **8 LED** PTOT 15W / **12 LED** PTOT 23W

IP20

3000 K Ra 85
reflectors

OPTIONAL
4000 K Ra 80
LENSES: **6°** / **20°** / **38°**

pag. **144**

120 recessed reflectors
160 recessed reflectors
200 recessed reflectors

. 4 LED PTOT 7,5W / **8 LED** PTOT 15W / **12 LED** PTOT 23W

IP20

3000 K Ra 85
reflectors

OPTIONAL
4000 K Ra 80
LENSES: **6°** / **20°** / **38°**

pag. **148**

120 SMD
160 SMD
200 SMD

. 4 LED PTOT 7,5W / **8 LED** PTOT 15W / **12 LED** PTOT 23W

IP20

3000 K Ra 85
reflectors

OPTIONAL
4000 K Ra 80
LENSES: **6°** / **20°** / **38°**

pag. **152**

300

. 16 LED PTOT 31W

IP20

300 Quadra

3000 K Ra 85
reflectors

OPTIONAL
4000 K Ra 80
LENSES: **6°** / **20°** / **38°**

pag. **154**

pag. **158**

300 recessed reflectors

. 16 LED PTOT 31W

IP20

300 Quadra recessed reflectors

3000 K Ra 85
reflectors

OPTIONAL
4000 K Ra 80
LENSES: **6°** / **20°** / **38°**

pag. **156**

pag. **160**

300 SMD

. 16 LED PTOT 31W

IP20

300 Quadra SMD

3000 K Ra 85
reflectors

OPTIONAL
4000 K Ra 80
LENSES: **6°** / **20°** / **38°**

pag. **157**

pag. **159**

300 Quadra recessed IP

. 16 LED PTOT 31W

IP44

3000 K Ra 85
reflectors

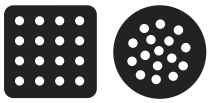
OPTIONAL
4000 K Ra 80
LENSES: **6°** / **20°** / **38°**

pag. **162**

NOTE: the codes refer to the standard version equipped by neutral white LED 3000K. For lenses code see page 142. To compose the complete code add the colour numbers in the spaces __ in the lamp code.

DUE SYSTEM ILLUMINANCE AND INSTALLATION

Installation height



DUE 300

16 LED - lamp flux 1896 Lm
PTOT 31W - PLED 25W

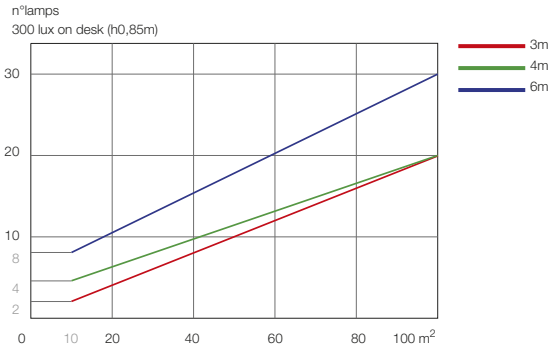
REFLECTORS

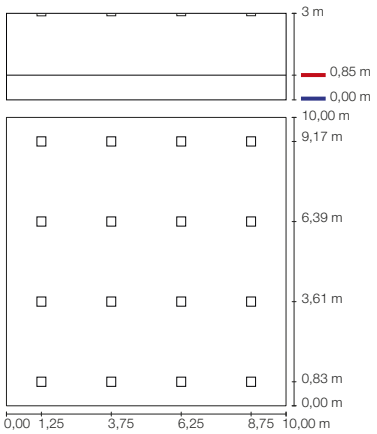
Metallized ABS

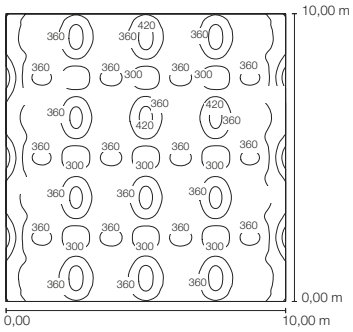
GLARE EVALUATION

Relfection index	70 / 50 / 20
Trasversal UGR	< 19
Longitudinal UGR	< 19

EX.1

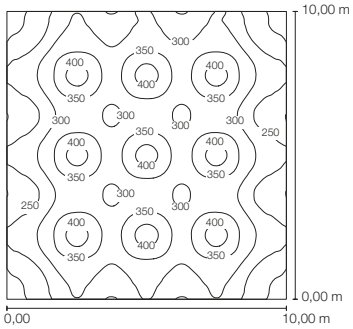






Installation h 3m - Interdistance 2,4m

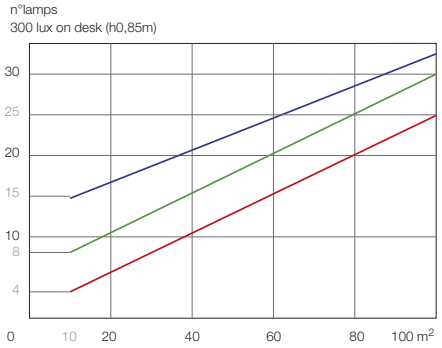
h 0,85m
Em 332 lux
Emin / Em 0,53

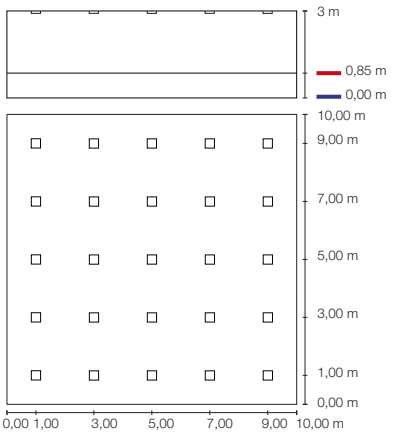


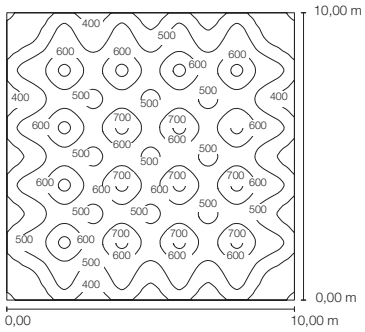
Installation h 3m - Interdistance 2,4m

h 0,0m
Em 309 lux
Emin / Em 0,53

EX.2

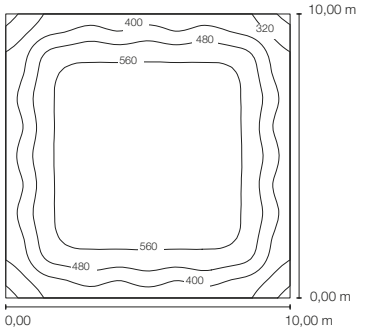






Installation h 3m - Interdistance 2,4m

h 0,85m
Em 527 lux
Emin / Em 0,62



Installation h 3m - Interdistance 2,4m

h 0,0m
Em 496 lux
Emin / Em 0,62

DUE SYSTEM CIRCUIT ID

DANESE MILANO

designer Carlotta de Bevilacqua
Teresa Caserta
modello DUE 120
circuit informations
made in ITALY

technical LED charateristics
printed circuit charateristics
production data of circuit

circuit operation test
cable operation test
driver operation text
final product test

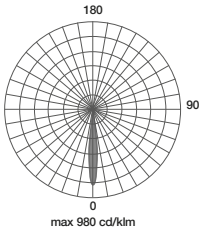
mounting instruction

garentie certificate
CE certificate

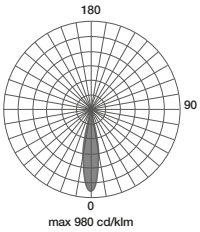
how to order and replace the circuit

DUE LENSES

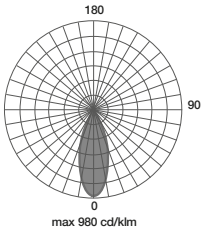
6° narrow



20° medium



38° wide



DUE SYSTEM efficiency

** data declared in producers catalogue

DUE	OPTICS	η lamping Lm/W**	R	η lamp Lm/W
all version	with lenses (6°, 20°,38°)	86	83%	71

kit lens + holder	
black holder + 6° lens	**DDH09L1**
black holder + 20° lens	**DDH09L2**
black holder + 38° lens	**DDH09L3**

kit lens + holder	
white holder + 6° lens	**DDH10L1**
white holder + 20° lens	**DDH10L2**
white holder + 38° lens	**DDH10L3**

kit lens + holder	
transparent holder + 6° lens	**DDH00L1**
transparent holder + 20° lens	**DDH00L2**
transparent holder + 38° lens	**DDH00L3**

DUE

	STANDARD	OPTIONAL
LED	3000 K Ra 85	4000 K Ra 80
(T)	not dimmable	dimmable: 1...10V, dali
HOLDER		

COLOUR

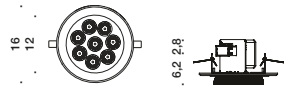
Ⓐ ◇ + Ⓑ ◇
Ⓐ ◆ + Ⓑ ◆
Ⓐ ◇ + Ⓑ ◇
Ⓐ ◇ + Ⓑ ◇

SYMBOLS IP20 F DUE 120 0,35 kg / DUE 160 0,5 kg / DUE 200 0,7 kg
LED Service life L70(6K) > 36300h
energy label 1
LEED® certification's credits

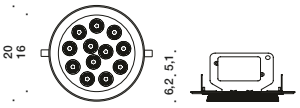
MATERIALS Alluminio - circuito stampato, aluminium - printed circuit board, aluminium - circuit imprimé, Aluminium - Leiterplat

easy replacement existing hole

9 cm < ** < 11 cm



13 cm < ** < 15 cm

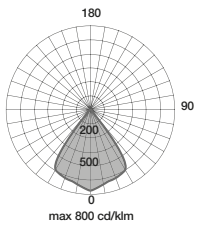


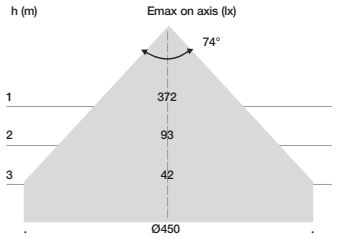
17 cm < ** < 19 cm

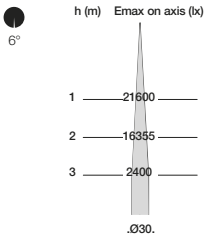
measures in cm

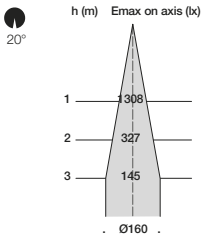
VERSION	OPTICS	CODE	CODE COLOUR
DUE 120 - 4 LED LED flux 552 Lm Lamp flux* 474 Lm PLED 6,4 W - PTOT 7,5 W	**reflectors***	**DD0019A__RF**	◇ 00 ◆ 09 ◇ 10 ◆ 02
	lenses	**DD0019A__+** **4** x **lenses code**	◇ 00 ◆ 09 ◇ 10 ◆ 02
DUE 160 - 8 LED LED flux 1103 Lm Lamp flux* 947 Lm PLED 12,8 W - PTOT 15 W	**reflectors***	**DD0019B__RF**	◇ 00 ◆ 09 ◇ 10 ◆ 02
	lenses	**DD0019B__+** **8** x **lenses code**	◇ 00 ◆ 09 ◇ 10 ◆ 02
DUE 200 - 12 LED LED flux 1655 Lm Lamp flux* 1422 Lm PLED 19 W - PTOT 23 W	**reflectors***	**DD0019C__RF**	◇ 00 ◆ 09 ◇ 10 ◆ 02
	lenses	**DD0019C__+** **12** x **lenses code**	◇ 00 ◆ 09 ◇ 10 ◆ 02

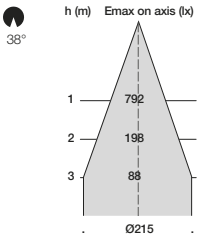
DUE 120 – LED flux 552 Lm - 3000 K Ra 85 (4000 K Ra 80 +7% flux) - tolerance of ± 7%



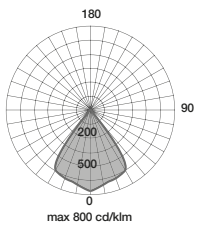


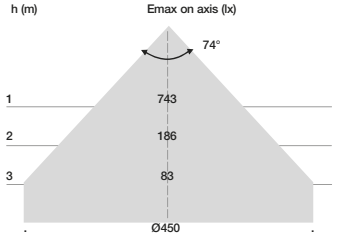


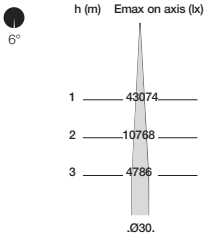


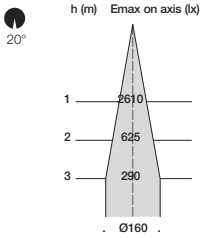


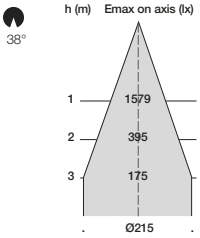
DUE 160 – LED flux 1103 Lm - 3000 K Ra 85 (4000 K Ra 80 +7% flux) - tolerance of ± 7%



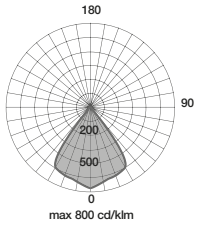


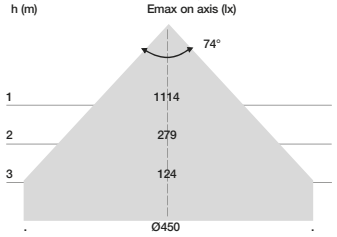


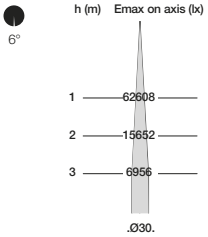


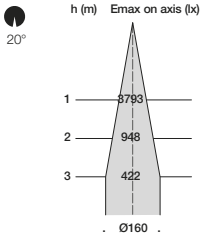


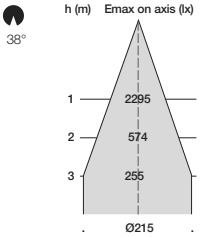
DUE 200 – LED flux 1655 Lm - 3000 K Ra 85 (4000 K Ra 80 +7% flux) - tolerance of ± 7%





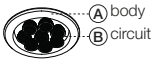






DUE RECESSED REFLECTORS

	STANDARD	OPTIONAL
LED	3000 K Ra 85	4000 K Ra 80
(T)	not dimmable	dimmable: 1...10V, dali
HOLDER		

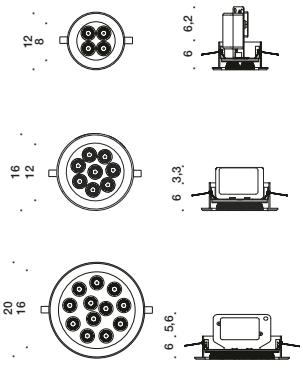


COLOUR

Ⓐ ◇ + Ⓑ ◇
Ⓐ ◆ + Ⓑ ◆
Ⓐ ◇ + Ⓑ ◇
Ⓐ ◇ + Ⓑ ◇

SYMBOLS IP20 DUE 120 0,55 kg / DUE 160 0,9 kg / DUE 200 1,3 kg
LED Service life L70(6K) > 36300h
energy label 1
LEED® certification's credits

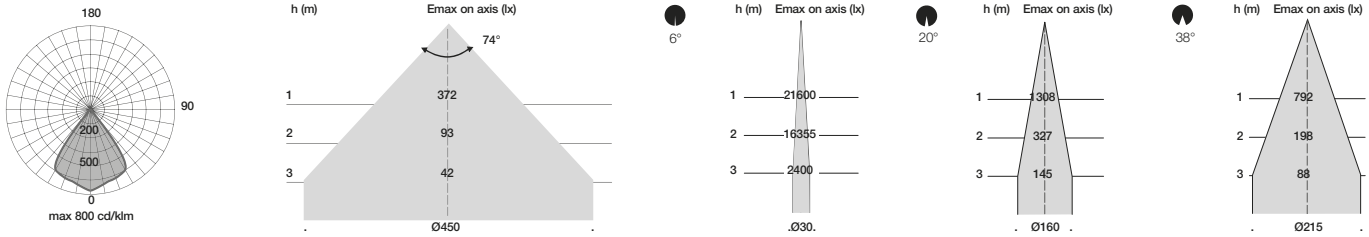
MATERIALS Alluminio - circuito stampato, aluminium - printed circuit board, aluminium - circuit imprimé, Aluminium - Leiterplat



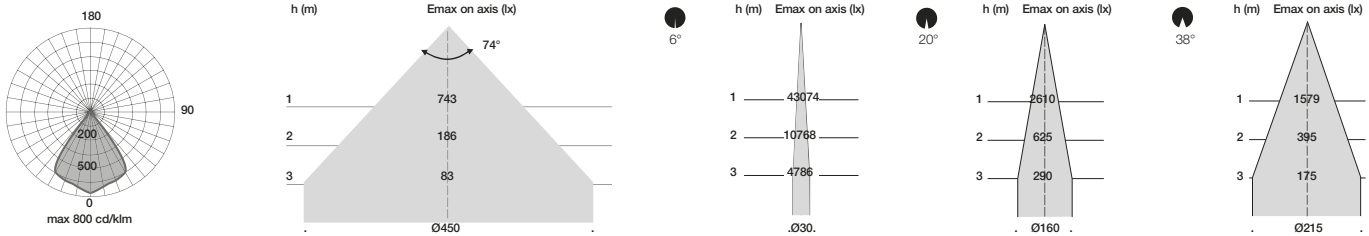
VERSION	OPTICS	CODE	CODE COLOUR
DUE 120 - 4 LED LED flux 552 Lm Lamp flux* 474 Lm PLED 6,4 W - PTOT 7,5 W	**reflectors***	**DD0019A__IRF**	◇ 00 ◆ 09 ◇ 10 ◆ 02
	lenses	**DD0019A__I+** **4** x **lenses code**	◇ 00 ◆ 09 ◇ 10 ◆ 02
DUE 160 - 8 LED LED flux 1103 Lm Lamp flux* 947 Lm PLED 12,8 W - PTOT 15 W	**reflectors***	**DD0019B__IRF**	◇ 00 ◆ 09 ◇ 10 ◆ 02
	lenses	**DD0019B__I+** **8** x **lenses code**	◇ 00 ◆ 09 ◇ 10 ◆ 02
DUE 200 - 12 LED LED flux 1655 Lm Lamp flux* 1422 Lm PLED 19 W - PTOT 23 W	**reflectors***	**DD0019C__IRF**	◇ 00 ◆ 09 ◇ 10 ◆ 02
	lenses	**DD0019C__I+** **12** x **lenses code**	◇ 00 ◆ 09 ◇ 10 ◆ 02

measures in cm

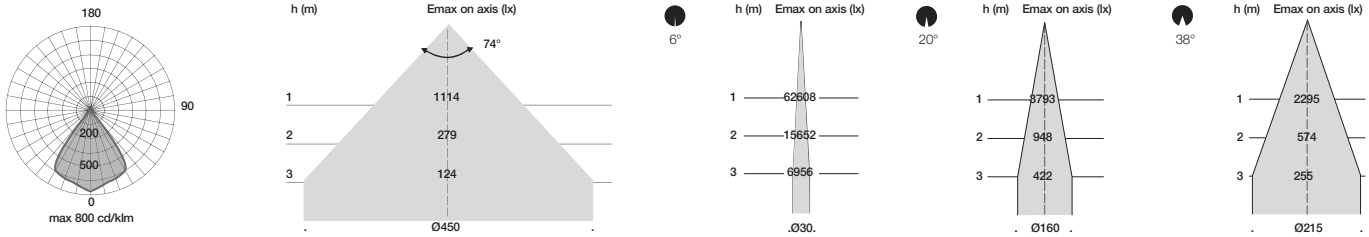
DUE 120 – LED flux 552 Lm - 3000 K Ra 85 (4000 K Ra 80 +7% flux) - tolerance of ± 7%



DUE 160 – LED flux 1103 Lm - 3000 K Ra 85 (4000 K Ra 80 +7% flux) - tolerance of ± 7%



DUE 200 – LED flux 1655 Lm - 3000 K Ra 85 (4000 K Ra 80 +7% flux) - tolerance of ± 7%



DUE SMD

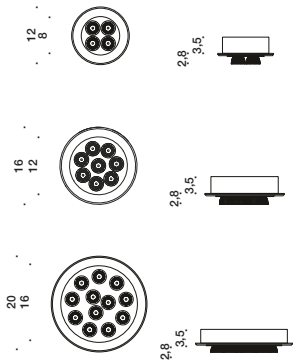
	STANDARD	OPTIONAL
LED	3000 K Ra 85	4000 K Ra 80
(T)	not dimmable	dimmable: 1...10V, dali
HOLDER		

COLOUR

A ◇ + B ◇
A ◆ + B ◆
A ◇ + B ◇
A ◇ + B ◇

SYMBOLS IP20 DUE 120 0,65 kg / DUE 160 1,1 kg / DUE 200 1,6 kg
LED Service life L70(6K) > 36300h
energy label 1
LEED® certification's credits

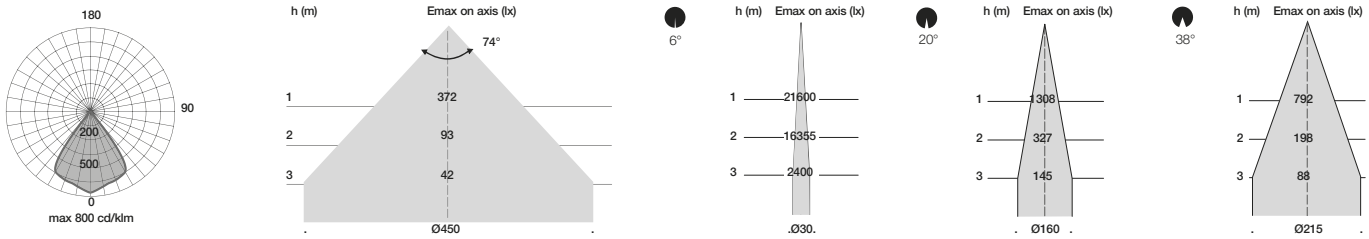
MATERIALS Alluminio - circuito stampato, aluminium - printed circuit board, aluminium - circuit imprimé, Aluminium - Leiterplat



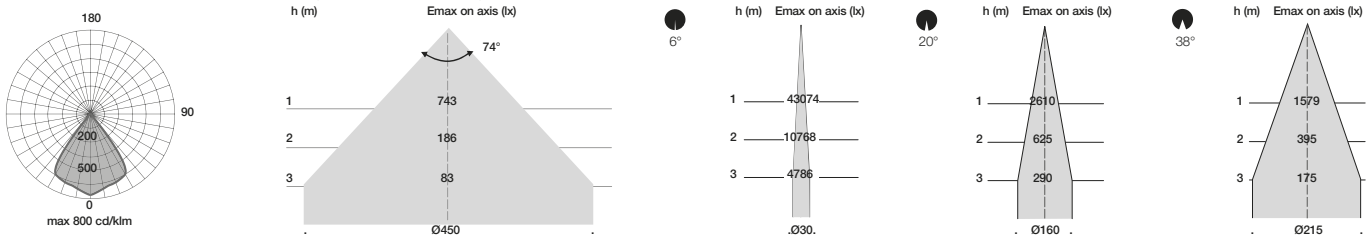
measures in cm

VERSION	OPTICS	CODE	CODE COLOUR
DUE 120 - 4 LED LED flux 552 Lm Lamp flux* 474 Lm PLED 6,4 W - PTOT 7,5 W	**reflectors***	**DD0019A__SRF**	◇ 00 ◆ 09 ◇ 10 ◆ 02
	lenses	**DD0019A__S+** **4 x lenses code**	◇ 00 ◆ 09 ◇ 10 ◆ 02
DUE 160 - 8 LED LED flux 1103 Lm Lamp flux* 947 Lm PLED 12,8 W - PTOT 15 W	**reflectors***	**DD0019B__SRF**	◇ 00 ◆ 09 ◇ 10 ◆ 02
	lenses	**DD0019B__S+** **8 x lenses code**	◇ 00 ◆ 09 ◇ 10 ◆ 02
DUE 200 - 12 LED LED flux 1655 Lm Lamp flux* 1422 Lm PLED 19 W - PTOT 23 W	**reflectors***	**DD0019C__SRF**	◇ 00 ◆ 09 ◇ 10 ◆ 02
	lenses	**DD0019C__S+** **12 x lenses code**	◇ 00 ◆ 09 ◇ 10 ◆ 02

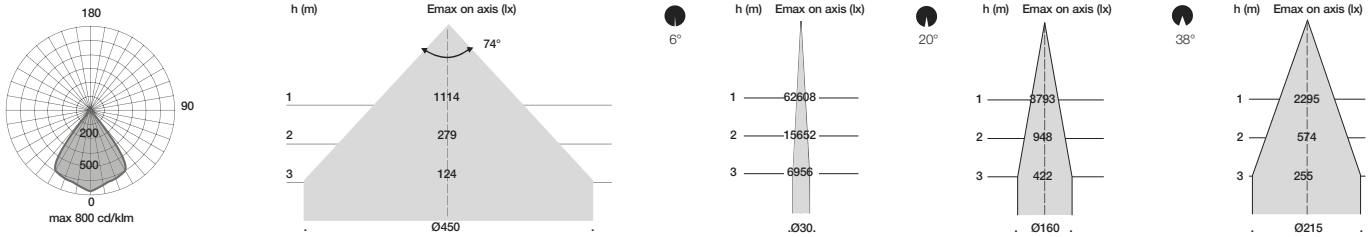
DUE 120 – LED flux 552 Lm - 3000 K Ra 85 (4000 K Ra 80 +7% flux) - tolerance of ± 7%



DUE 160 – LED flux 1103 Lm - 3000 K Ra 85 (4000 K Ra 80 +7% flux) - tolerance of ± 7%



DUE 200 – LED flux 1655 Lm - 3000 K Ra 85 (4000 K Ra 80 +7% flux) - tolerance of ± 7%



DUE 300

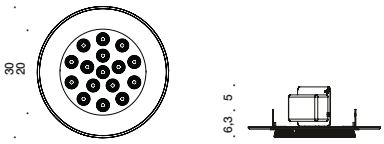
	STANDARD	OPTIONAL
LED	3000 K Ra 85	4000 K Ra 80
(T)	not dimmable	dimmable: 1...10V, dali
HOLDER		

COLOUR

Ⓐ ◇ + Ⓑ ◇
Ⓐ ◆ + Ⓑ ◆
Ⓐ ◇ + Ⓑ ◇
Ⓐ ◇ + Ⓑ ◇

SYMBOLS IP20 F 1,5 kg
LED Service life L70(6K) > 36300h
energy label 1
LEED® certification's credits

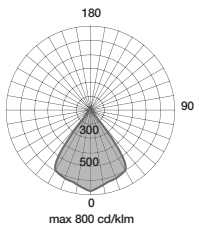
MATERIALS Alluminio - circuito stampato, aluminium - printed circuit board, aluminium - circuit imprimé, Aluminium - Leiterplat

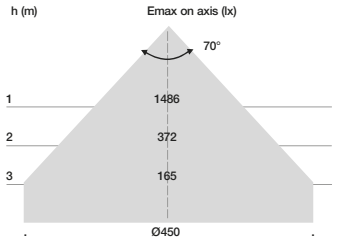


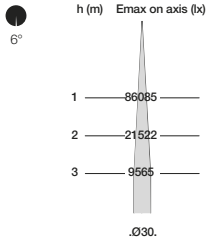
measures in cm

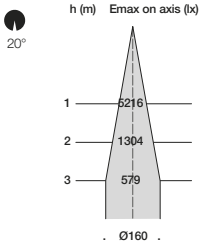
VERSION	OPTICS	CODE	CODE COLOUR
DUE 300 - 16 LED LED flux 2207 Lm Lamp flux* 1896 Lm P_{LED} 25 W - P_{TOT} 31 W	**reflectors***	**DD0019D__RF**	◇ 00 ◆ 09 ◇ 10 ◆ 02
	lenses	**DD0019D__+** **16** x **lenses code**	◇ 00 ◆ 09 ◇ 10 ◆ 02

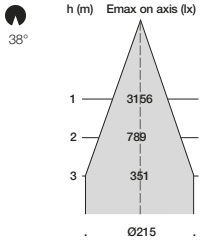
DUE 300 – LED flux 2207 Lm - 3000 K Ra 85 (4000 K Ra 80 +7% flux) - tolerance of ± 7%











DUE 300 RECESSED REFLECTORS

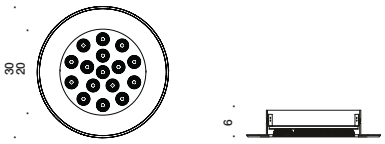
	STANDARD	OPTIONAL
LED	3000 K Ra 85	4000 K Ra 80
(T)	not dimmable	dimmable: 1...10V, dali
HOLDER		

COLOUR

Ⓐ ◇ + Ⓑ ◇
Ⓐ ◆ + Ⓑ ◆
Ⓐ ◇ + Ⓑ ◇
Ⓐ ◇ + Ⓑ ◇

SYMBOLS IP20 F 1,5 kg
LED Service life L70(6K) > 36300h
energy label 1
LEED® certification's credits

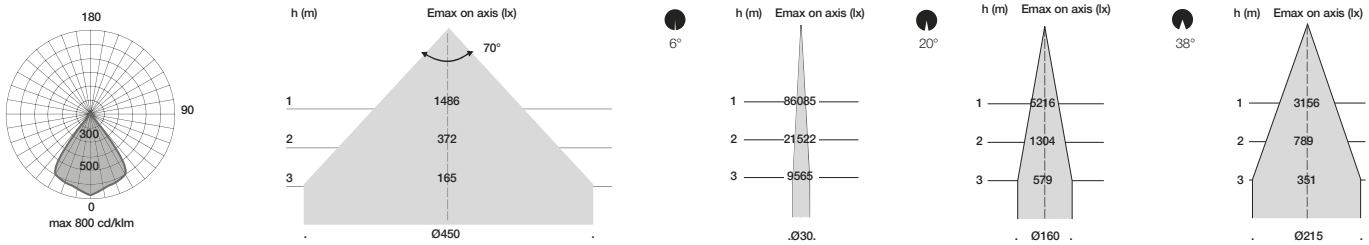
MATERIALS Alluminio - circuito stampato, aluminium - printed circuit board, aluminium - circuit imprimé, Aluminium - Leiterplat



measures in cm

VERSION	OPTICS	CODE	CODE COLOUR
DUE 300 - 16 LED LED flux 2207 Lm Lamp flux* 1896 Lm P_{LED} 25 W - P_{TOT} 31 W	**reflectors***	**DD0019D__IRF**	◇ 00 ◆ 09 ◇ 10 ◇ 02
	lenses	**DD0019D__I+** **16** x **lenses code**	◇ 00 ◆ 09 ◇ 10 ◇ 02

DUE 300 – LED flux 2207 Lm - 3000 K Ra 85 (4000 K Ra 80 +7% flux) - tolerance of ± 7%



DUE 300 SMD

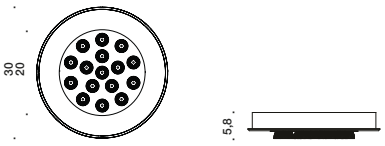
	STANDARD	OPTIONAL
LED	3000 K Ra 85	4000 K Ra 80
(T)	not dimmable	dimmable: 1...10V, dali
HOLDER		

COLOUR

Ⓐ ◇ + Ⓑ ◇
Ⓐ ◆ + Ⓑ ◆
Ⓐ ◇ + Ⓑ ◇
Ⓐ ◇ + Ⓑ ◇

SYMBOLS IP20 F 2,85 kg
LED Service life L70(6K) > 36300h
energy label 1
LEED® certification's credits

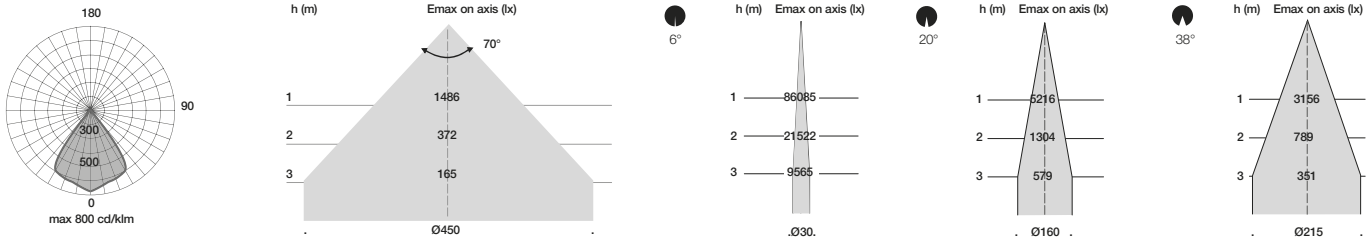
MATERIALS Alluminio - circuito stampato, aluminium - printed circuit board, aluminium - circuit imprimé, Aluminium - Leiterplat



measures in cm

VERSION	OPTICS	CODE	CODE COLOUR
DUE 300 - 16 LED LED flux 2207 Lm Lamp flux* 1896 Lm P_{LED} 25 W - P_{TOT} 31 W	**reflectors***	**DD0019D__SRF**	◇ 00 ◆ 09 ◇ 10 ◆ 02
	lenses	**DD0019D__S+** **16 x lenses code**	◇ 00 ◆ 09 ◇ 10 ◆ 02

DUE 300 – LED flux 2207 Lm - 3000 K Ra 85 (4000 K Ra 80 +7% flux) - tolerance of ± 7%



DUE 300 QUADRA

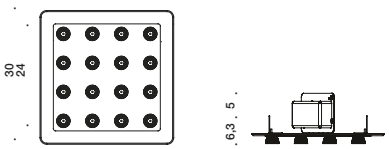
	STANDARD	OPTIONAL
LED	3000 K Ra 85	4000 K Ra 80
(T)	not dimmable	dimmable: 1...10V, dali
HOLDER		

COLOUR

Ⓐ ◇ + Ⓑ ◇
Ⓐ ◆ + Ⓑ ◆
Ⓐ ◇ + Ⓑ ◇
Ⓐ ◇ + Ⓑ ◇

SYMBOLS IP20 2,85 kg
LED Service life L70(6K) > 36300h
energy label 1
LEED® certification's credits

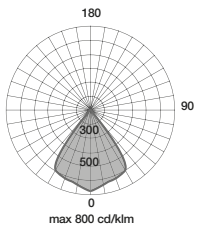
MATERIALS Alluminio - circuito stampato, aluminium - printed circuit board, aluminium - circuit imprimé, Aluminium - Leiterplat

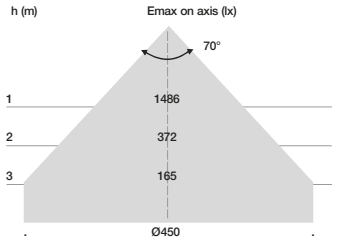


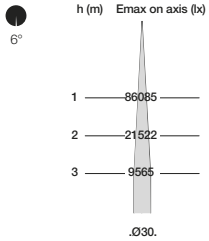
measures in cm

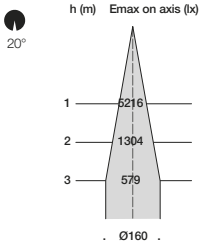
VERSION	OPTICS	CODE	CODE COLOUR
DUE 300 QUADRA - 16 LED LED flux 2207 Lm Lamp flux* 1896 Lm PLED 25 W - PTOT 31 W	**reflectors***	**DD0019E__RF**	◇ 00 ◆ 09 ◇ 10 ◇ 02
	lenses	**DD0019E__+** **16** x **lenses code**	◇ 00 ◆ 09 ◇ 10 ◇ 02

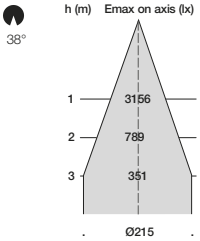
DUE 300 – LED flux 2207 Lm - 3000 K Ra 85 (4000 K Ra 80 +7% flux) - tolerance of ± 7%

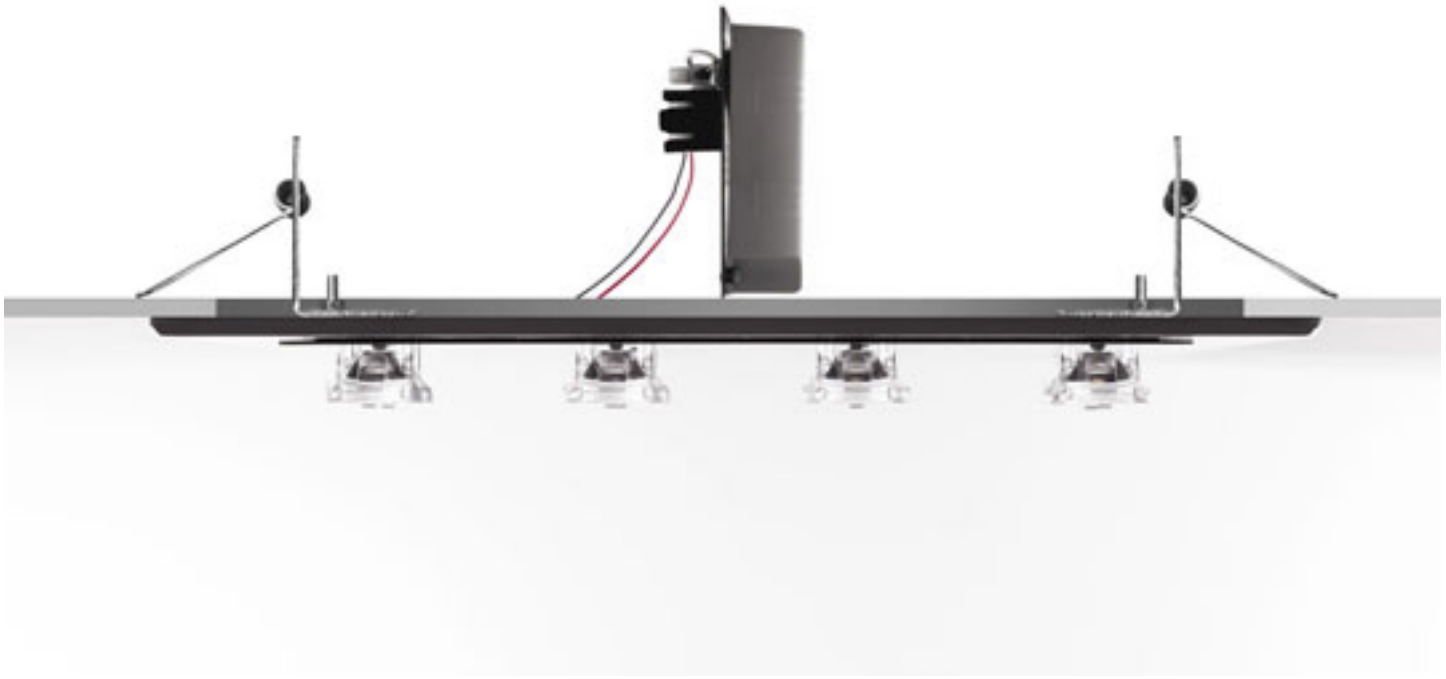












DUE 300 QUADRA SMD

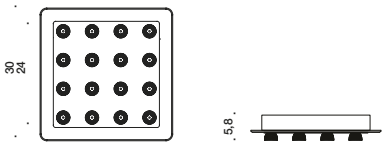
	STANDARD	OPTIONAL
LED	3000 K Ra 85	4000 K Ra 80
(T)	not dimmable	dimmable: 1...10V, dali
HOLDER		

COLOUR

Ⓐ ◇ + Ⓑ ◇
Ⓐ ◆ + Ⓑ ◆
Ⓐ ◇ + Ⓑ ◇
Ⓐ ◆ + Ⓑ ◇

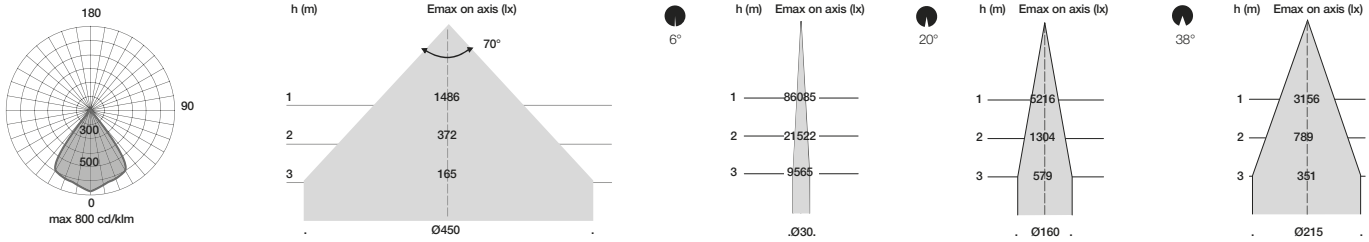
SYMBOLS IP20 (F) ⏚ 2,85 kg
LED Service life L70(6K) > 36300h
energy label 1
LEED® certification's credits

MATERIALS Alluminio - circuito stampato, aluminium - printed circuit board, aluminium - circuit imprimé, Aluminium - Leiterplat



VERSION	OPTICS	CODE	CODE COLOUR
DUE 300 QUADRA - 16 LED LED flux 2207 Lm Lamp flux* 1896 Lm P_{LED} 25 W - P_{TOT} 31 W	**reflectors***	**DD0019E__SRF**	◇ 00 ◆ 09 ◇ 10 ◆ 02
	lenses	**DD0019E__S+** **16** x **lenses code**	◇ 00 ◆ 09 ◇ 10 ◆ 02

DUE 300 – LED flux 2207 Lm - 3000 K Ra 85 (4000 K Ra 80 +7% flux) - tolerance of ± 7%



DUE 300 QUADRA RECESSED REFLECTORS

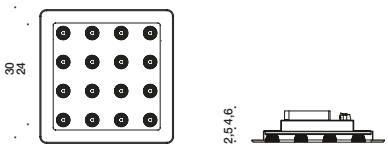
	STANDARD	OPTIONAL
LED	3000 K Ra 85	4000 K Ra 80
(T)	not dimmable	dimmable: 1...10V, dali
HOLDER		

COLOUR

A ◇ + B ◇
A ◆ + B ◆
A ◇ + B ◇
A ◇ + B ◇

SYMBOLS IP20 F 2,85 kg
LED Service life L70(6K) > 36300h
energy label 1
LEED® certification's credits

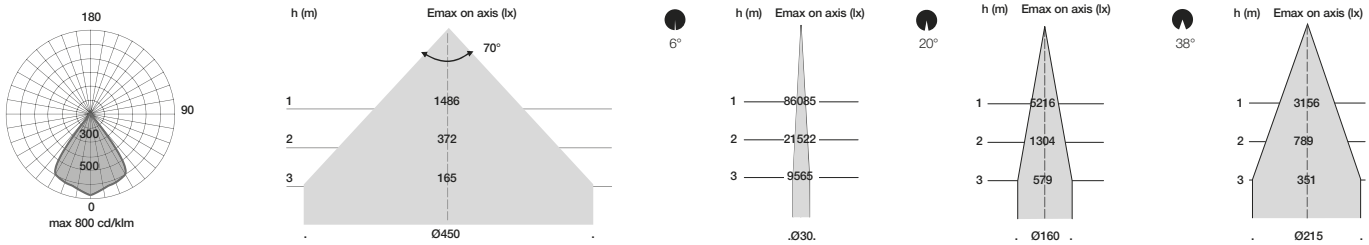
MATERIALS Alluminio - circuito stampato, aluminium - printed circuit board, aluminium - circuit imprimé, Aluminium - Leiterplat



measures in cm

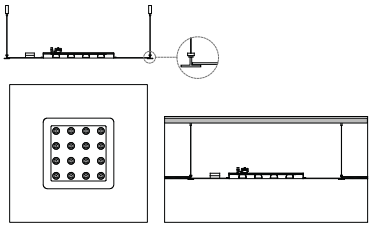
VERSION	OPTICS	CODE	CODE COLOUR
DUE 300 QUADRA - 16 LED LED flux 2207 Lm Lamp flux* 1896 Lm P_{LED} 25 W - P_{TOT} 31 W	**reflectors***	**DD0019E__IRF**	◇ 00 ◆ 09 ◇ 10 ◇ 02
	lenses	**DD0019E__I+** **16** x **lenses code**	◇ 00 ◆ 09 ◇ 10 ◇ 02

DUE 300 – LED flux 2207 Lm - 3000 K Ra 85 (4000 K Ra 80 +7% flux) - tolerance of ± 7%

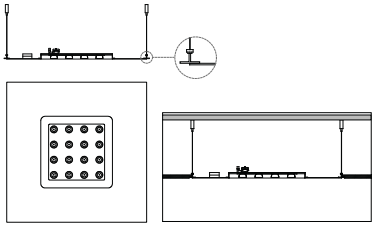


special recessed version

commercial suspension system

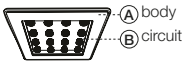


commercial panel



DUE 300 IP44 QUADRA RECESSED

	STANDARD	OPTIONAL
LED	3000 K Ra 85	4000 K Ra 80
(T)	not dimmable	dimmable: 1...10V, dali
HOLDER		

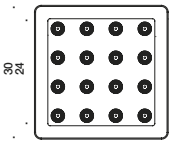


COLOUR

Ⓐ ◆ + Ⓑ ◇

SYMBOLS IP44 F 1,5 kg
LED Service life L70(6K) > 36300h
energy label 1
LEED® certification's credits

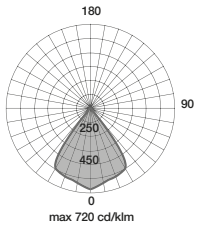
MATERIALS Alluminio - circuito stampato, aluminium - printed circuit board, aluminium - circuit imprimé, Aluminium - Leiterplat

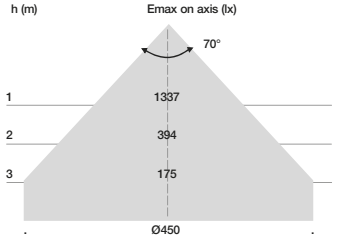


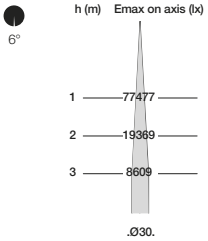
measures in cm

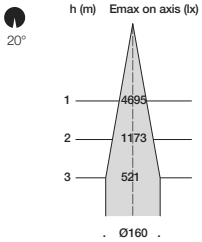
VERSION	OPTICS	CODE	CODE COLOUR
DUE 300 QUADRA IP44 - 16 LED LED flux 2207 Lm Lamp flux* 1706 Lm P_{LED} 25 W - P_{TOT} 31 W	**reflectors***	**DD0019D__IRF44**	◆ 00
	lenses	**DD0019D__I44+** **16 x lenses code**	◆ 00

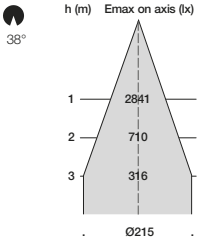
DUE 300 IP44 – LED flux 2750 Lm - 3000 K Ra 85 (4000 K Ra 80 +7% flux) - tolerance of ± 7%





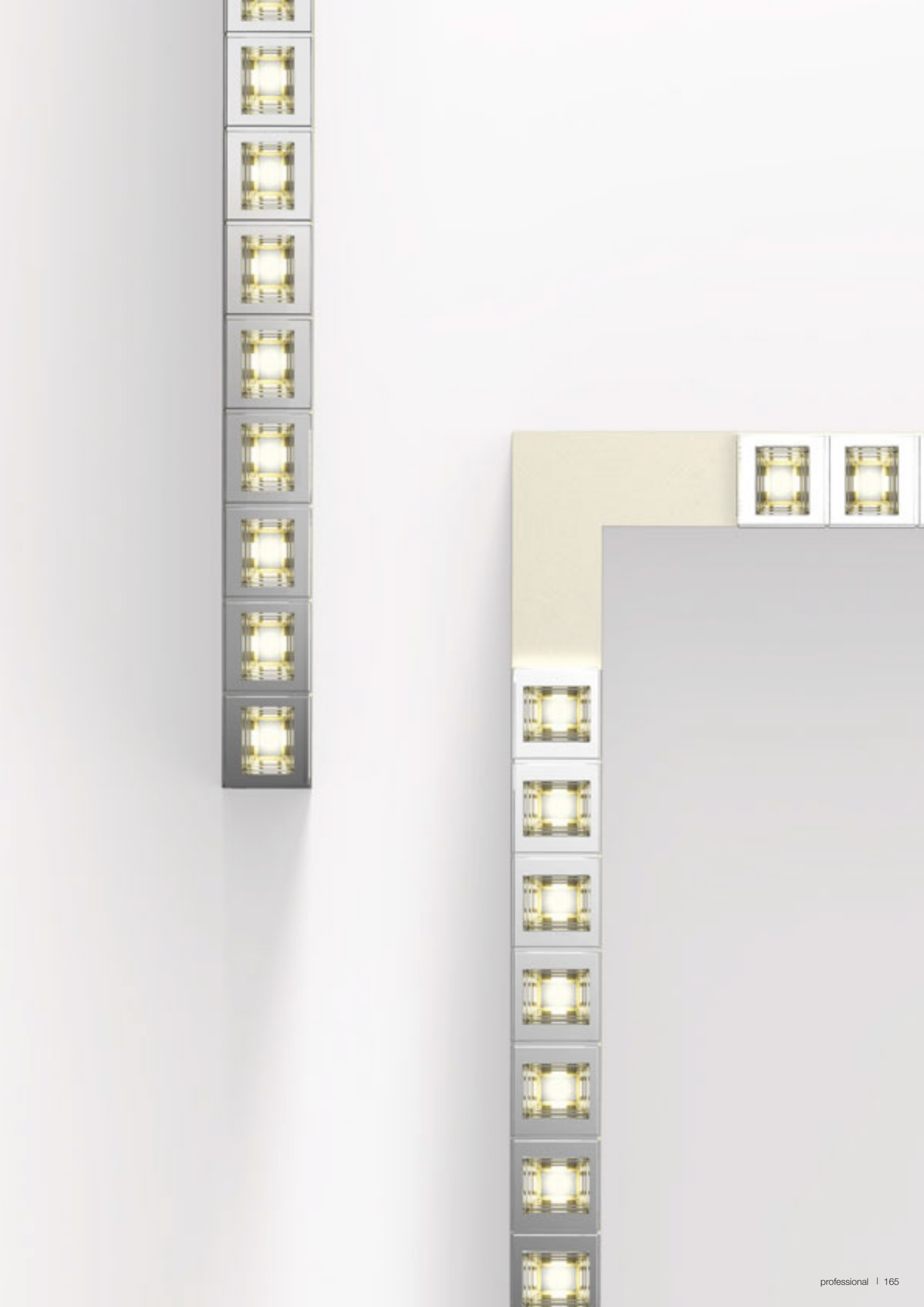




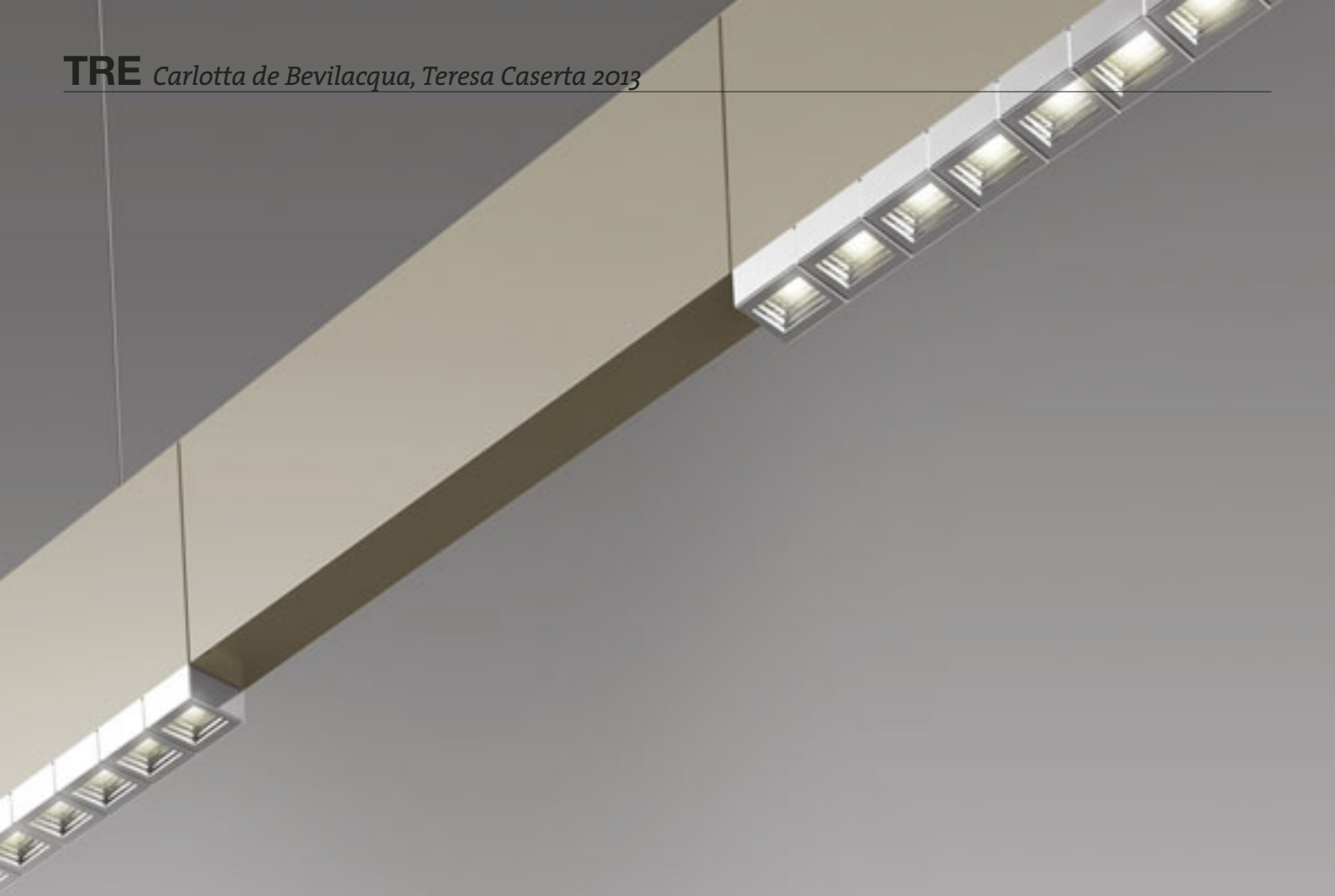


HEADSHIP

TRE SYSTEM *Carlotta de Bevilacqua, Teresa Caserta 2013*

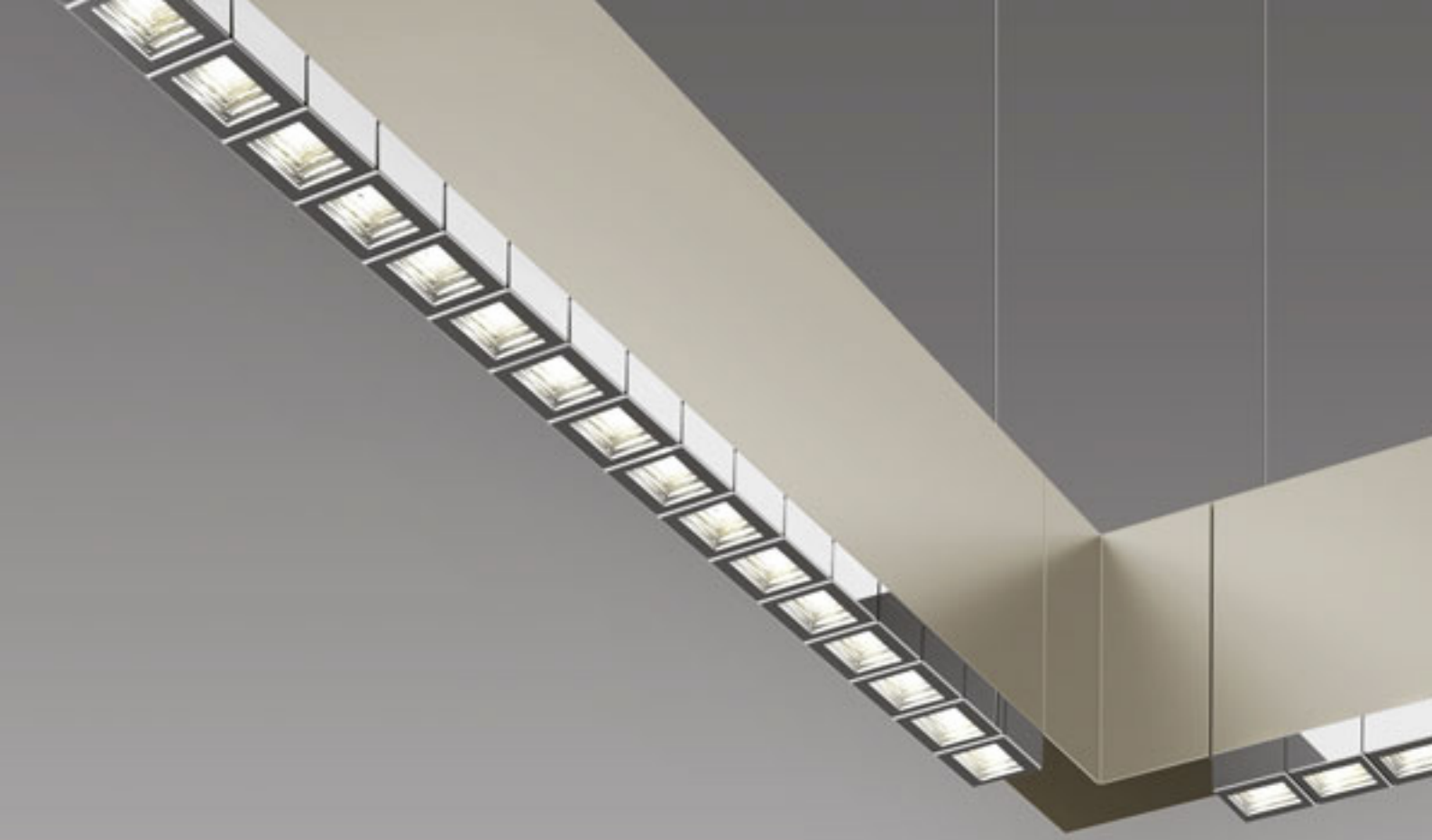


TRE *Carlotta de Bevilacqua, Teresa Caserta 2013*



Tre è un innovativo ed aperto sistema modulare assolutamente flessibile pensato per adeguarsi a diverse esigenze di luce, pur garantendo un adeguato comfort e performance corrette. Un'ottica asimmetrica è il principio base di costituzione dell'intero sistema, lavora sui due assi controllando l'emissione del led secondo due differenti aperture: 30° e 42°.
Rispetto ai tradizionali sistemi dark da ufficio che colonizzano gli spazi con una luce uniforme e a norma ma priva di qualità percettive ed emozionali, Tre permette di controllare e disegnare la luce nello spazio rispettando ritmi di luce ed ombra, garantendo situazioni variabili e diversificate per il loro impatto sullo spazio e sulla sua percezione.
Differenti taglie di prodotti permettono di scegliere la performance di luce ideale in relazione a qualsiasi combinazione delle variabili di altezza ed interdistanza di installazione.
Apparecchio per ufficio, regolamentato dalla normativa UNI EN12464
- UGR < 19
UGR (Unified Glare Rating)= definisce l'abbagliamento diretto prodotto dall'apparecchio, considerato lo spazio in cui si trova.
- **Luminanza <3000cd/m2 a 65° e oltre** dall'asse dell'apparecchio definisce se lo stesso può produrre riflessi fastidiosi nei videoterminali.

Tre is an innovative and very flexible open modular system, designed to adapt to all workplace lighting needs yet ensuring high comfort and quality performance. Based on the principle of asymmetric optics, the entire system works on two axes, regulating the emission of the LED according to two different openings: 30 ° and 42 °.
As opposed to traditional dark light office equipment compliant with emission standards that dominates space but does not respond to any physical or emotional needs, Tre lets you modulate light in space according to light and shadow rhythms, ensuring different perceptual experiences.
Different power size allows to choose the right light performance referred to each different combination of high and distance of installation.
Luminaire for office spaces - complies with standard UNI EN12464
- UGR < 19
UGR (Unified Glare Rating)= it defines the direct glare produced by the luminaire, considering the space in which it is located.
-Luminance <3000cd/m2 @ 65 ° and more *from the luminaire axis it defines whether it can cause annoying reflections in the VDT.*



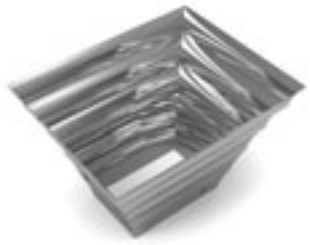
Tre est un système modulaire innovant et ouvert absolument flexible, conçu pour s'adapter aux différentes exigences de lumière, tout en garantissant un confort adéquat et de bonnes performances.
Une optique asymétrique est le principe de base composant tout le système, celle-ci travaille sur deux axes en contrôlant l'émission de la LED selon deux ouvertures : 30° et 42°.
Par rapport aux systèmes de bureau traditionnels à émission directe (dark ligth) qui colonisent les espaces avec leur lumière uniforme (des produits conformes aux normes mais sans qualités perceptives et émotionnelles), Tre permet de contrôler et de dessiner la lumière dans l'espace en respectant les rythmes de lumière et d'ombre ; il offre des situations ayant un impact sur l'espace et une perception de l'appareil variables. Les différentes tailles de produit permettent de choisir la performance de lumière idéale en utilisant diverses combinaisons de hauteur et de distance d'installation.
Appareil pour le bureau - conforme à la norme UNI EN12464
- UGR <19
UGR (Unified Glare Rating) = définit l'éblouissement direct produit par le luminaire en considérant l'espace où il se trouve.
- Luminance <3000cd/m2 @ 65 ° et plus. *de l'axe de l'appareil elle définit s'il peut provoquer des reflets gênants dans le VDT.*

Tre ist ein innovatives und absolut flexibles Modulsystem, das verschiedenste Beleuchtungsbedürfnisse erfüllt und gleichzeitig hohen Komfort und optimale Leistungen garantiert.
Das gesamte System basiert auf einer asymmetrischen Optik unter Nutzung zweier Achsen, wobei die Lichtemission der LED mit zwei verschiedenen Öffnungen (30° und 42°) kontrolliert wird. Im Vergleich zu herkömmlichen Darklight-Bürobeleuchtungssystemen, die den Räumen eine gleichförmige und normgerechte Beleuchtung verleihen, jedoch in keiner Weise auf die gefühlsmäßige Wahrnehmung des Lichts eingehen, ermöglicht Tre die Kontrolle und Gestaltung des Raumlichts unter Berücksichtigung des Wechsels von Licht und Schatten. Auf diese Weise bieten sich variable Gestaltungslösungen mit unterschiedlicher Wirkung auf Raum und Wahrnehmung.
Dank der verschiedenen Ausführungen kann die ideale Beleuchtungsleistung im Hinblick auf Installationshöhe und Abstand ausgewählt werden.
Büroleuchte gemäß Norm UNI EN12464
- UGR < 19
UGR (Unified Glare Rating) = definiert die direkt vom Gerät erzeugte Blendung im jeweiligen Raum.
-Die Luminanz <3000 cd/m2 ab 65° *von der Achse des Geräts legt fest, ob das Gerät lästige Abstrahlungen in den Videoterminals erzeugen kann.*

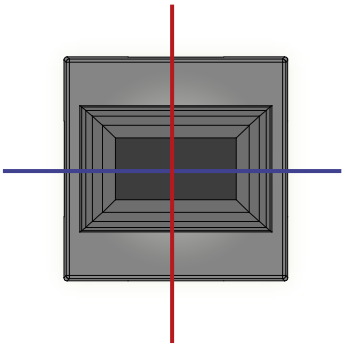
TRE REFLECTOR
PATENT PENDING MI2013A000509

Combinazioni di ottiche disposte con gli assi lungo orientamenti costanti o alternati definiscono le TRE matrici costruttive che definiscono e controllano il flusso emesso per soddisfare esigenze di illuminamento e UGR che variano al variare delle situazioni di installazione.

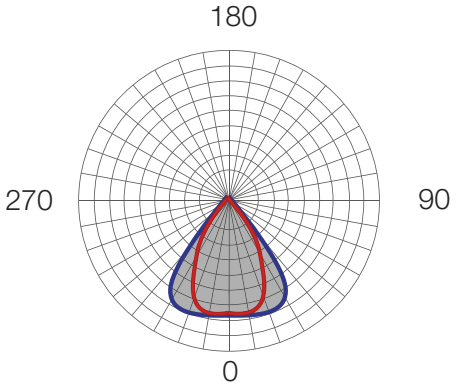
Des combinaisons d'optiques placées en fonction des axes, le long d'orientations constantes ou alternées, définissent les TROIS matrices de construction qui établissent et contrôlent le flux émis afin de répondre aux exigences d'éclairement et à la valeur UGR (Unified Glare Rating) qui varient en fonction des situations d'installation.



NARROW

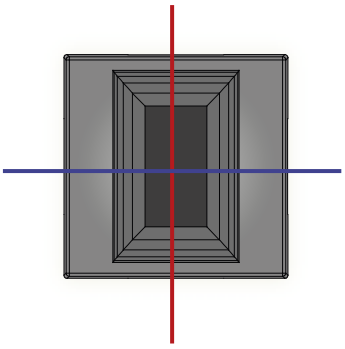


C0-180 (2x29°)
C90-270 (2x35°)

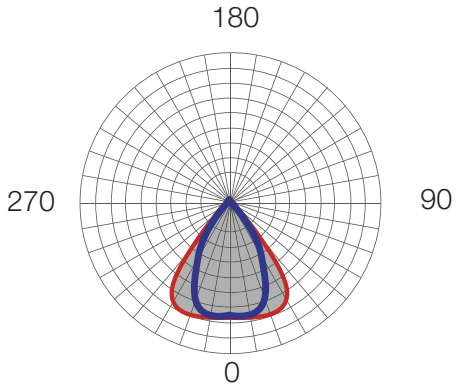


max 878 cd/kLm

WIDE

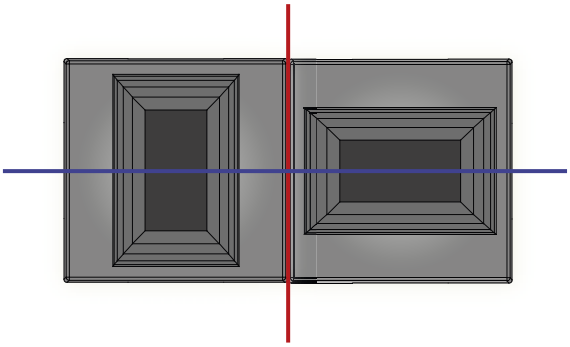


C0-180 (2x35°)
C90-270 (2x29°)

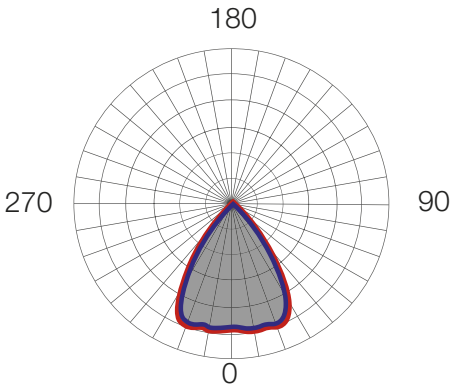


max 878 cd/kLm

MATRIX



C0-180 (2x33°)
C90-270 (2x33°)



max 878 cd/kLm

TRE REFLECTOR MODULES
PATENT PENDING MI2013A000509

The combinations of optics arranged with axes along constant or alternating guidelines define the THREE constructive matrices, which help regulate the light flow by meeting luminance requirements and UGR according to installation.

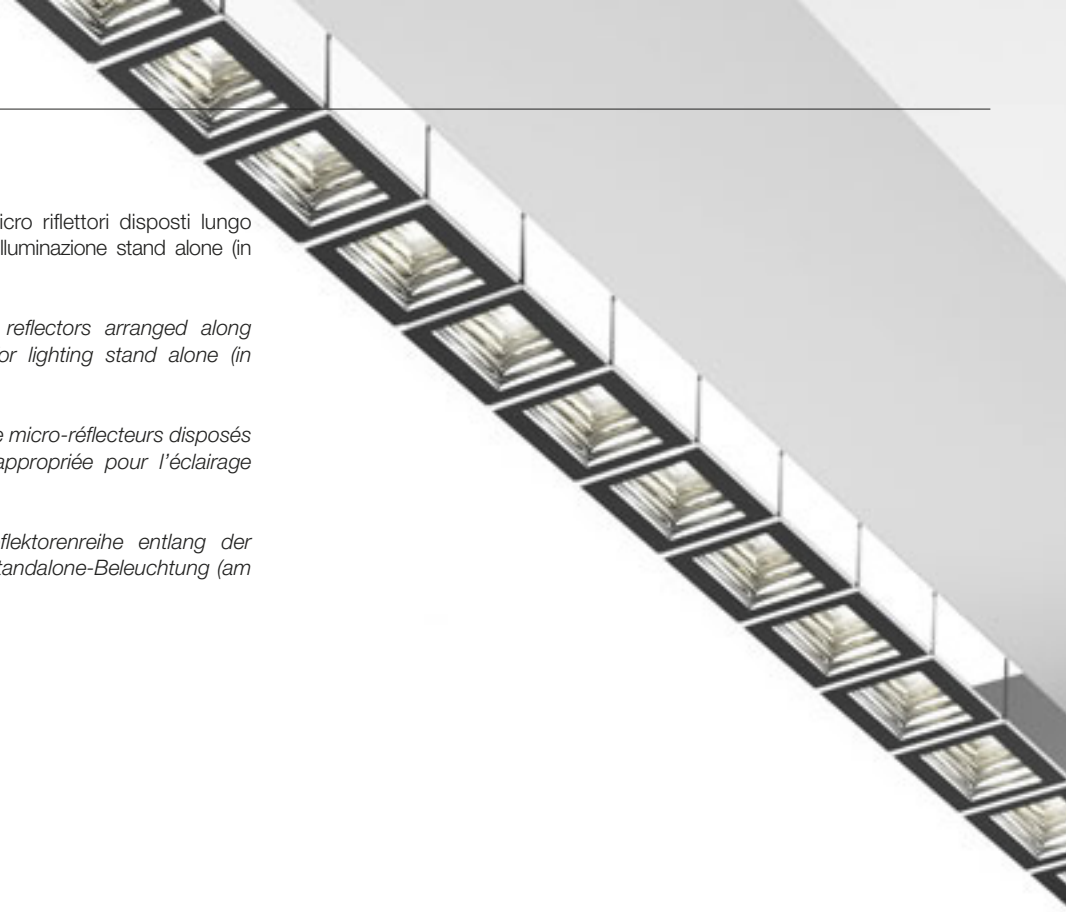
Die Kombination von Optiken, deren Achsen gleichbleibende oder wechselnde Ausrichtungen haben können, bilden die Konstruktionsprinzipien von TRE, die den Lichtstrom definieren und kontrollieren, um stets den je nach Installationssituation variierenden Anforderungen an Beleuchtung und UGR zu entsprechen.

LINEAR NARROW

LINEAR WIDE

SQUARE MATRIX

TRE NARROW



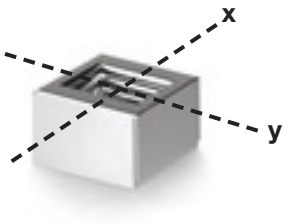
Apparecchio lineare costituito da una fila di micro riflettori disposti lungo l'asse y. Questo tipo di soluzione è adatto per illuminazione stand alone (in corrispondenza del tavolo).

Linear luminaire consists of a row of micro reflectors arranged along the y axis. This type of solution is suitable for lighting stand alone (in correspondence of the table).

Appareil linéaire qui se compose d'une rangée de micro-réflecteurs disposés le long de l'axe y. Ce type de solution est appropriée pour l'éclairage autonome (en correspondance de la table).

Lineares Gerät, bestehend aus eine Mikroreflektorenreihe entlang der Y-Achse. Diese Lösungsart eignet sich für die Standalone-Beleuchtung (am Tisch).

UGR<19
L<3000 cd/m² a 65° and more



h installation 1,9 m
working surface 0,8x1,6 m h0,8 m

example:
Tre 1,2 m linear module
19W - 1320 Lm

TRE WIDE

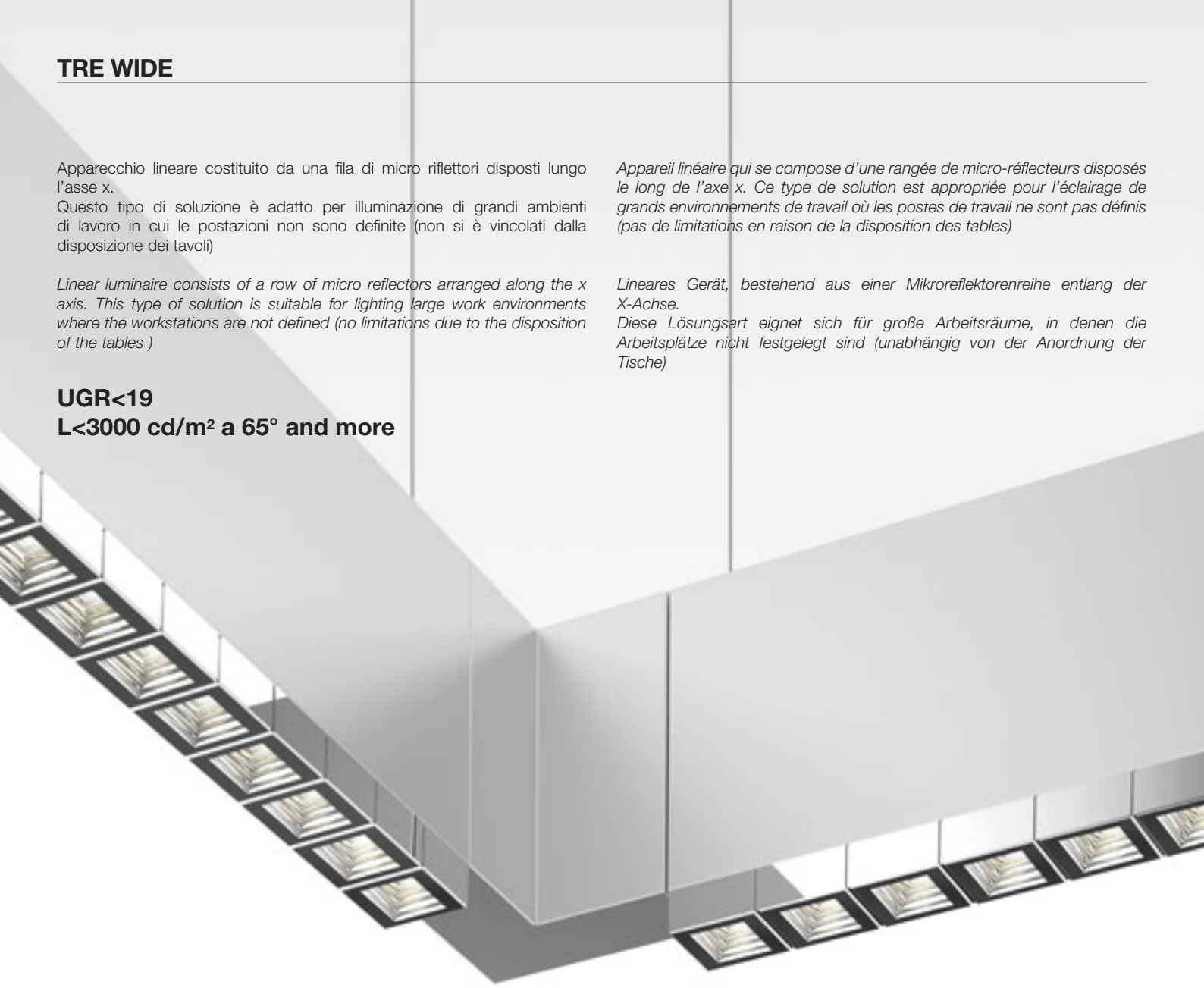
Apparecchio lineare costituito da una fila di micro riflettori disposti lungo l'asse x.
Questo tipo di soluzione è adatto per illuminazione di grandi ambienti di lavoro in cui le postazioni non sono definite (non si è vincolati dalla disposizione dei tavoli)

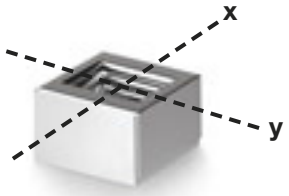
Linear luminaire consists of a row of micro reflectors arranged along the x axis. This type of solution is suitable for lighting large work environments where the workstations are not defined (no limitations due to the disposition of the tables)

Appareil linéaire qui se compose d'une rangée de micro-réflecteurs disposés le long de l'axe x. Ce type de solution est appropriée pour l'éclairage de grands environnements de travail où les postes de travail ne sont pas définis (pas de limitations en raison de la disposition des tables)

Lineares Gerät, bestehend aus einer Mikroreflektorenreihe entlang der X-Achse.
Diese Lösungsart eignet sich für große Arbeitsräume, in denen die Arbeitsplätze nicht festgelegt sind (unabhängig von der Anordnung der Tische)

UGR<19
L<3000 cd/m² a 65° and more





h installation 1,9 m
working surface 1,6x1,6 m h0,8 m

example:
Tre 1,2 m linear module wide
19W - 1320 Lm

TRE MATRIX

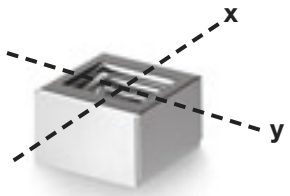
Apparecchio a Matrice quadrata di micro riflettori disposti con gli assi in modo alternato.
Soluzione adatta per gli ambienti in cui si richiede un'emissione luminosa rotosimmetrica.

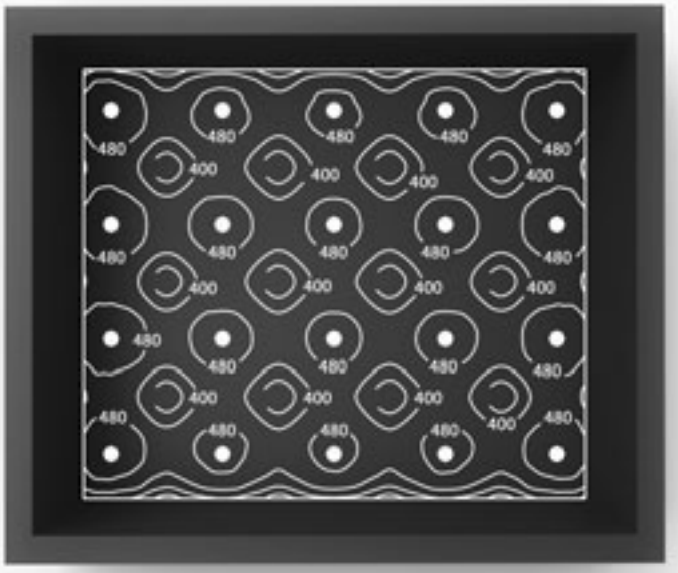
Square matrix luminaire consists of micro reflectors arranged alternatively.
This solution is suitable for environments in which a rotosymmetrical light emission is required.

Appareil qui se compose d'une matrice carrée à micro réflecteurs disposés alternativement.
Cette solution est appropriée pour des environnements dans lesquels on necessite une émission de lumière rotosymétrique.

Gerät mit viereckiger Mikroreflektormatrix, deren Achsen abwechselnd angeordnet sind.
Geeignete Lösung für Räume, die eine rotosymmetrische Lichtemission fordern.

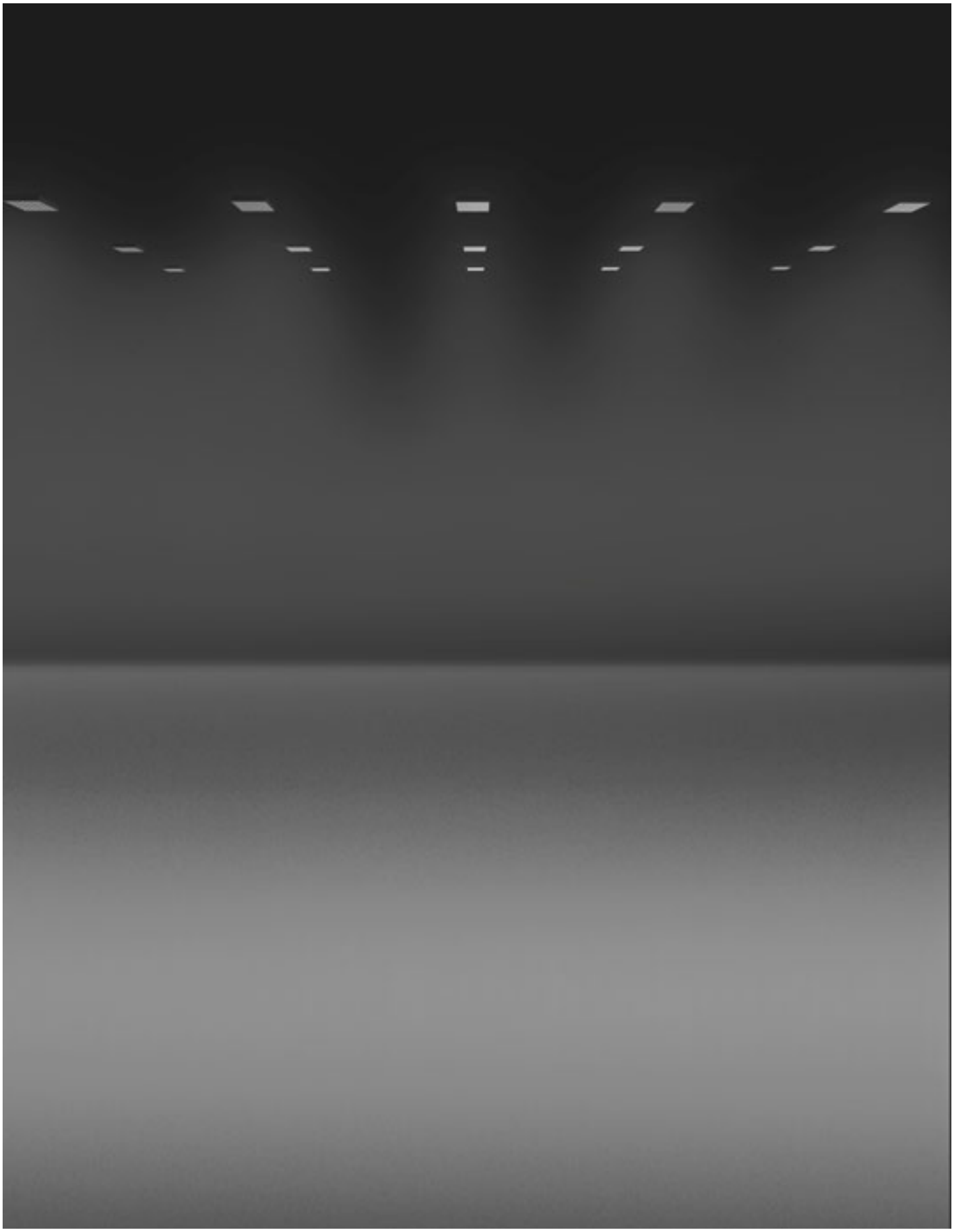
UGR<19
L<3000 cd/m² a 65° and more





h installation 3,2 m
installation interdistance 2,4 m

example:
Tre Matrix 240x240mm
40W - 2871Lm



TRE SYSTEM OVERVIEW

MATRIX
SMD

. 80x80mm PTOT 4,5W / **160x160mm** PTOT 18W / **240x240mm** PTOT 40W

pag. **188/190/192**

IP20

LED high efficiency
3000k Ra 85

OPTIONAL

LED high flux
3000k Ra 85

MATRIX
suspension

. 80x80mm PTOT 4,5W / **160x160mm** PTOT 18W / **240x240mm** PTOT 40W

pag. **188/190/192**

IP20

LED high efficiency
3000k Ra 85

OPTIONAL

LED high flux
3000k Ra 85

MATRIX
recessed

. 80x80mm PTOT 4,5W / **160x160mm** PTOT 18W / **240x240mm** PTOT 40W

pag. **188/190/192**

IP20

LED high efficiency
3000k Ra 85

OPTIONAL

LED high flux
3000k Ra 85

LINEAR
suspension
direct light

. 1200mm PTOT 19W / **800mm** PTOT 13W / **600mm** PTOT 9,5W / **400mm** PTOT 6W
. LENS NARROW / WIDE

pag. **180**

IP20

LED high efficiency
3000k Ra 85

OPTIONAL

LED high flux
3000k Ra 85

LINEAR
ceiling
direct light

. 1200mm PTOT 19W / **800mm** PTOT 13W / **600mm** PTOT 9,5W / **400mm** PTOT 6W
. LENS NARROW /WIDE

pag. **180**

IP20

LED high efficiency
3000k Ra 85

OPTIONAL

LED high flux
3000k Ra 85

LINEAR
suspension
indirect light

. 1200mm PTOT 16W / **800mm** PTOT 9,5W / **600mm** PTOT 6W / **400mm** PTOT 3W

pag. **184**

IP20

LED high efficiency
3000k Ra 85

OPTIONAL

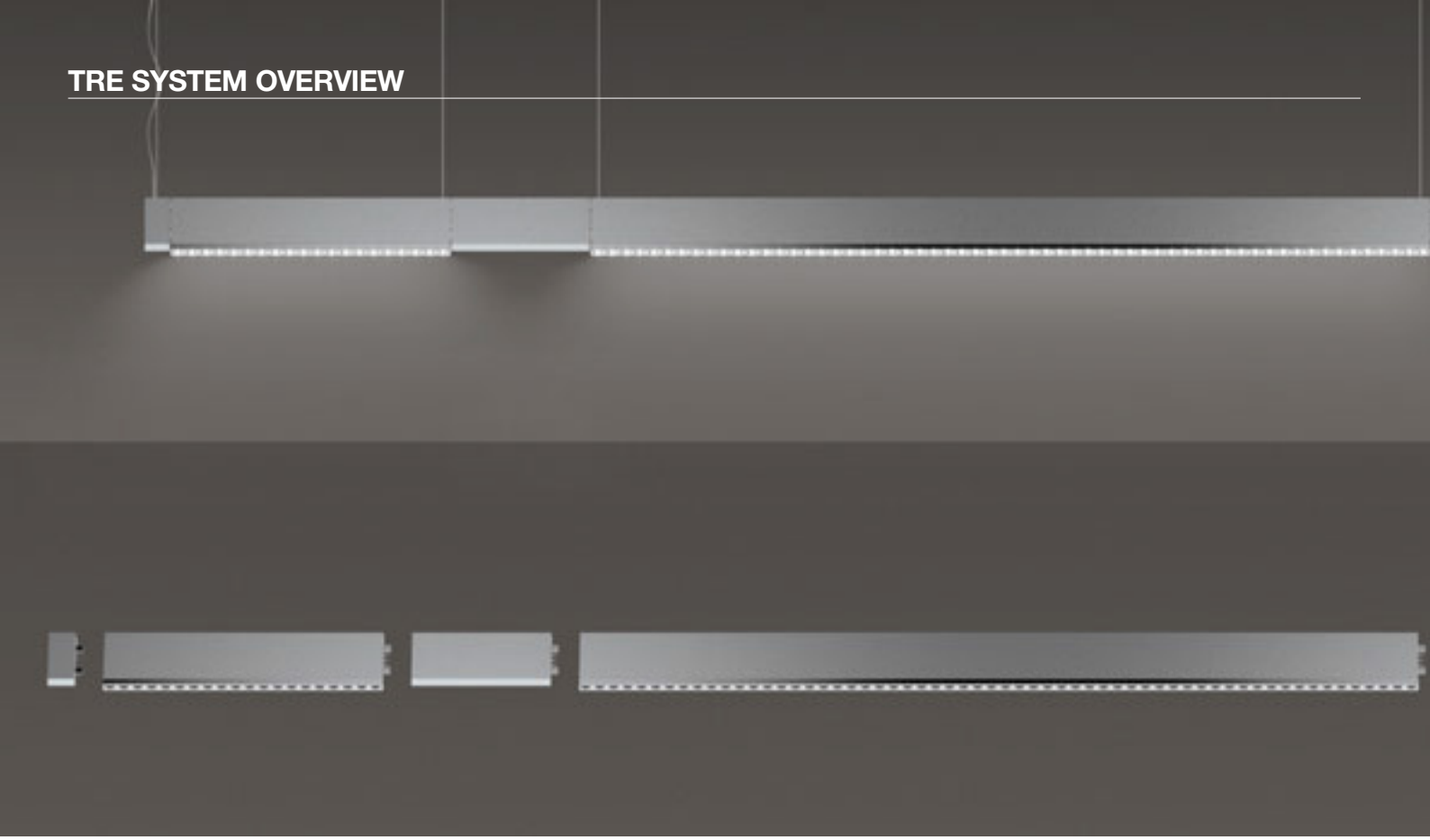
LED high flux
3000k Ra 85

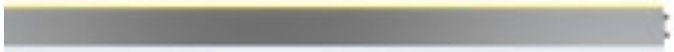
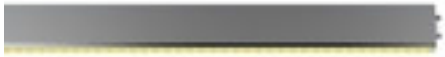
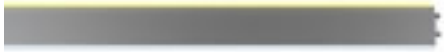
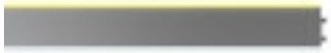
connecting modules

. linear connecting element 400mm /
linear connecting element 200mm /
90° connecting element / closing element

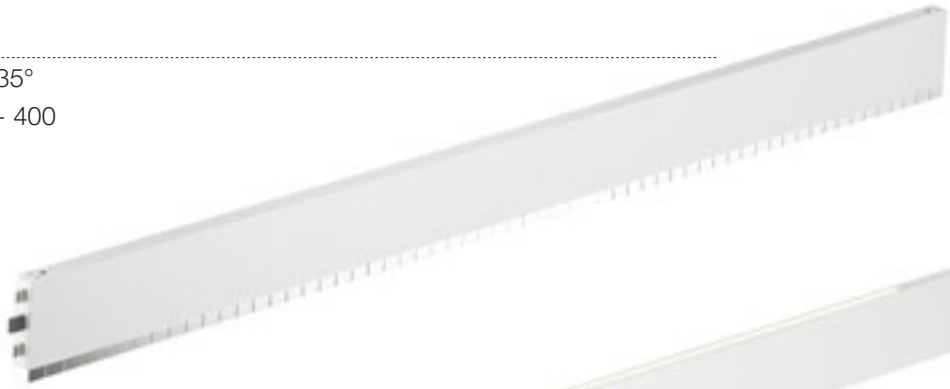
pag. **182**

TRE SYSTEM OVERVIEW



	MODULES	η Lm / W	R %	η lampada Lm / W
1200 / DIRECT EMISSION	**1200 / direct emission** LED flux 1552 Lm Lamp flux 1320 Lm P_{LED} 15W - P_{TOT} 19W	**103**	**85%**	**70**
1200 / INDIRECT EMISSION 	**1200 / indirect emission** LED flux 1300Lm Lamp flux 1100 Lm P_{LED} 12,5W - P_{TOT} 16W	**104**	**85%**	**68**
800 / DIRECT EMISSION 	**800 / direct emission** LED flux 1035 Lm Lamp flux 880 Lm P_{LED} 10W - P_{TOT} 13W	**103**	**85%**	**70**
800 / INDIRECT EMISSION 	**800 / indirect emission** LED flux 775 Lm Lamp flux 660 Lm P_{LED} 7,5W - P_{TOT} 9,5W	**104**	**85%**	**68**
600 / DIRECT EMISSION	**600 / direct emission** LED flux 775 Lm Lamp flux 660 Lm P_{LED} 7,5W - P_{TOT} 9,5W	**103**	**85%**	**70**
600 / INDIRECT EMISSION 	**600 / indirect emission** LED flux 520 Lm Lamp flux 440 Lm P_{LED} 5W - P_{TOT} 6W	**104**	**85%**	**68**
400 / DIRECT EMISSION	**400 / direct emission** LED flux 520 Lm Lamp flux 440 Lm P_{LED} 5W - P_{TOT} 6W	**103**	**85%**	**70**
400 / INDIRECT EMISSION	**400 / indirect emission** LED flux 260 Lm Lamp flux 220 Lm P_{LED} 2,5W - P_{TOT} 3W	**104**	**85%**	**68**

DIRECT EMISSION
MAIN AXIS 2X29° / 2X35°
MM 1200 - 800 - 600 - 400



INDIRECT DIFFUSE EMISSION
MM 1200 - 800 - 600 - 400

LINEAR CONNECTION ELEMENT
MM 400 - 200

CLOSING ELEMENT

CONNECTING PLUG

90° CONNECTION ELEMENT

TRE NARROW / TRE WIDE DIRECT LIGHT

Patent pending N° **MI2013A000509**

	STANDARD	OPTIONAL
LED	LED high efficiency 3000K Ra 80	LED high flux 3000K Ra 80

COLOUR

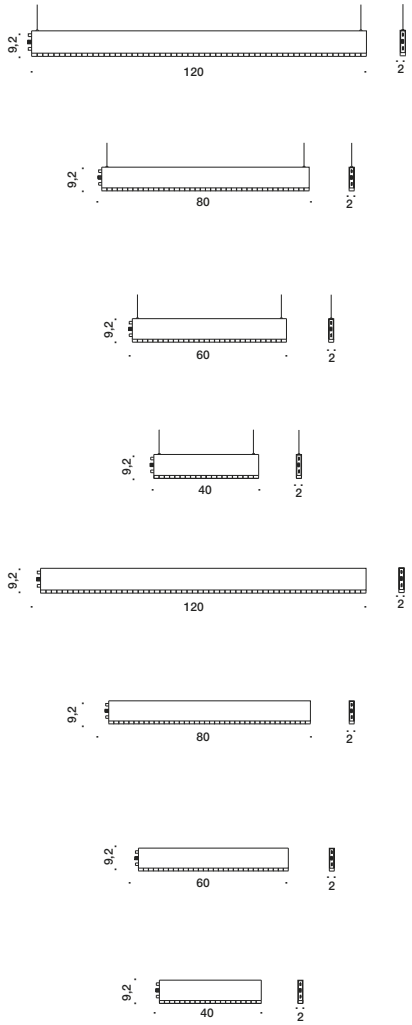
◇ ◇ ◇

SYMBOLS IP20

LED Service life L70(6K) > 36300h

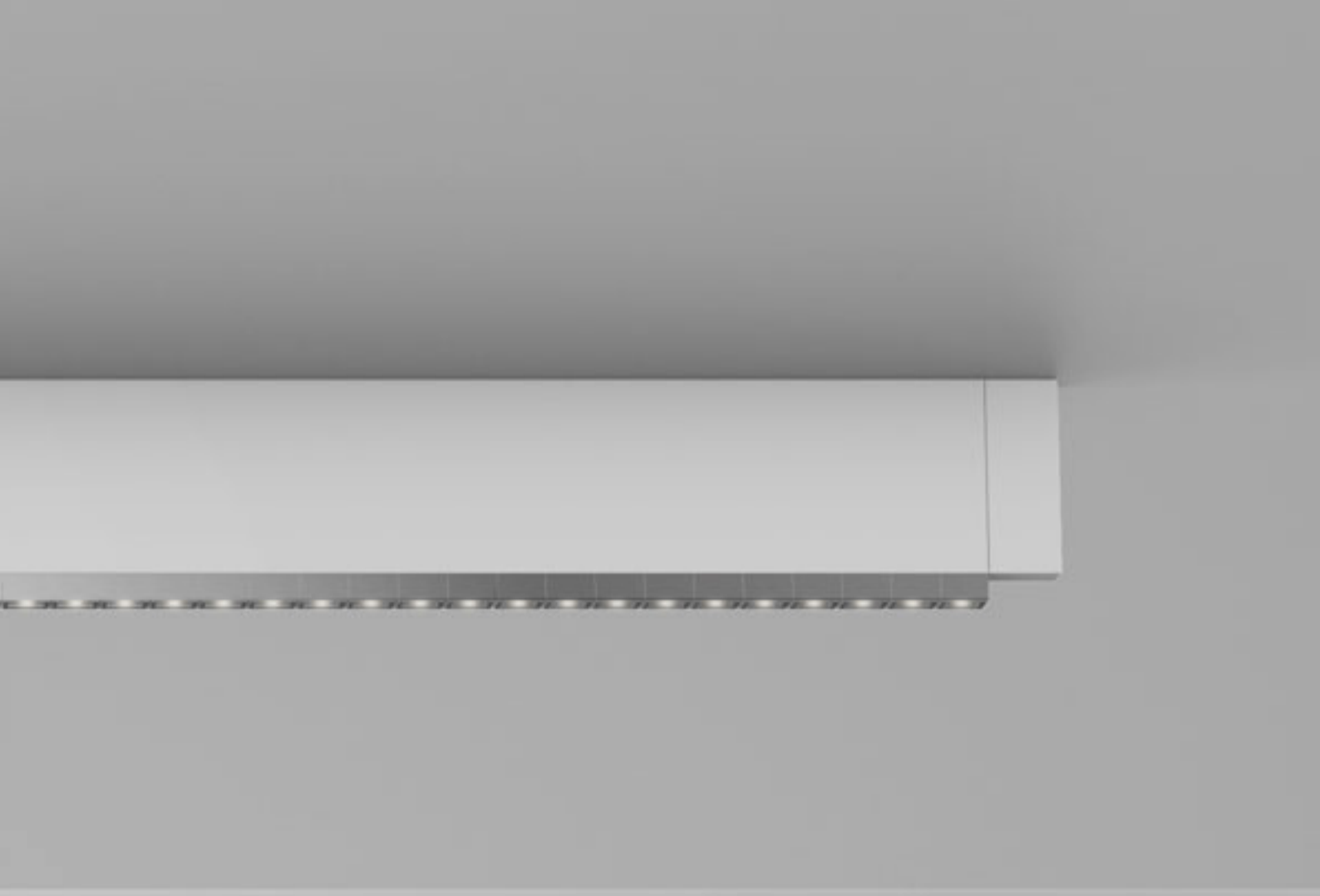
energy label 1

MATERIALS Alluminio lucidato o verniciato - ABS metallizzato, polished or painted aluminium - aluminium peint, ABS métallisé - lackiertes Aluminium, metallisiert ABS



VERSION	OPTICS	CODE	CODE COLOUR
1200 suspension direct LED flux 1552 Lm Lamp flux 1320 Lm P_{LED} 15W - P_{TOT} 19W	**2X29°** main axis	**DD0330A__A1**	◇ 00 ◇ 10 ◇ 01
	2X35° main axis	**DD0330A__A2**	◇ 00 ◇ 10 ◇ 01
800 suspension direct LED flux 1035 Lm Lamp flux 880 Lm P_{LED} 10W - P_{TOT} 13W	**2X29°** main axis	**DD0330B__A1**	◇ 00 ◇ 10 ◇ 01
	2X35° main axis	**DD0330B__A2**	◇ 00 ◇ 10 ◇ 01
600 suspension direct LED flux 775 Lm Lamp flux 660 Lm P_{LED} 7,5W - P_{TOT} 9,5W	**2X29°** main axis	**DD0330C__A1**	◇ 00 ◇ 10 ◇ 01
	2X35° main axis	**DD0330C__A2**	◇ 00 ◇ 10 ◇ 01
400 suspension direct LED flux 520 Lm Lamp flux 440 Lm P_{LED} 5W - P_{TOT} 6W	**2X29°** main axis	**DD0330D__A1**	◇ 00 ◇ 10 ◇ 01
	2X35° main axis	**DD0330D__A2**	◇ 00 ◇ 10 ◇ 01
1200 ceiling direct LED flux 1552 Lm Lamp flux 1320 Lm P_{LED} 15W - P_{TOT} 19W	**2X29°** main axis	**DD0330E__A1**	◇ 00 ◇ 10 ◇ 01
	2X35° main axis	**DD0330E__A2**	◇ 00 ◇ 10 ◇ 01
800 ceiling direct LED flux 1035 Lm Lamp flux 880 Lm P_{LED} 10W - P_{TOT} 13W	**2X29°** main axis	**DD0330F__A1**	◇ 00 ◇ 10 ◇ 01
	2X35° main axis	**DD0330F__A2**	◇ 00 ◇ 10 ◇ 01
600 ceiling direct LED flux 775 Lm Lamp flux 660 Lm P_{LED} 7,5W - P_{TOT} 9,5W	**2X29°** main axis	**DD0330G__A1**	◇ 00 ◇ 10 ◇ 01
	2X35° main axis	**DD0330G__A2**	◇ 00 ◇ 10 ◇ 01
400 ceiling direct LED flux 520 Lm Lamp flux 440 Lm P_{LED} 5W - P_{TOT} 6W	**2X29°** main axis	**DD0330H__A1**	◇ 00 ◇ 10 ◇ 01
	2X35° main axis	**DD0330H__A2**	◇ 00 ◇ 10 ◇ 01

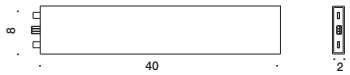
measures in cm

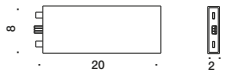


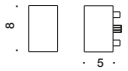
LINEAR CONNECTION ELEMENT

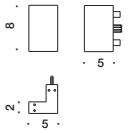
90° CONNECTION ELEMENT

CLOSING ELEMENT









VERSION	CODE	CODE COLOUR
LINEAR CONNECTION **suspension** **40 cm**	**DD0330AMC2__**	◆ 00 ◇ 10 ◆ 01
LINEAR CONNECTION **ceiling** **40 cm**	**DD0330EMC2__**	◆ 00 ◇ 10 ◆ 01
LINEAR CONNECTION **suspension** **20 cm**	**DD0330AMC1__**	◆ 00 ◇ 10 ◆ 01
LINEAR CONNECTION **ceiling** **20 cm**	**DD0330EMC1__**	◆ 00 ◇ 10 ◆ 01
CONNECTING PLUG **suspension**	**DD0330ATPA__**	◆ 00 ◇ 10 ◆ 01
CONNECTING PLUG **ceiling**	**DD0330ETPA__**	◆ 00 ◇ 10 ◆ 01
CLOSING ELEMENT	**DD0330ATPC__**	◆ 00 ◇ 10 ◆ 01
90° CONNECTION	**DD0330AKTC__**	◆ 00 ◇ 10 ◆ 01

measures in cm

To compose the complete code add the colour numbers in the spaces __ in the lamp code.

TRE INDIRECT LIGHT

	STANDARD	OPTIONAL
LED	LED high efficiency 3000K Ra 80	LED high flux 3000K Ra 80

COLOUR

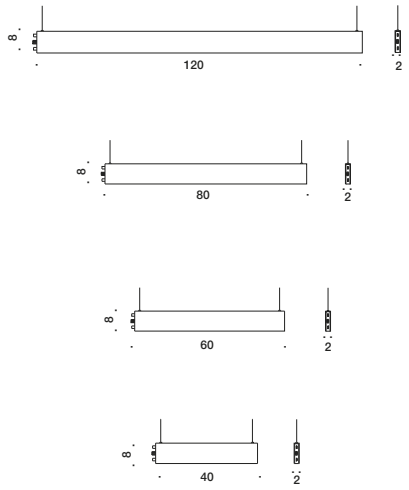
◆ ◇ ◆

SYMBOLS IP20

LED Service life L70(6K) > 36300h

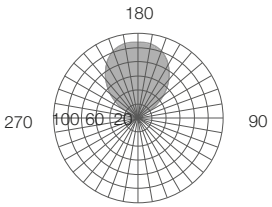
energy label 1

MATERIALS Alluminio lucidato o verniciato - ABS metallizzato, polished or painted aluminium - aluminium peint, ABS métallisé - lackiertes Aluminium, metallisiert ABS



VERSION	CODE	CODE COLOUR
1200 indirect LED flux 1300Lm Lamp flux 1100 Lm P_{LED} 12,5W - P_{TOT} 16W	**DD0331A__**	◆ 00 ◇ 10 ◆ 02
800 indirect LED flux 775 Lm Lamp flux 660 Lm P_{LED} 7,5W - P_{TOT} 9,5W	**DD0331B__**	◆ 00 ◇ 10 ◆ 02
600 indirect LED flux 520 Lm Lamp flux 440 Lm P_{LED} 5W - P_{TOT} 6W	**DD0331C__**	◆ 00 ◇ 10 ◆ 02
400 indirect LED flux 260 Lm Lamp flux 220 Lm P_{LED} 2,5W - P_{TOT} 3W	**DD0331D__**	◆ 00 ◇ 10 ◆ 02

measures in cm

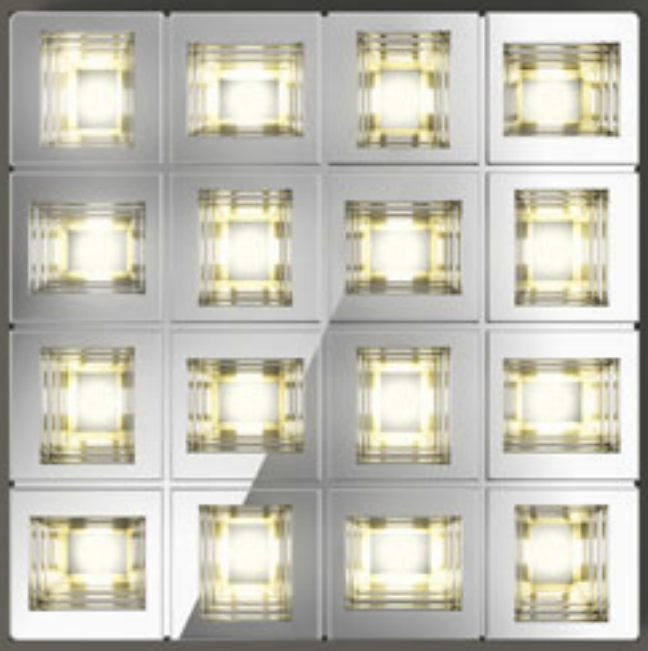


max 318 cd/kLm

TRE MATRIX *Carlotta de Bevilacqua, Teresa Caserta 2013*

8 cm

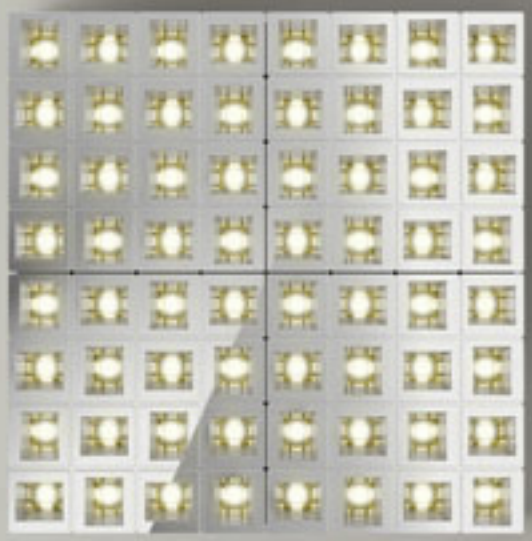
8 cm



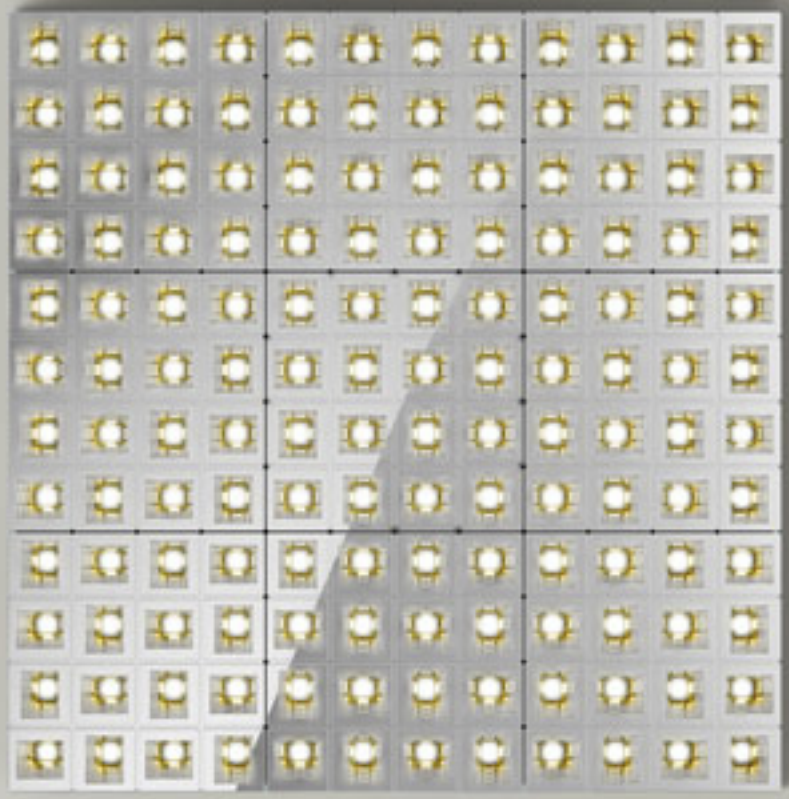
4,3 cm

1:1

1 MODULE



4 MODULES



9 MODULES

TRE MATRIX 80

Patent pending N° **MI2013A000509**

	STANDARD	OPTIONAL
LED	LED high efficiency 3000K Ra 80	LED high flux 3000K Ra 80

COLOUR

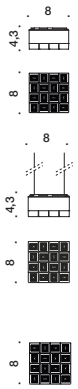
◆ ◇ ◆

SYMBOLS IP20

LED Service life L70(6K) > 36300h

energy label 1

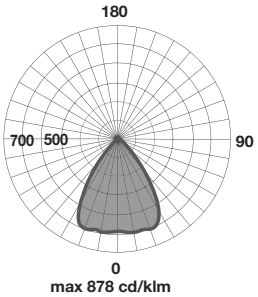
MATERIALS Alluminio lucidato o verniciato - ABS metallizzato, polished or painted aluminium - aluminium peint, ABS métallisé - lackiertes Aluminium, metallisiert ABS

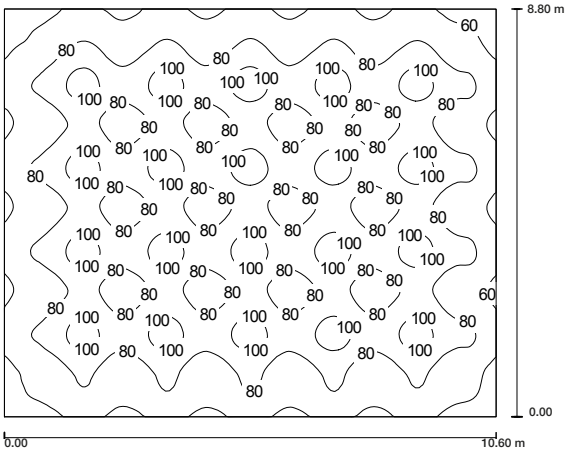


VERSION	CODE	CODE COLOUR
80X80 SMD - 16 LED LED flux 374 Lm Lamp flux 319 Lm P_{LED} 3,6W - P_{TOT} 4,5W	**DD0332A__S**	◆ 00 ◇ 10 ◆ 01
80X80 suspension - 16 LED LED flux 374 Lm Lamp flux 319 Lm P_{LED} 3,6W - P_{TOT} 4,5W	**DD0332A__**	◆ 00 ◇ 10 ◆ 01
80X80 recessed - 16 LED LED flux 374 Lm Lamp flux 319 Lm P_{LED} 3,6W - P_{TOT} 4,5W	**DD0332A__I**	◆ 00 ◇ 10 ◆ 01

measures in cm

TRE QUADRA 80 – LED flux 374 Lm – 3000K Ra 80 - tolerance of ± 7%





INSTALLATION EXAMPLE

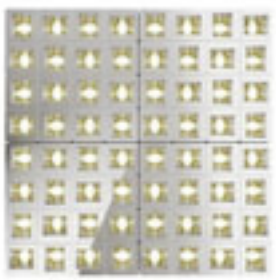
Tre Quadra 80x80
Lamp power 4,5 W
Lamp flux 319 Lm

h installation 3,2 m
lamp installation distance 1,8 m
lux on working surface h0,8 m

Emed 80 lux
Emin/med 0,5
UGR < 19

TRE MATRIX 160

Patent pending N° **MI2013A000509**



	STANDARD	OPTIONAL
LED	LED high efficiency 3000K Ra 80	LED high flux 3000K Ra 80

COLOUR

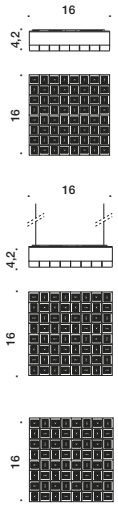
◆ ◇ ◆

SYMBOLS IP20

LED Service life L70(6K) > 36300h

energy label 1

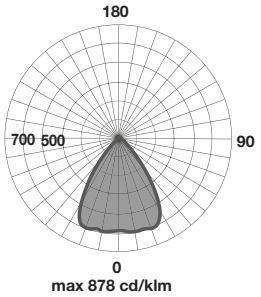
MATERIALS Alluminio lucidato o verniciato - ABS metallizzato, polished or painted aluminium - aluminium peint, ABS métallisé - lackiertes Aluminium, metallisiert ABS

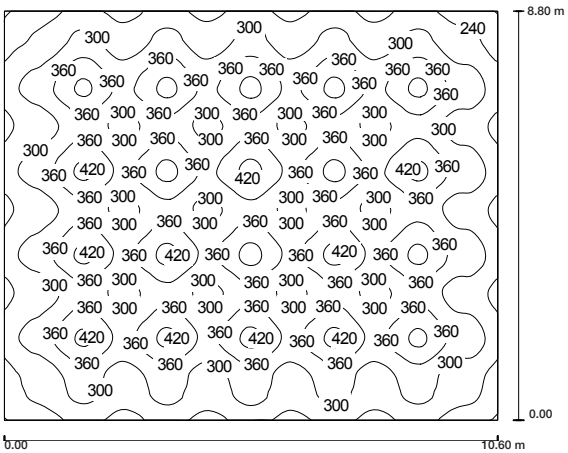


VERSION	CODE	CODE COLOUR
160X160 SMD - 64 LED LED flux 1496 Lm Lamp flux 1276 Lm P_{LED} 14W - P_{TOT} 18W	**DD0332B__S**	◆ 00 ◇ 10 ◆ 01
160X160 suspension - 64 LED LED flux 1496 Lm Lamp flux 1276 Lm P_{LED} 14W - P_{TOT} 18W	**DD0332B__**	◆ 00 ◇ 10 ◆ 01
160X160 recessed - 64 LED LED flux 1496 Lm Lamp flux 1276 Lm P_{LED} 14W - P_{TOT} 18W	**DD0332B__I**	◆ 00 ◇ 10 ◆ 01

measures in cm

TRE QUADRA 160 – LED flux 1496 Lm — 3000K Ra 80 - tolerance of ± 7%





INSTALLATION EXAMPLE

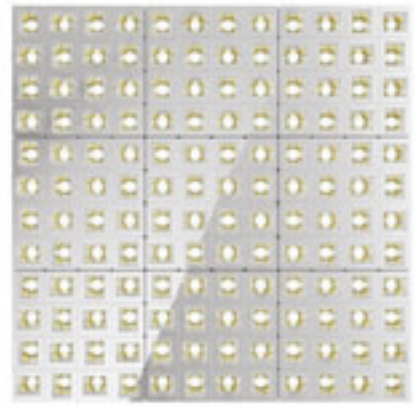
Tre Quadra160x160
Lamp power 18 W
Lamp flux 1276 Lm

h installation 3,2 m
lamp installation distance 1,8 m
lux on working surface h0,8 m

Emed 320lux
Emin/med 0,5
UGR < 19

TRE MATRIX 240

Patent pending N° **MI2013A000509**



	STANDARD	OPTIONAL
LED	LED high efficiency 3000K Ra 80	LED high flux 3000K Ra 80

COLOUR

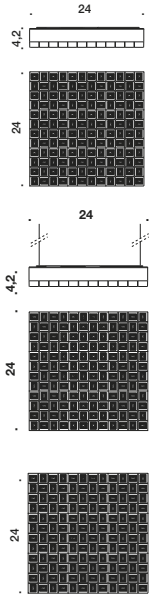
◆ ◇ ◆

SYMBOLS IP20

LED Service life L70(6K) > 36300h

energy label 1

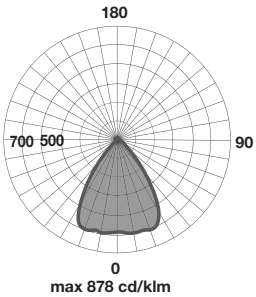
MATERIALS Alluminio lucidato o verniciato - ABS metallizzato, polished or painted aluminium - aluminium peint, ABS métallisé - lackiertes Aluminium, metallisiert ABS

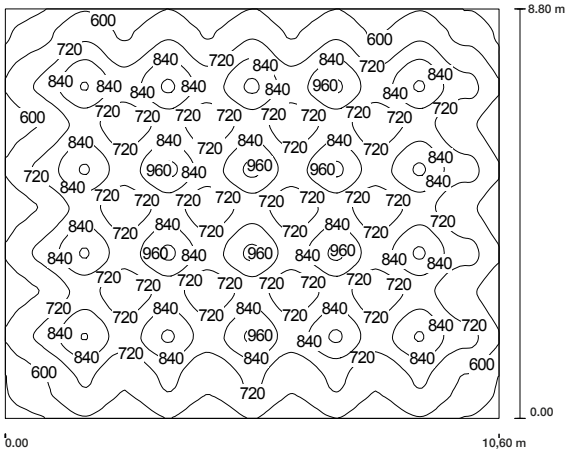


VERSION	CODE	CODE COLOUR
240x240 SMD -144 LED LED flux 3366 Lm Lamp flux 2871 Lm P_{LED} 32W - P_{TOT} 40W	**DD0332C__S**	◆ 00 ◇ 10 ◆ 02
240x240 suspension -144 LED LED flux 3366 Lm Lamp flux 2871 Lm P_{LED} 32W - P_{TOT} 40W	**DD0332C__**	◆ 00 ◇ 10 ◆ 02
240x240 recessed -144 LED LED flux 3366 Lm Lamp flux 2871 Lm P_{LED} 32W - P_{TOT} 40W	**DD0332C__I**	◆ 00 ◇ 10 ◆ 02

measures in cm

TRE QUADRA 240 – LED flux 3366 Lm — 3000K Ra 80 - tolerance of ± 7%





INSTALLATION EXAMPLE

Tre Quadra 240x240
Lamp power 40W
Lamp flux 2871 Lm

h installation 3,2 m
lamp installation distance 1,8 m
lux on working surface h0,8 m

Emed 730lux
Emin/med 0,5
UGR < 19

SOL *Marco Zanuso Jr, Christophe Mathieu 2013*

SOL OPTICAL FEATURES

Sol esprime attraverso la trasparenza e l'immaterialità innovativi principi di calcolo ottico legati alle possibilità offerte dalla tecnologia LED.
Gli elementi che compongono Sol sono tutti essenziali al suo funzionamento: alla geometria del gruppo ottico che definisce il corpo si aggiunge un disco forato a raggiera che ottimizza la dissipazione.
Differenti composizioni del gruppo ottico definiscono emissioni e performance di luce diversificate, morbide nell'ambiente ma sempre perfettamente controllate.
Assenza di ombre e precisione nella definizione della proiezione di luce rendono Sol paragonabile ad un apparecchio professionale che al tempo stesso però scompare attraverso la trasparenza nella matericità.

Sol is made of transparent materials and innovative optical computing principles of LED technology.
The elements that form Sol are essential for its functioning: the geometry of the optical unit is added a radial shaped perforated face that facilitates the dissipation: different compositions of the optical unit define different light emissions and performances, soft in the space but always perfeclty controlled.
The absence of shadpws and the precise definition of the light projection make Sol comparable to a professional device while the product's transprency becomes the salient trait.

WIDE BEAM

ADJUSTABLE ALLUMINUM BODY
- hosting light engine
- air convection heatsinking

OLOGRAPHIC FILTER

PROJECTOR LENS

SOL OPTICAL FEATURES

Sol exprime à travers la transparence et l'immatérialité innovantes des principes de calcul optique liés aux possibilités offertes par la technologie à LED.
Les éléments qui composent Sol sont tous essentiels pour son fonctionnement : à la géométrie du groupe optique, qui définit le corps, s'ajoute un disque percé à rayon qui optimise la dissipation.
Différentes combinaisons du groupe optique réalisent des émissions et des performances de lumière diversifiées, souples dans le milieu mais parfaitement contrôlées.
Sol ne forme aucune ombre ; il offre une précision dans la définition de la projection de lumière semblable à un appareil professionnel mais il disparaît derrière la transparence de la matière.

Die Transparenz und Leichtigkeit von Sol basiert auf innovativen optischen Berechnungsmethoden, die dank der LED-Technologie möglich sind.
Alle Bestandteile von Sol sind von wesentlicher Bedeutung für die Funktionsfähigkeit der Leuchte. Die optische Einheit, aus der das Leuchtengehäuse besteht, wird durch eine am Außenrand gelochte Scheibe ergänzt, die die Lichtzerstreuung optimiert.
Die optische Einheit kann vielseitig angeordnet werden, so dass unterschiedliche Lichtemissionen und Beleuchtungsleistungen erzielt werden können, die eine behagliche Atmosphäre schaffen und gleichzeitig stets perfekt kontrollierbar sind.
Dank der Schattenfreiheit und einer präzisen Lichtausstrahlung ist Sol mit professionellen Leuchten vergleichbar, wobei sie durch ihre Transparenz eine Einheit mit der Materie bildet.

NARROW AND MEDIUM BEAM

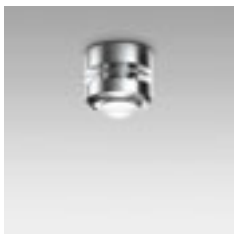
SOL OVERVIEW

spot

. 1 LED P_{TOT} 14W
. LENS **30° / 45° / 70°**

IP20

pag. **200**



wall / ceiling

. 1 LED P_{TOT} 14W
. LENS **30° / 45° / 70°**

IP20

pag. **202**

suspension

. 1 LED P_{TOT} 14W
. LENS **30° / 45° / 70°**

IP20

pag. **204**

table

. 1 LED P_{TOT} 14W
. LENS **30° / 45° / 70°**

IP20

pag. **206**

floor

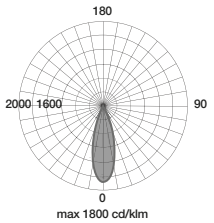
. 1 LED P_{TOT} 14W
. LENS **30° / 45° / 70°**

IP20

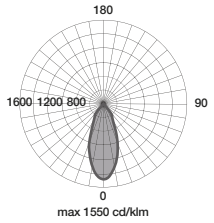
pag. **208**

SOL OPTICS

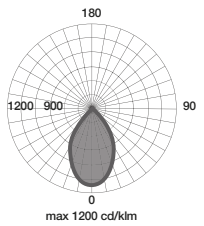
30° - 1 LED x 12 W - lamp flux 930 Lm	η LED Lm/W	R	η lamp Lm/W
CCT 3000 K - Ra 80+	86	90%	66



45° - 1 LED x 12 W - lamp flux 905 Lm	η LED Lm/W	R	η lamp Lm/W
CCT 3000 K - Ra 80+	86	90%	66



70° - 1 LED x 12 W - 70° - lamp flux 875 Lm	η LED Lm/W	R	η lamp Lm/W
CCT 3000 K - Ra 80+	86	85%	63



SOL SPOT

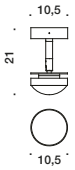
SYMBOLS IP20 0,95 kg

LED life 80.000 hours

LENSES: 30°,45°, 70°

energy label 1

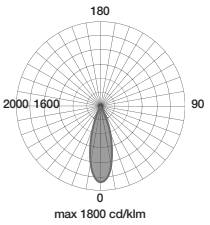
MATERIALS Metallo verniciato - metacrilato, painted metal - methacrylate, metal paint - métacrylate, lackiertes Metall - Metakrylat

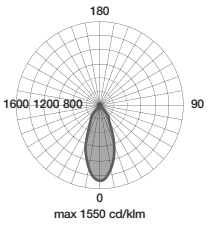


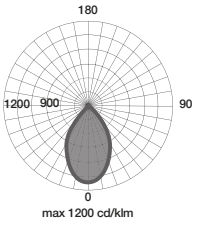
measures in cm

LIGHT SOURCE	LENS	COLOUR	CODE
1 LED LED flux 1030 Lm P_{LED} 12 W - P_{TOT} 14 W	**30°**	ALUMINIUM	**DMZ2357C00A1**
	45°	ALUMINIUM	**DMZ2357C00A2**
	70°	ALUMINIUM	**DMZ2357C00A3**

1 LED x 12 W - CCT 3000 K - Ra 80+	η LED Lm/W	R	η lamp Lm/W
30° - lamp flux 930 Lm	86	90%	66
45° - lamp flux 905 Lm	86	90%	66
70° - lamp flux 875 Lm	86	85%	63







SOL WALL / CEILING

SYMBOLS IP20 0,82 kg

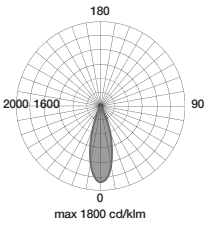
LED life 80.000 hours
LENSES: 30°,45°, 70°
energy label 1

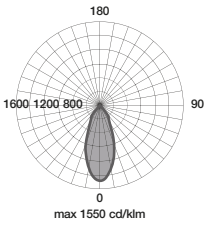
MATERIALS Metallo verniciato - metacrilato, painted metal - methacrylate, metal paint - métacrylate, lackiertes Metall - Metakrylat

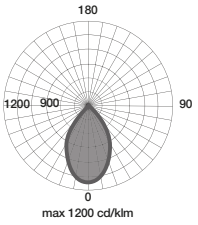
measures in cm

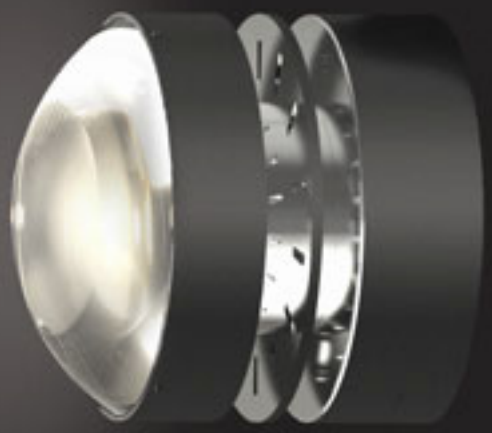
LIGHT SOURCE	LENS	COLOUR	CODE
1 LED LED flux 1030 Lm P_{LED} 12 W - P_{TOT} 14 W	**30°**	ALUMINIUM	**DMZ2357B00A1**
	45°	ALUMINIUM	**DMZ2357B00A2**
	70°	ALUMINIUM	**DMZ2357B00A3**

1 LED x 12 W - CCT 3000 K - Ra 80+	η LED Lm/W	R	η lamp Lm/W
30° - lamp flux 930 Lm	86	90%	66
45° - lamp flux 905 Lm	86	90%	66
70° - lamp flux 875 Lm	86	85%	63







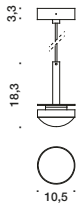


SOL SUSPENSION

SYMBOLS IP20 0,95 kg

LED life 80.000 hours
LENSES: 30°,45°, 70°
energy label 1

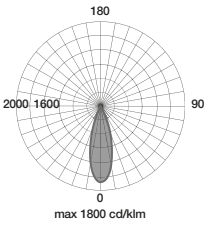
MATERIALS Metallo verniciato - metacrilato, painted metal - methacrylate, metal paint - métacrylate, lackiertes Metall - Metakrylat

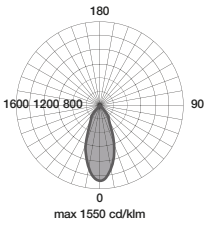


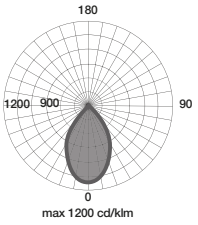
measures in cm

LIGHT SOURCE	LENS	COLOUR	CODE
1 LED LED flux 1030 Lm P_{LED} 12 W - P_{TOT} 14 W	**30°**	ALUMINIUM	**DMZ2357A00A1**
	45°	ALUMINIUM	**DMZ2357A00A2**
	70°	ALUMINIUM	**DMZ2357A00A3**

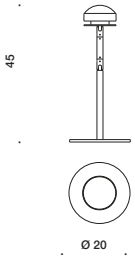
1 LED x 12 W - CCT 3000 K - Ra 80+	η LED Lm/W	R	η lamp Lm/W
30° - lamp flux 930 Lm	86	90%	66
45° - lamp flux 905 Lm	86	90%	66
70° - lamp flux 875 Lm	86	85%	63







SOL TABLE



measures in cm

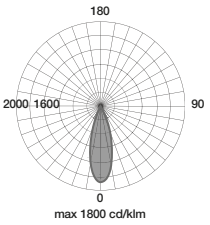
SYMBOLS IP20

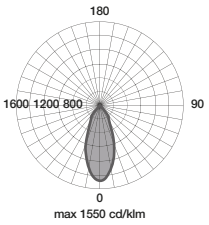
LED life 80.000 hours
LENSES: 30°,45°, 70°
energy label 1

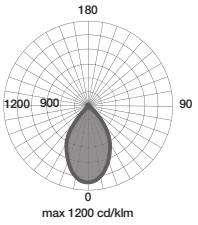
MATERIALS Metallo verniciato - metacrilato, painted metal - methacrylate, metal paint - métacrylate, lackiertes Metall - Metakrylat

LIGHT SOURCE	LENS	COLOUR	CODE
1 LED LED flux 1030 Lm P_{LED} 12 W - P_{TOT} 14 W	**30°**	ALUMINIUM	**DMZ2357D00A1**
	45°	ALUMINIUM	**DMZ2357D00A2**
	70°	ALUMINIUM	**DMZ2357D00A3**

1 LED x 12 W - CCT 3000 K - Ra 80+	η LED Lm/W	R	η lamp Lm/W
30° - lamp flux 930 Lm	86	90%	66
45° - lamp flux 905 Lm	86	90%	65
70° - lamp flux 875 Lm	86	85%	63

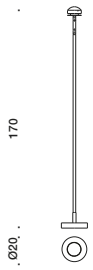






18
IX
SET
TEM
BRE
DOM

SOL FLOOR



measures in cm

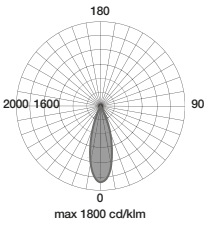
SYMBOLS IP20

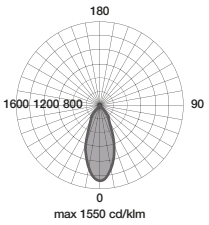
LED life 80.000 hours
LENSES: 30°,45°, 70°
energy label 1

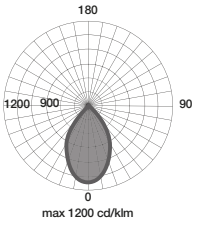
MATERIALS Metallo verniciato - metacrilato, painted metal - methacrylate, metal paint - métacrylate, lackiertes Metall - Metakrylat

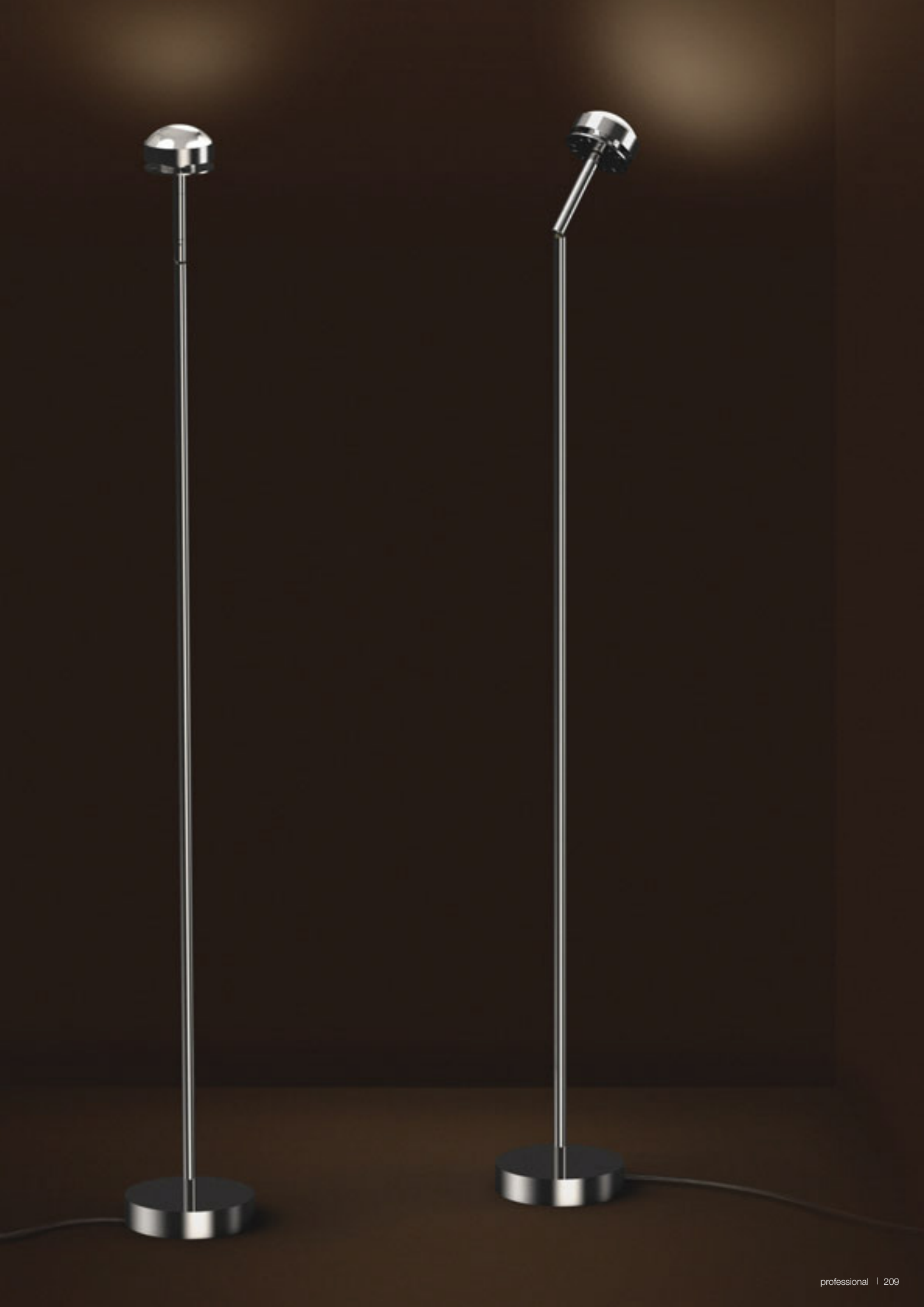
LIGHT SOURCE	LENS	COLOUR	CODE
1 LED LED flux 1030 Lm P_{LED} 12 W - P_{TOT} 14 W	**30°**	ALUMINIUM	**DMZ2357E00A1**
	45°	ALUMINIUM	**DMZ2357E00A2**
	70°	ALUMINIUM	**DMZ2357E00A3**

1 LED x 12 W - CCT 3000 K - Ra 80+	η LED Lm/W	R	η lamp Lm/W
30° - lamp flux 930 Lm	86	90%	66
45° - lamp flux 905 Lm	86	90%	66
70° - lamp flux 875 Lm	86	85%	63









100% SUSPENSION *Ross Lovegrove 2010*

100% SUSPENSION

Patent Pending N° **MI2010A000634**

100% SUSPENSION è costituita da un'unica leggerissima lamiera di alluminio spessa solo 5 millimetri, che garantisce però un perfetto illuminamento grazie a led di potenza montati su di un circuito stampato flessibile (Patent Pending MI2010A000634) per ottenere un'emissione indiretta e una diretta dark in linea con le normative degli uffici.
È un sistema composto da un modulo che può vivere singolarmente o inserito in configurazioni multiple con elementi di connessione a 180°, 120°, 90°, così da poter configurare con la massima libertà la luce nello spazio.
Grazie alla tecnologia brevettata anche nei sistemi composti da più moduli l'emissione di ogni singolo elemento resta comunque gestibile indipendentemente dagli altri così da restituire importanza al singolo, dare valore e qualità allo spazio personale di lavoro, creare consapevolezza e responsabilità nella gestione.

100% SUSPENSION It is composed of a module that can function alone or be inserted in other configurations. It is a basic strip of light, a very light aluminium sheet only 5 mm thick, that guarantees perfect illumination due to Power LEDs mounted on a flexible printed circuit (Patent Pending MI2010A000634) that regulates light emission with a touch dimming control.
The system fits connecting elements among the various modules at 180°, 120°, 90° angles so as to give the opportunity to arrange light and space freely. The modules can be used and appreciated as a system or separately contributing to workspace enhancement and personal awareness and responsibility.

100% SUSPENSION est composé d'une tôle d'aluminium très légère de 5 millimètres d'épaisseur garantissant un éclairement parfait grâce à des leds montées sur un circuit imprimé flexible (Patent Pending MI2010A000634), à émission indirecte et directe dark-light conformes aux réglementations des bureaux.
Ce système est composé d'un module, individuel ou en configurations multiples, accompagné d'éléments de connexion à 180°, 120°, 90°, pour configurer librement la lumière dans l'espace.
Bien que la technologie ait été brevetée pour des systèmes composés de plusieurs modules, l'émission d'un seul élément peut être gérée de manière indépendante afin de mettre en évidence l'élément individuel, de donner de la valeur et de la qualité à l'espace personnel de travail, de créer une conscience et une responsabilité de gestion.

100% SUSPENSION besteht aus einem einzigen, extrem leichten Aluminiumblech, das nur 5 Millimeter stark ist, jedoch perfekte Beleuchtung garantiert dank der Hochleistungs-LED, die auf einer flexiblen Leiterplatte montiert sind (Patent Pending MI2010A00063 4), sodass eine indirekte und direkte Dark-Emission entsprechend den Vorschriften für Büroumgebungen ermöglicht wird.
Das System besteht aus einem Modul, das entweder alleinstehend betrieben oder über Verbindungselemente im 180-, 120- oder 90-Gradwinkel in eine Mehrfachkombination eingegliedert werden kann, sodass das Licht im Raum in völliger Freiheit konfiguriert werden kann.
Dank der patentierten Technologie bleibt auch bei Systemen, die aus mehreren Bausteinen gebildet werden, die Emission jedes einzelnen Elements unabhängig von den anderen steuerbar, sodass dem Einzelelement weiter seine Bedeutung zukommt, der persönlichen Arbeitumgebung Wert und Qualität verliehen wird und Bewusstheit und Verantwortung bei der Gestaltung geschaffen wird.

100% SUSPENSION OPTICAL FEATURE

DOUBLE SIDE EMISSION

INDIRECT EMISSION

DIRECT EMISSION

NO BACKGROUND DARKNESS

6 MM THICKNESS

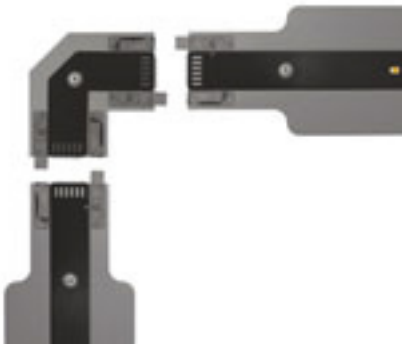
NO LED DIRECT VISION

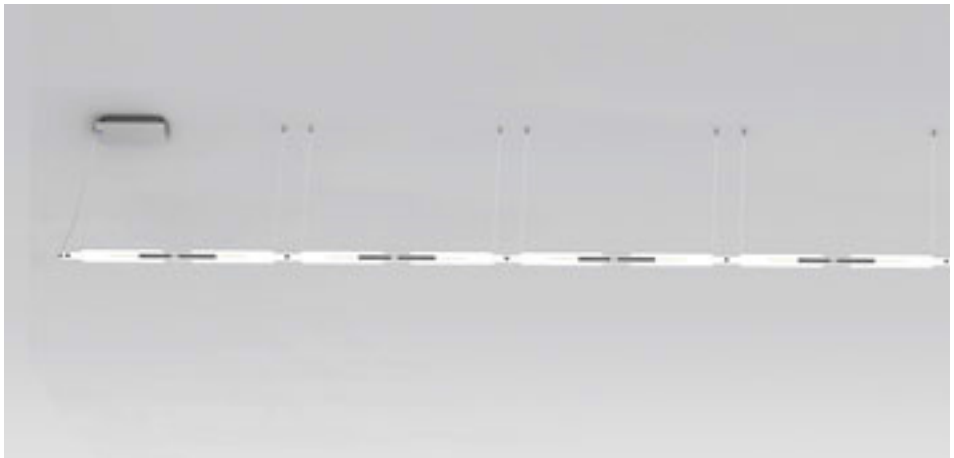
100% SUSPENSION ELECTRO – MECHANICAL CONNECTIONS

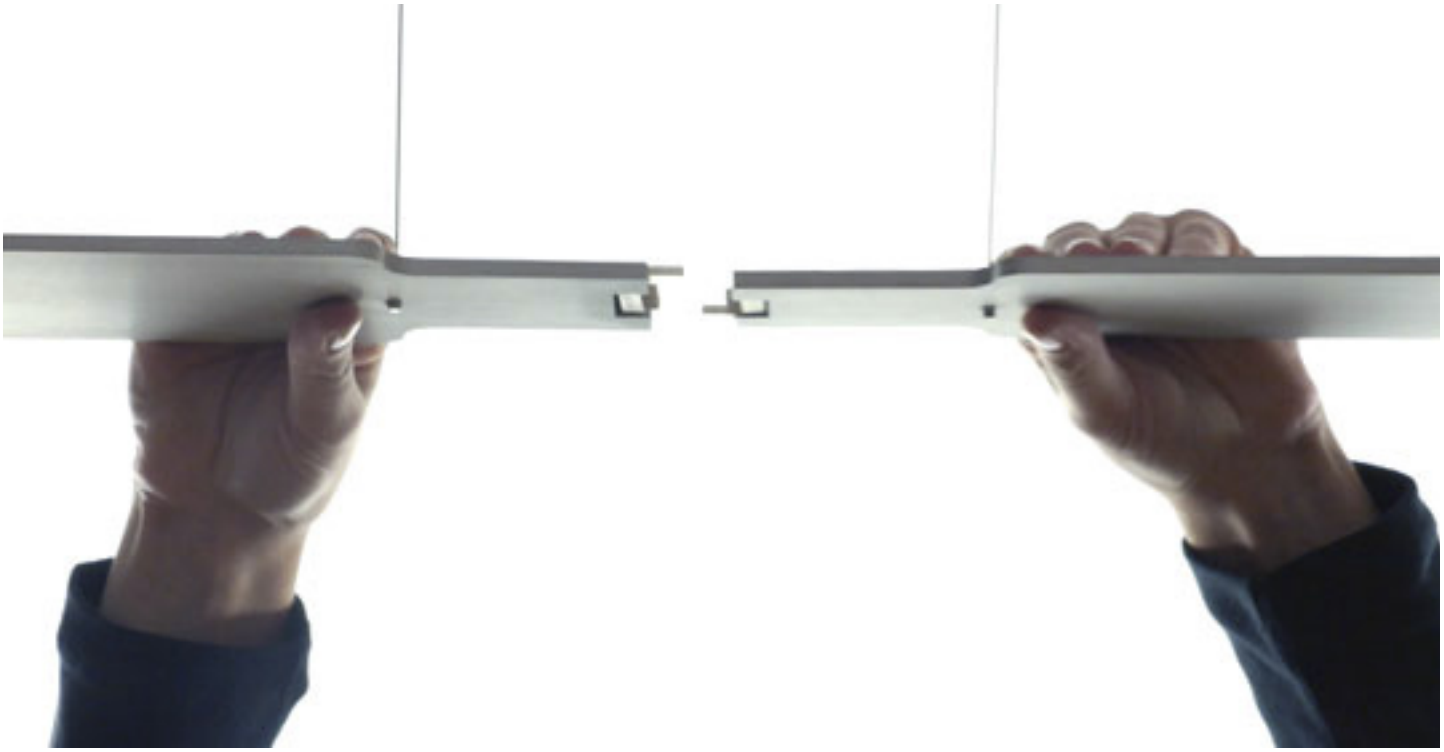
LINEAR JUNCTION 0°

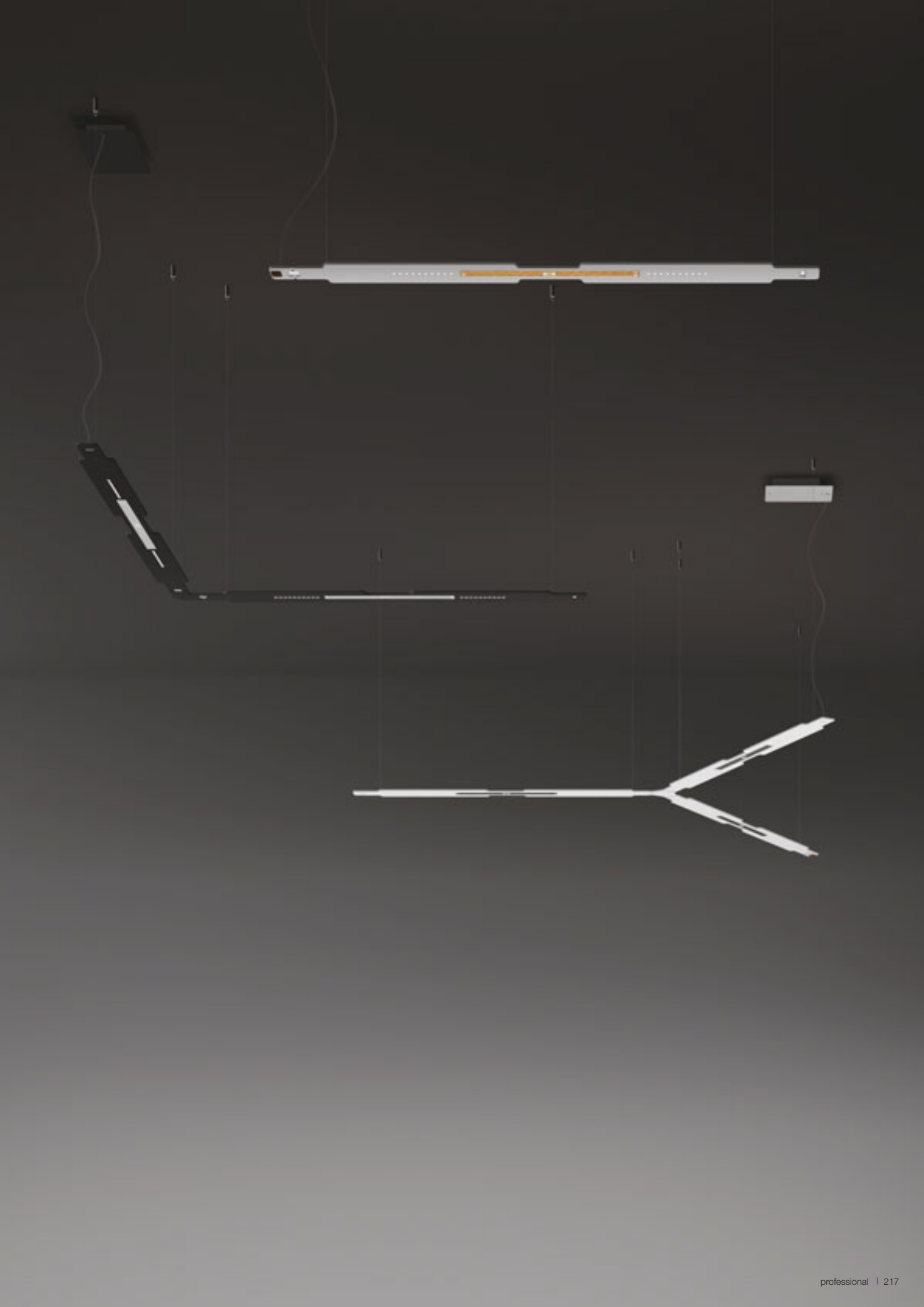
JUNCTION 120°

JUNCTION 90°





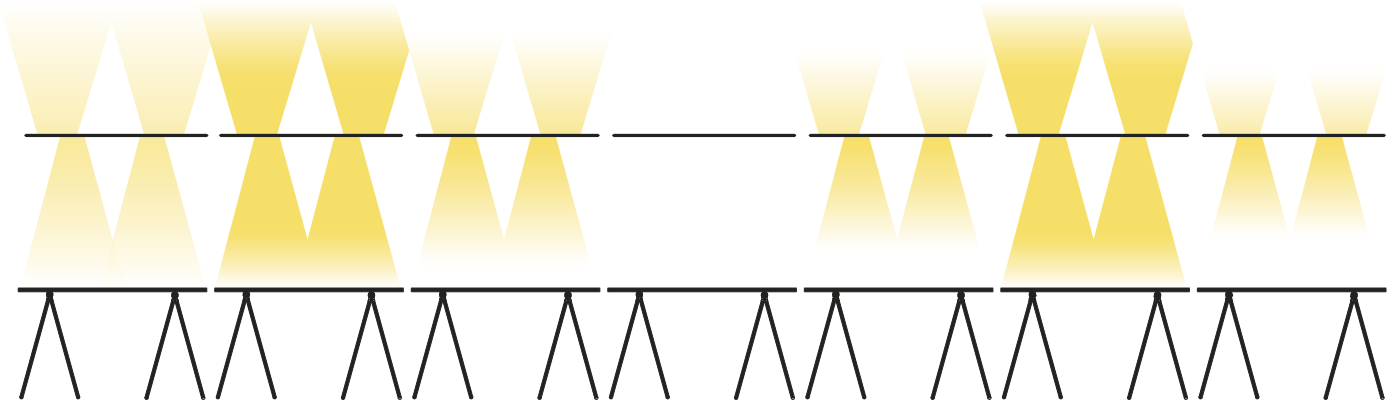




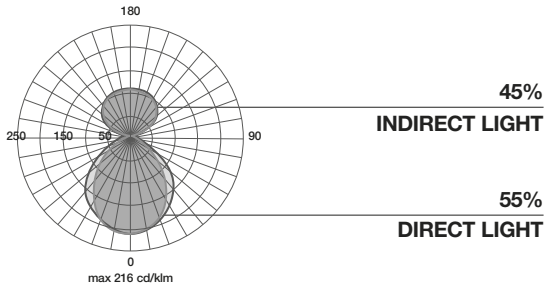
100% SUSPENSION PERSONAL LIGHT MANAGMENT

TOUCH DIMMER

INDIPENDENT DIMMING ON EACH MODULE - MAX 7



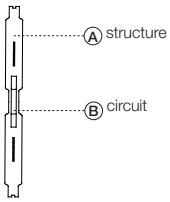
	LAMPING	lamp flux Lm	η lamping Lm/W	R %	η lamp Lm/W
direct light	21,8 W : 20 x 1,09 W LED	2304	98	72	70
indirect light	10,9 W : 10 x 1,09 W LED				
total	32,7 W : 30 x 1,09 W LED				



CCT	CRI
neutral white 4000 K	Ra 80

100% SUSPENSION MODULES

Patent Pending N° **MI2010A000634**

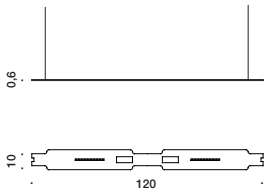


COLOUR

Ⓐ ◇ / ◆ / ◇
Ⓑ ◇ / ◆ / ◇

SYMBOLS IP20 F 1,6 kg
energy label 1
LEED® certification's credits

MATERIALS Alluminio anodizzato o verniciato - circuito stampato, anodized or painted aluminium - printed circuit board, aluminium anodisé ou peint- circuit imprimé, Eloxiertes oder lackiertes Aluminium - Leiterplatte

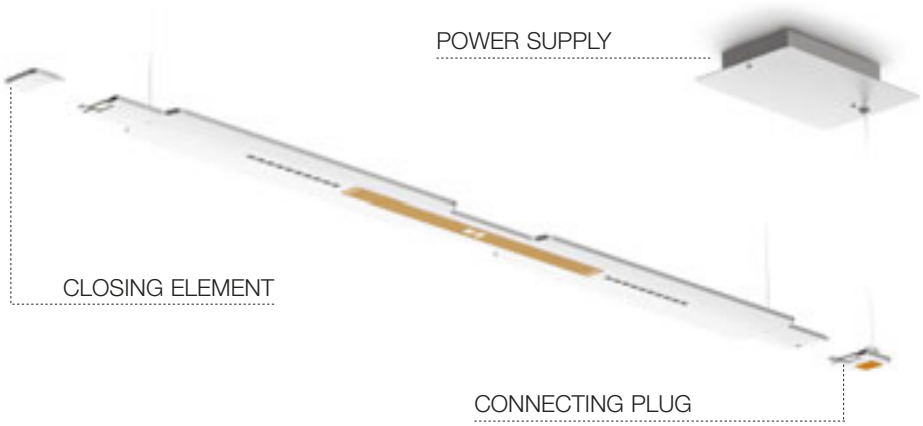


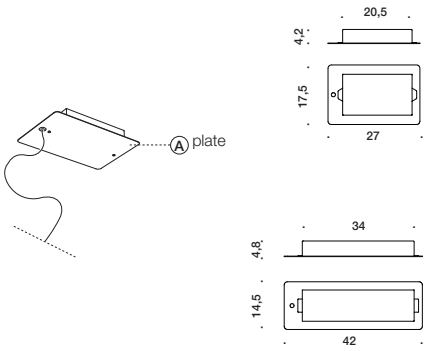
measures in cm

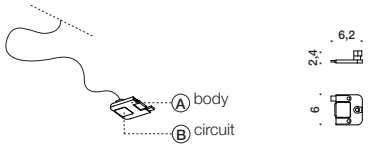
VERSION	COLOUR	CODE
100% module LED flux 3210 Lm Lamp flux 3017 Lm* PLED 36 W	Ⓐ◇ + Ⓑ◇	**DRL1903A00**
	Ⓐ◇ + Ⓑ◆	**DRL1903A00N**
	Ⓐ◇ + Ⓑ◇	**DRL1903A00B**
	Ⓐ◆ + Ⓑ◇	**DRL1903A09**
	Ⓐ◆ + Ⓑ◆	**DRL1903A09N**
	Ⓐ◆ + Ⓑ◇	**DRL1903A09B**
	Ⓐ◇* + Ⓑ◇	**DRL1903A10**
	Ⓐ◇* + Ⓑ◆	**DRL1903A10N**
	Ⓐ◇* + Ⓑ◇	**DRL1903A10B**

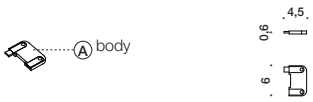
NOTE: the codes includes only the light module, other components must be ordered separately.

100% SUSPENSION







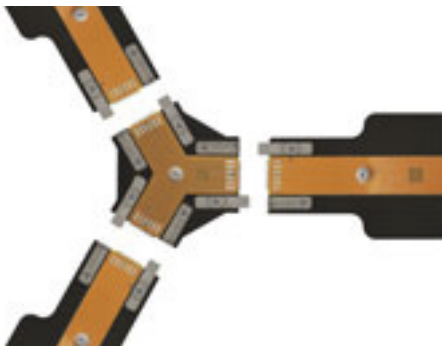


VERSION	COLOUR	CODE
power supply kit 50W 1 module	Ⓐ◇	**DRL1903AKTA00**
	Ⓐ◆	**DRL1903AKTA09**
	Ⓐ◇	**DRL1903AKTA10**
power supply kit 150W 2 / 4 modules	Ⓐ◇	**DRL1903AKTA100**
	Ⓐ◆	**DRL1903AKTA109**
	Ⓐ◇	**DRL1903AKTA110**
power supply kit 320W 5 / 7 modules	Ⓐ◇	**DRL1903AKTA200**
	Ⓐ◆	**DRL1903AKTA209**
	Ⓐ◇	**DRL1903AKTA210**
connecting plug	Ⓐ◇ + Ⓑ◆	**DRL1903ATPA00**
	Ⓐ◇ + Ⓑ◆	**DRL1903ATPA00N**
	Ⓐ◇ + Ⓑ◇	**DRL1903ATPA00B**
	Ⓐ◆ + Ⓑ◆	**DRL1903ATPA09**
	Ⓐ◆ + Ⓑ◆	**DRL1903ATPA09N**
	Ⓐ◆ + Ⓑ◇	**DRL1903ATPA09B**
	Ⓐ◇ + Ⓑ◆	**DRL1903ATPA10**
	Ⓐ◇ + Ⓑ◆	**DRL1903ATPA10N**
	Ⓐ◇ + Ⓑ◇	**DRL1903ATPA10B**
closing element	Ⓐ◇	**DRL1903ATPC00**
	Ⓐ◆	**DRL1903ATPC09**
	Ⓐ◇	**DRL1903ATPC10**

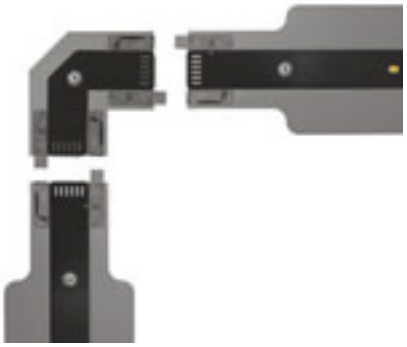
100% SUSPENSION CONNECTION

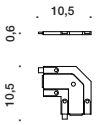
linear junction 0°

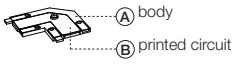
junction 120°

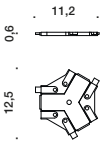


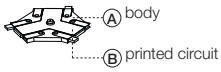
junction 90°







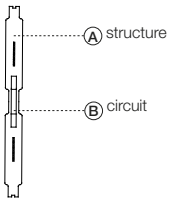




VERSION	COLOUR	CODE
90° connecting element	Ⓐ◇ + Ⓑ◆	DRL1903AKTC100
	Ⓐ◇ + Ⓑ◆	DRL1903AKTC100N
	Ⓐ◇ + Ⓑ◇	DRL1903AKTC100B
	Ⓐ◆ + Ⓑ◆	DRL1903AKTC109
	Ⓐ◆ + Ⓑ◆	DRL1903AKTC109N
	Ⓐ◆ + Ⓑ◇	DRL1903AKTC109B
	Ⓐ◇ + Ⓑ◆	DRL1903AKTC110
	Ⓐ◇ + Ⓑ◆	DRL1903AKTC110N
	Ⓐ◇ + Ⓑ◇	DRL1903AKTC110B
120° connecting element	Ⓐ◇ + Ⓑ◆	DRL1903AKTC200
	Ⓐ◇ + Ⓑ◆	DRL1903AKTC200N
	Ⓐ◇ + Ⓑ◇	DRL1903AKTC200B
	Ⓐ◆ + Ⓑ◆	DRL1903AKTC209
	Ⓐ◆ + Ⓑ◆	DRL1903AKTC209N
	Ⓐ◆ + Ⓑ◇	DRL1903AKTC209B
	Ⓐ◇ + Ⓑ◆	DRL1903AKTC210
	Ⓐ◇ + Ⓑ◆	DRL1903AKTC210N
	Ⓐ◇ + Ⓑ◇	DRL1903AKTC210B

100% SUSPENSION BASIC

Patent Pending N° **MI2010A000634**

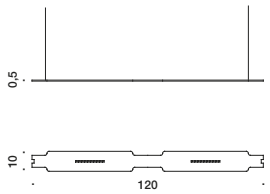


COLOUR

Ⓐ ◇ / ◆ / ◇
Ⓑ ◆ / ◆ / ◇

SYMBOLS IP20 F ⏚ ◆◆ T 1,6 kg
energy label 1
LEED® certification's credits

MATERIALS Alluminio anodizzato o verniciato - circuito stampato, anodized or painted aluminium - printed circuit board, aluminium anodisé ou peint- circuit imprimé, Eloxiertes oder lackiertes Aluminium - Leiterplatte

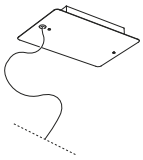


measures in cm

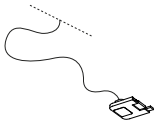
VERSION	COLOUR	CODE
100% module LED flux 3210 Lm Lamp flux 3210 Lm* PLED 36 W	Ⓐ◇ + Ⓑ◆	**DRL1903B00**
	Ⓐ◇ + Ⓑ◆	**DRL1903B00N**
	Ⓐ◇ + Ⓑ◇	**DRL1903B00B**
	Ⓐ◆ + Ⓑ◆	**DRL1903B09**
	Ⓐ◆ + Ⓑ◆	**DRL1903B09N**
	Ⓐ◆ + Ⓑ◇	**DRL1903B09B**
	Ⓐ◇* + Ⓑ◆	**DRL1903B10**
	Ⓐ◇* + Ⓑ◆	**DRL1903B10N**
	Ⓐ◇* + Ⓑ◇	**DRL1903B10B**

NOTE: the codes includes only the light module, other components must be ordered separately.

power supply - see page 200



connecting plug - see page 200



closing element - see page 200

connecting element - see page 202

90°

120°

100% Suspension - see page 198

100% Suspension Basic connected with 100% Suspension

R. RAY *Ross lovegrove 2009*

SYMBOLS IP20 13 kg

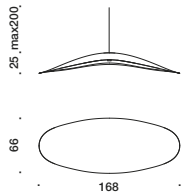
LED life 80.000 hours

energy label 1

COLOUR

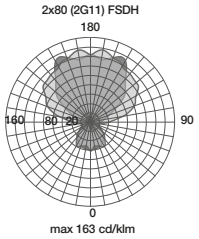
opaline

MATERIALS Policarbonato - alluminio anodizzato, polycarbonate - anodized aluminium, polycarbonate - aluminium anodisé, polycarbonate -eloxiertes Aluminiumeloxiertes Aluminium



measures in cm

	COLOUR	CODE
dimmable 2x80 W (2G11) FSDH	OPALINE	**DRL1900B20**



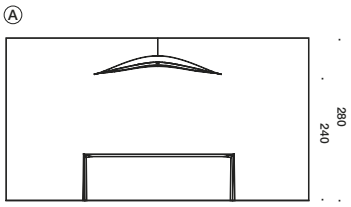
	η sorgente Lm/W	R	η lamp Lm/W
2 x 80 W (2G11) FSDH	81	85%	69

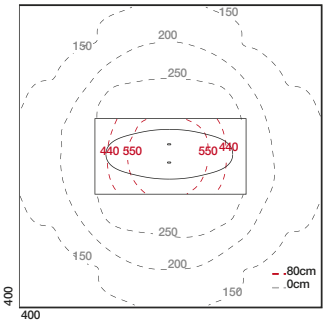
R. RAY è un elemento leggero, composto da due scocche opaline che racchiudono due sorgenti fluorescenti controllando l'abbagliamento con un'emissione comfort.
La sua forma e l'angolazione delle sorgenti al suo interno aiutano la luce indiretta a distribuirsi aprendosi ad illuminare un'ampia area per un'ottima illuminazione indiretta. L'illuminazione diretta è invece controllata dalle caratteristiche intrinseche del materiale opalino e dalla forma "ad onde" della scocca inferiore.
R.RAY può essere posizionata secondo diverse inclinazioni per creare sequenze meno rigide di apparecchi, gestire la distribuzione del flusso o semplicemente per dare un tocco più personale all'ambiente.

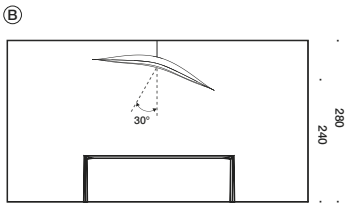
R.RAY est un élément léger, composé de deux coques opalines contenant deux sources fluorescentes, qui contrôle l'éblouissement et offre une émission agréable.
Sa forme et l'angulation des sources à l'intérieur facilitent la distribution de la lumière indirecte, ce qui permet d'éclairer une large zone et assure une très bonne illumination indirecte.
En revanche, l'éclairage direct est contrôlé par les caractéristiques intrinsèques du matériau opalin et la forme "en vagues" de la coque inférieure.
R.RAY peut être positionné dans différentes inclinaisons pour créer des suites d'appareils moins rigides, gérer la distribution du flux ou simplement donner une touche plus personnelle au milieu.

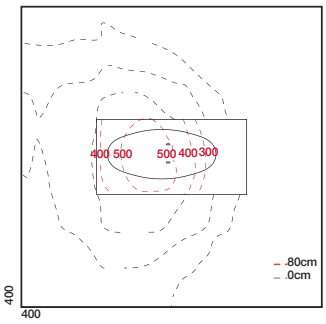
R. RAY is a light element, consisting of two opal shells that enclose two fluorescent sources with controlled glare and comfort emission.
Its shape and angle of the sources inside help to distribute the indirect light opening to illuminate a large area for excellent indirect lighting. Direct illumination is instead controlled by the intrinsic characteristics of the opal material and the «wave» shape of the lower body.
R.RAY can be positioned in different angles and tilt to create different sequences in the spaces, manage the flow distribution or simply to give a more personal touch to the environment.

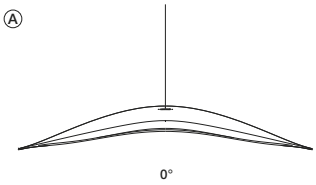
R.RAY ist ein leichtes, aus zwei Opalglaskörpern bestehendes Element, das zwei Fluoreszenzleuchtmittel enthält und wegen einer komfortablen Lichtemission keine Blendung erzeugt.
Seine Form und der Winkel der enthaltenen Lichtquellen unterstützen die Verbreitung des indirekten Lichts, wodurch ein größerer Bereich optimal beleuchtet werden kann. Die direkte Beleuchtung wird hingegen durch die Merkmale des Opalglases und durch die Wellenform des unteren Körpers geregelt.
R.RAY kann je nach den unterschiedlichen Neigungen positioniert werden, um weniger starre Geräteanordnungen zu erstellen, die Verbreitung des Lichtstroms zu steuern oder einfach um der Umgebung einen persönliche Note zu verleihen.

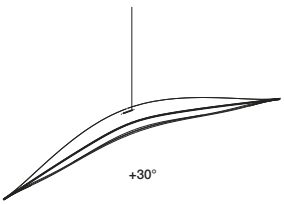


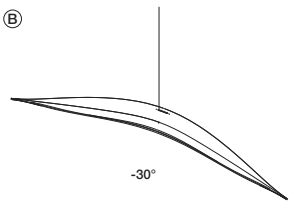












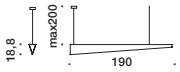
SPINA *Gabi Peretto 2009*

SYMBOLS IP20 12,1 kg
energy label 11

COLOUR

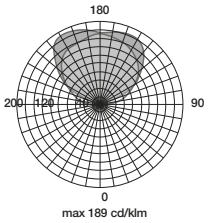
◇

MATERIALS Lamiera di metallo verniciata, painted metal sheet, tole laquée, lackiertes Blech



measures in cm

	COLOUR	CODE
sospensione singola	WHITE	**DGP4701A10**



	η lamping Lm/W	R %	η lamp Lm/W
160W (2x80W (2G11) FSDH)	81	60%	49

SPINA adotta un codice linguistico elementare con cui può entrare con discrezione a far parte dello spazio quotidiano in luoghi pubblici o privati ma mantiene un'espressività evidente e, con il suo aspetto scultoreo, può diventare un segno forte che caratterizza anche e soprattutto attraverso la luce la definizione dello spazio.
Il profilo della scocca direziona un'ampia illuminazione indiretta, la possibilità di combinare più elementi tra loro rende possibile modellare il ritmo dell'atmosfera luminosa degli ambienti adattandosi a tutte le esigenze grazie alla possibilità di interpretare le sue performance a favore di una luce più emozionale ma comunque funzionale.

SPINA adopte un code linguistique élémentaire lui permettant d'entrer discrètement dans l'espace quotidien de lieux publics ou privés; il maintient toutefois une expressivité évidente et il caractérise fortement la définition de l'espace, grâce à son aspect sculptural et à la lumière émise.
Le profil de la coque donne un large éclairage indirect; l'association de plusieurs éléments et l'interprétation des performances en faveur d'une lumière plus émotionnelle mais fonctionnelle permettent de modeler l'atmosphère lumineuse de la pièce pour répondre à toutes les exigences.

SPINA superbly represents the values that Danese pursues in the direction of a complete ecological approach, perceptively and also respectfully as far as the natural environment is concerned. It is characterized by simplicity and discretion. It can become part of our everyday life, both in public and private places, whilst maintaining its self-expression. Due to its sculptural appearance, it can turn out to be a strong sign that portrays the definition of the space, mainly through the light.
The choice of combining various elements make it possible to mould the rhythm of the luminous atmosphere of the environment. It suits all needs thanks to the interesting variety of interpretations of its performance in favour of a more emotional and functional light.

SPINA verwendet einen elementaren Sprachcode, mit dessen Hilfe sich die Leuchte diskret in das tägliche Leben öffentlicher oder privater Räumlichkeiten eingliedert, wobei jedoch eine klare Ausdrucksfähigkeit beibehalten wird. Mit ihrem skulpturhaften Äußeren kann die Leuchte starke Zeichen setzen und vor allem durch das Licht die Definition des Raumes bestimmen.
Das Profil der Schale richtet eine breite indirekte Beleuchtung in den Raum, und die Möglichkeit, mehrere Elemente untereinander zu kombinieren, gestattet es, den Rhythmus der Lichtatmosphäre der Räume zu modellieren und diese an alle Erfordernisse anzupassen dank der Möglichkeit, ihre Performance zu Gunsten eines weicheren, jedoch immer noch funktionellen Lichts zu interpretieren.

MIYAKO *Studio 63 2009*

Miyako è un sistema completo e diversificato per tipologie, performance di luce e varietà di colori disponibili, capace di creare scenografiche composizioni o di inserirsi con discrezione in qualsiasi ambiente garantendo ottime prestazioni luminose. La classica tipologia a luce concentrata, solitamente realizzata con sorgenti alogene, è reinterpretata attraverso la scelta di sorgenti innovative che minimizzano i consumi e ricercano una qualità della luce. Miyako può avere due corpi di lunghezza differente, 30 o 55 cm, ognuno dei quali si declina in sospensione o plafone con emissione solo diretta e parete con doppia emissione.

Miyako is a complete system with different solutions according to light performance and type, and to the various colours available: it can create spectacular effects or integrate gently in any environment, guaranteeing excellent light performance.
The traditional spot light solution, generally obtained by means of halogen light sources, is reinterpreted by choosing innovative light sources that reduce consumption to the minimum guaranteeing light quality.
Myako is available in two different body sizes (30 or 55 cm of length), each one in the pendant or ceiling mounted version, and featuring either direct or double emission.

Miyako est un système complet et diversifié par typologies, performances de lumière et variétés de couleurs disponibles, en mesure de créer des compositions scénographiques ou de s'insérer avec discrétion dans n'importe quel milieu en garantissant de très bonnes performances de lumière.
La typologie classique à lumière concentrée, généralement réalisée avec des sources halogènes, est réinterprétée à travers le choix de sources innovatrices qui réduisent au minimum les consommations et qui recherchent une qualité de la lumière. Miyako peut avoir deux corps de longueur différente, 30 ou 55 cm, se déclinant chacun en suspension ou plafond avec émission directe seulement et paroi à double émission.

Miyako ist ein vollständiges System, dessen Ausführung sich durch Aufbau, Lichtleistung und verfügbare Farbenvielfalt unterscheidet. Es schafft bühnenhafte Kompositionen oder fügt sich diskret in jede Umgebung ein, wobei es ausgezeichnete beleuchtungstechnische Leistungen gewährleistet.
Die klassische Version mit konzentriertem Licht, die normalerweise mit Halogenlichtquellen realisiert wird, wurde durch die Wahl von innovativen Lichtquellen mit sehr geringem Verbrauch und guter Lichtqualität neu interpretiert.
Miyako kann zwei verschieden lange Körper haben: 30 oder 55 cm. Jeder dieser Körper ist als Hänge- oder Deckenausführung mit direkter Lichtabgabe und als Wandausführung mit doppelter Emission erhältlich.

MIYAKO 55 / MIYAKO 30 SUSPENSION

SYMBOLS IP20 1,1 kg

LED life 80.000 hours

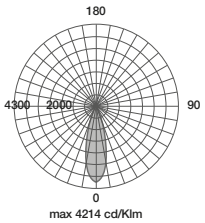
energy label 1

COLOUR

MATERIALS Alluminio spazzolato, alluminio verniciato, metacrilato - brushed aluminum, painted aluminium, methacrylate - aluminium brossé, aluminium peint, methacrilate - gebürstetem Aluminium, lackiertes Aluminium, Metacrylat

VERSION	COLOUR	CODE
MIYAKO 55 suspension LED flux 241 Lm Lamp flux 180 Lm PLED 4,3 W - PTOT 5 W	ALUMINIUM	**DJ1001A00**
	BLACK	**DJ1001A09**
	WHITE	**DJ1001A10**
	ORANGE	**DJ1001A03**
	BLUE	**DJ1001A14**
	VIOLET	**DJ1001A13**
	RED	**DJ1001A16**
	YELLOW	**DJ1001A54**
MIYAKO 30 suspension LED flux 241 Lm Lamp flux 180 Lm PLED 4,3 W - PTOT 5 W	ALUMINIUM	**DJ1001C00**
	BLACK	**DJ1001C09**
	WHITE	**DJ1001C10**
	ORANGE	**DJ1001C03**
	BLUE	**DJ1001C14**
	VIOLET	**DJ1001C13**
	RED	**DJ1001C16**
	YELLOW	**DJ1001C54**

	η lamping Lm/W	R %	η lamp Lm/W
3 LED - PLED 4,3 W - Lamp flux 180 Lm - 3200 K - Ra 80	56	75%	36



MIYAKO 55 / MIYAKO 30 CEILING

SYMBOLS IP20 1,0 kg

LED life 80.000 hours

energy label 1

COLOUR

MATERIALS Alluminio spazzolato, alluminio verniciato, metacrilato - brushed aluminum, painted aluminium, methacrylate - aluminium brossé, aluminium peint, methacrilate - gebürstetem Aluminium, lackiertes Aluminium, Metacrylat

55

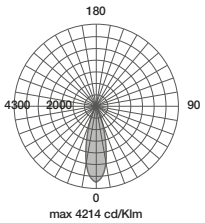
5

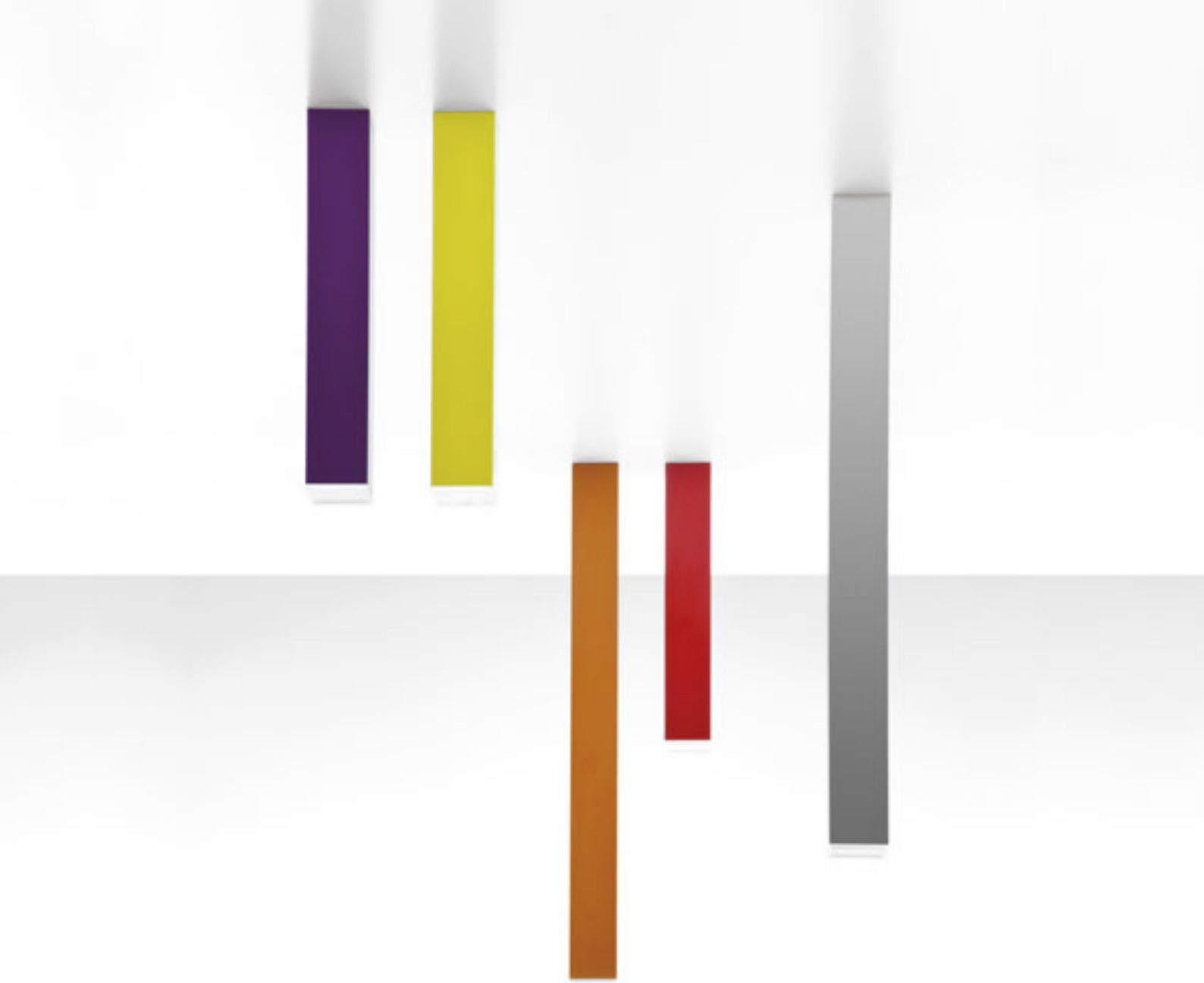
30

5

VERSION	COLOUR	CODE
MIYAKO 55 ceiling LED flux 241 Lm Lamp flux 180 Lm P_{LED} 4,3 W - P_{TOT} 5 W	ALUMINIUM	**DJ1001H00**
	BLACK	**DJ1001H09**
	WHITE	**DJ1001H10**
	ORANGE	**DJ1001H03**
	BLUE	**DJ1001H14**
	VIOLET	**DJ1001H13**
	RED	**DJ1001H16**
	YELLOW	**DJ1001H54**
MIYAKO 30 ceiling LED flux 241 Lm Lamp flux 180 Lm P_{LED} 4,3 W - P_{TOT} 5 W	ALUMINIUM	**DJ1001L00**
	BLACK	**DJ1001L09**
	WHITE	**DJ1001L10**
	ORANGE	**DJ1001L03**
	BLUE	**DJ1001L14**
	VIOLET	**DJ1001L13**
	RED	**DJ1001L16**
	YELLOW	**DJ1001L54**

	η lamping Lm/W	R %	η lamp Lm/W
3 LED - P_{LED} 4,3 W - Lamp flux 180 Lm - 3200 K - Ra 80	56	75%	36





MIYAKO 55 / MIYAKO 30 WALL

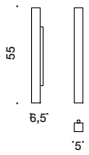
SYMBOLS IP20 1,1 kg

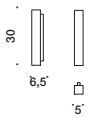
LED life 80.000 hours

energy label 1

COLOUR

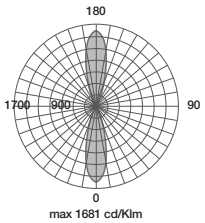
MATERIALS Alluminio spazzolato, alluminio verniciato, metacrilato - brushed aluminum, painted aluminium, methacrylate - aluminium brossé, aluminium peint, methacrilate - gebürstetem Aluminium, lackiertes Aluminium, Metacrylat





VERSION	COLOUR	CODE
MIYAKO 55 wall LED flux 349 Lm Lamp flux 243 Lm PLED 6 W - PTOT 7 W	ALUMINIUM	**DJ1001E00**
	BLACK	**DJ1001E09**
	WHITE	**DJ1001E10**
	ORANGE	**DJ1001E03**
	BLUE	**DJ1001E14**
	VIOLET	**DJ1001E13**
	RED	**DJ1001E16**
	YELLOW	**DJ1001E54**
MIYAKO 30 wall LED flux 349 Lm Lamp flux 243 Lm PLED 6 W - PTOT 7 W	ALUMINIUM	**DJ1001G00**
	BLACK	**DJ1001G09**
	WHITE	**DJ1001G10**
	ORANGE	**DJ1001G03**
	BLUE	**DJ1001G14**
	VIOLET	**DJ1001G13**
	RED	**DJ1001G16**
	YELLOW	**DJ1001G54**

	η lamping Lm/W	R %	η lamp Lm/W
6 LED - PLED 6 W - Lamp flux 243 Lm - 3200 K - Ra 80	58	70%	35



MIYAKO CHANDELIER

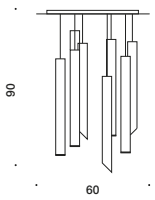
SYMBOLS IP20 1,1 kg

LED life 80.000 hours

energy label 1

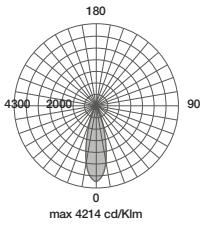
COLOUR

MATERIALS Alluminio spazzolato, alluminio verniciato, metacrilato - brushed aluminum, painted aluminium, methacrylate - aluminium brossé, aluminium peint, methacrilate - gebürstetem Aluminium, lackiertes Aluminium, Metacrylat



VERSION	COLOUR	CODE
MIYAKO chandelier		
LED flux 964 Lm Lamp flux 720 Lm P_{LED} 17,2 W - P_{TOT} 20 W	4 light modules + 4 mirrors modules	**DJ1001OMX**
LED flux 1446 Lm Lamp flux 1080 Lm P_{LED} 25,8 W - P_{TOT} 30 W	6 light modules + 2 mirrors modules	**DJ1001PMX**

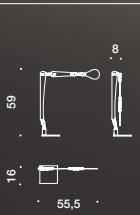
	η lamping Lm/W	R %	η lamp Lm/W
each light modules 3 LED - P_{LED} 4,3 W - Lamp flux 180 Lm - 3200 K - Ra 80	56	75%	36

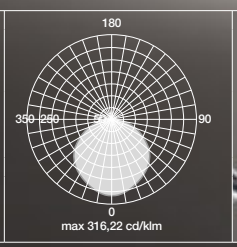


DANESE **ICONIC**

INA *Carlotta de Bevilacqua 2007*

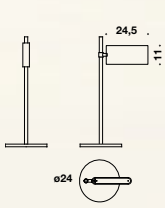
material diffuser	material structure	colour	symbols	emission
	15 + 19	◆ ◆	IP20	
PTOT: 11 W **PLED: 7,5 W** **85x0,1 W LED** **CCT 3000K - Ra 80** **energy label 1** on/off dimming		η LED Lm/W **67** LED Lm **505**	R **100%**	η lamp Lm/W **46** lamp Lm **505**

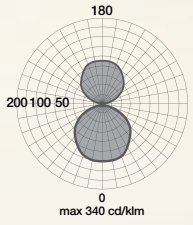




TWO FLAGS TABLE *Ernesto Gismondi, Neil Poulton 2011*

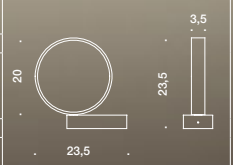
material diffuser	material structure	colour	symbols	emission
17	+ 18		IP20	
PTOT: 15 W **PLED: 11,5 W** **direct: 96LED** **indirect: 48LED** **CCT 3000K - Ra 80 +** **energy label 1** on / off dimming		η LED Lm/W **52,5** LED Lm **605**	R **85%**	η lamp Lm/W **38** lamp Lm **514**

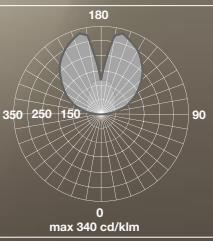


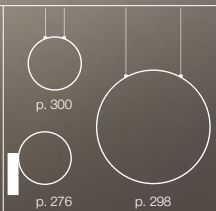


ECLITTICA 20 TABLE *Carlotta de Bevilacqua, 2013*

material diffuser	material structure	colour	symbols	emission
	13 / 4	◆ ◆ ◆	IP20	
		η LED Lm/W	R	η lamp Lm/W
PTOT: 14 W **PLED: 12 W** **1 x 12 W LED** **CCT 3000K - Ra 80 +** **energy label 1**		**113**		**91**
		LED Lm		lamp Lm
on / off dimming		**1355**	**94%**	**1274**

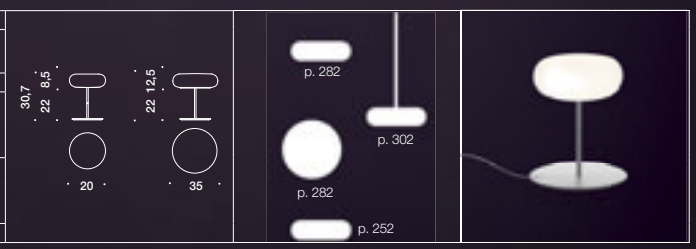


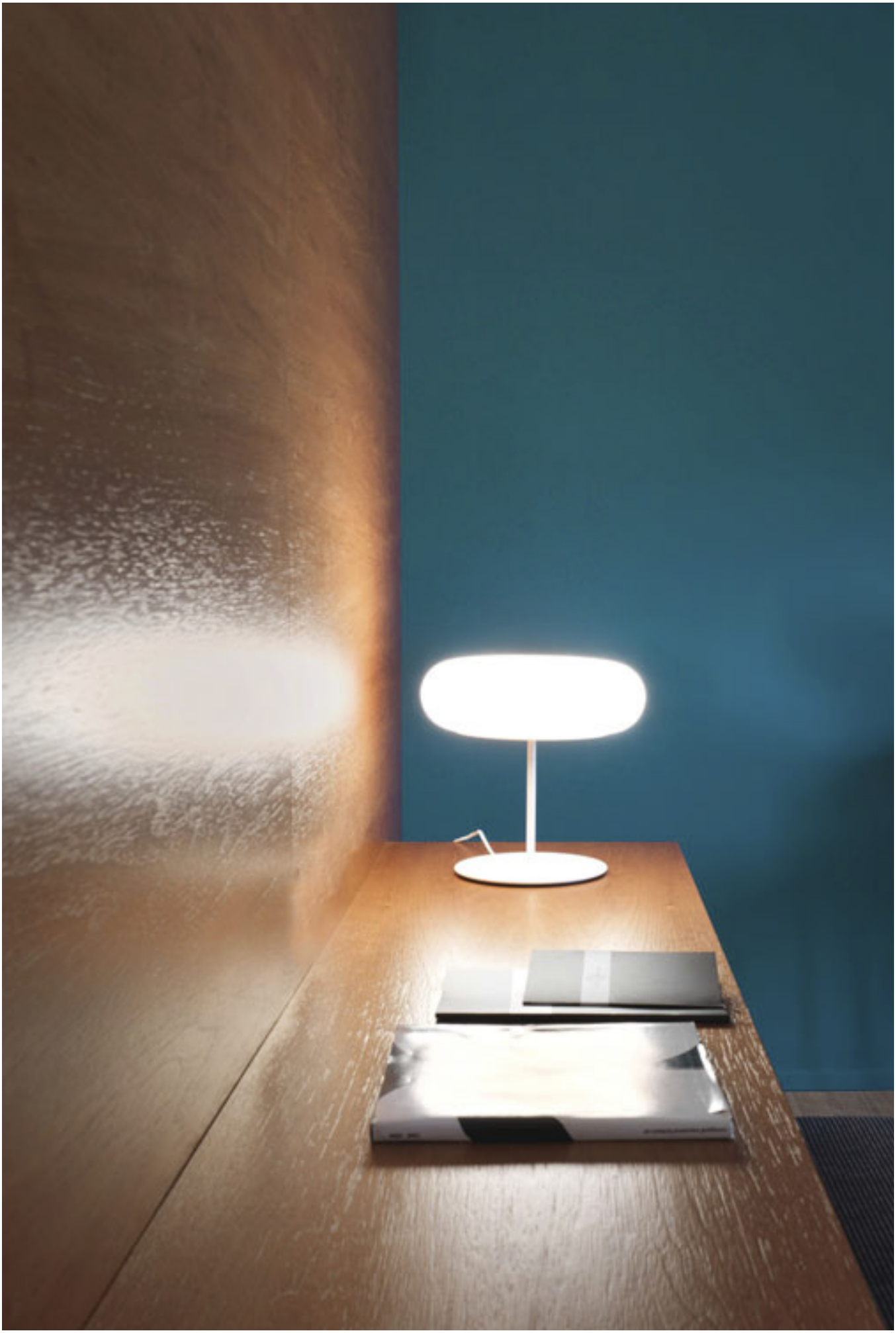




ITKA 20 /35 TABLE *Naoto Fukasawa 2008-2010*

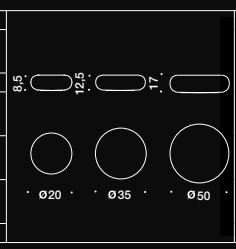
material diffuser	material structure	colour	symbols	emission
9	19	◆	IP20 F	•
		η lamping Lm/W	R	η lamp Lm/W
itka 35: 3x10W (E14) FBT		**58**	**60%**	**35**
itka 20: 1x9W (Gx53) FB		**31**	**60%**	**19**
energy label 11				

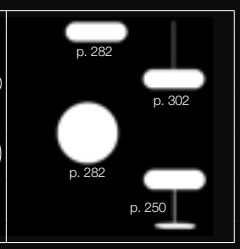




ITKA 20 /35 /50 TABLE FLOOR *Naoto Fukasawa 2008-2010*

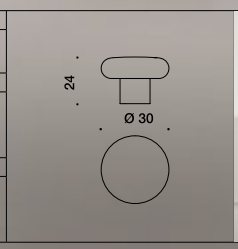
material diffuser	material structure	colour	symbols	emission
9	19	◆	*IP20* F	⊙
		η lamping Lm/W	R	η lamp Lm/W
itka 50: 3x23W (E27) FBT		**65**	**61%**	**40**
itka 35: 3x10W (E14) FBT		**58**	**60%**	**35**
itka 20: 9W (Gx53) FB		**31**	**60%**	**19**
energy label 11				

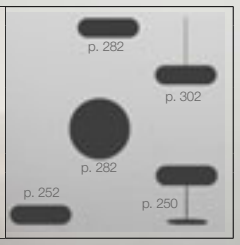




ITKA BASE *Naoto Fukasawa 2013*

material diffuser	material structure	colour	symbols	emission
9	30 / 29	◇ ◆ ◈	IP20 F III	⊙
PTOT: 16 W **PLED: 13 W** **1x13 W LED** **CCT 3000K - Ra 80** **energy label 1**		η LED Lm/W	R	η lamp Lm/W
		100	**72%**	**72**
		LED Lm		lamp Lm
		1300		**936**



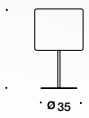


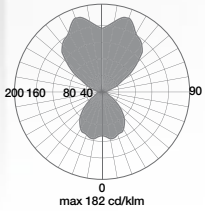
AMAMI *Naoto Fukasawa 2005*

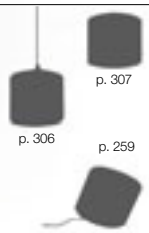
material diffuser	material structure	colour	symbols	emission
4	4	◆	IP20 F	
		η lamping Lm/W	R	η lamp Lm/W
20W (E27) FBG		**58**	**63%**	**37**
max 77W (E27) HSGSA				
energy label 4				

TET TABLE *Carlotta de Bevilacqua 2005*

material diffuser	material structure	colour	symbols	emission
13	14	◇ ◆ ◆	IP20 F	
		η lamping Lm/W	◇R	η lamp Lm/W
20W (E27) FBG		**58**	**70%**	**41**
max 77W (E27) HSGSA				
energy label 4				

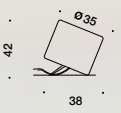


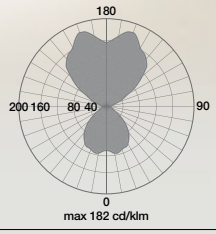


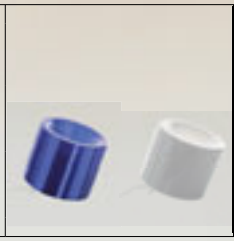


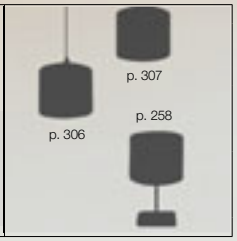
TET FLOOR *Carlotta de Bevilacqua 2005*

material diffuser	material structure	colour	symbols	emission
13	14	◇ ◆ ◆	IP20 F	
		η lamping Lm/W	R	η lamp Lm/W
20W (E27) FBG		**58**	**70%**	**41**
max 77W (E27) HSGSA				
energy label 4				







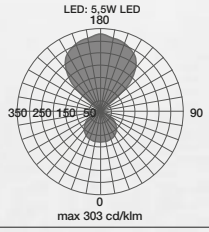


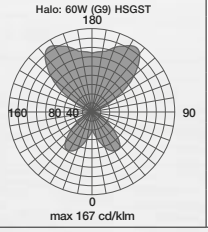
XIAO TET TABLE *Carlotta de Bevilacqua, Laura Pessoni 2010*

material diffuser	material structure	colour	symbols	emission
13 / 24	19		IP20	
PTOT: 7 W **PLED: 5,5 W** **direct: 4 LED** **indirect: 1 LED** **CCT 3000K - Ra ≥ 80** **energy label 1**		η LED Lm/W **97** LED Lm **535**	R **85%**	η lamp Lm/W **65** lamp Lm **455**
HALO * : 60W (G9) HSGST **energy label 9**		η lamping Lm/W **16**	R **85%**	η lamp Lm/W **14**

40,8

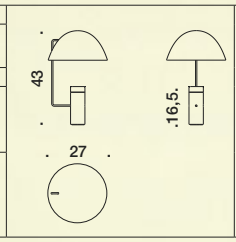
12,5°

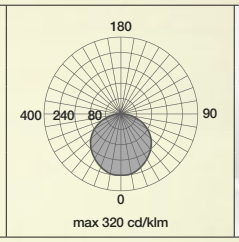




MIA *Paola Monaco di Arianello 2014*

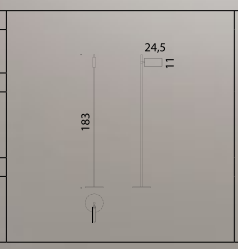
material diffuser	material structure	colour	symbols	emission
13	13 / 19	◇ ◆ ◆ ◆	IP20 F	⊙
		η lamping Lm/W	R	η lamp Lm/W
LED max 8W (Gu10) CCT 3000K (suggested) beam angle 36°		**58**	**90%**	**52**
energy label 1				

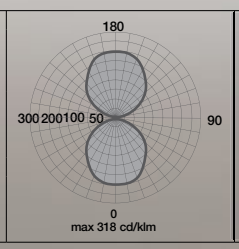


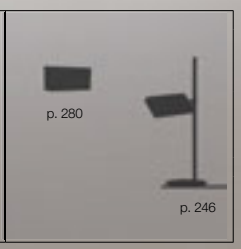


TWO FLAGS FLOOR *Ernesto Gismondi, Neil Poulton 2011*

material diffuser	material structure	colour	symbols	emission
17	18 / 13	◇ ◆ ◇	IP20 F	
		η LED Lm/W	R	η lamp Lm/W
PTOT: 18 W **PLED: 15 W** **direct: 96 LED** **indirect: 96 LED** **CCT 3000K - Ra ≤ 80** **energy label 1**		**52,5**		**38**
		LED Lm		lamp Lm
		806	**85%**	**685**

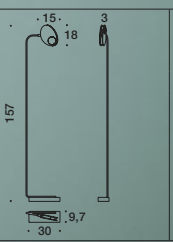


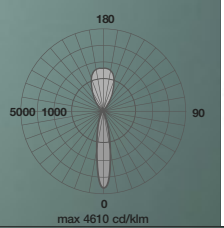


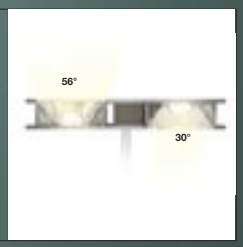


INDRA FLOOR *Laura Pessoni 2014*

material diffuser	material structure	colour	symbols	emission
13 + 4	19	◇ ◇	IP20 F	
P_{TOT}: 23 W **P_{LED}: 18 W** **direct: 1 LED** **indirect: 1 LED** **CCT 3000K - Ra 80** **energy label 1** dimmable		η LED Lm/W	R	η lamp Lm/W
		87		**75**
		LED Lm		lamp Lm
		1566	**86%**	**1346**





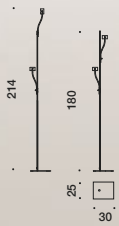


BRAZIL *Alberto Zecchini 2010*

material diffuser	material structure	colour	symbols	emission
	13 + 19		IP20 F	

2 x (E27) max 105 W

energy label 3



BINCAN LIGHT *Naoto Fukasawa 2005*

material diffuser	material structure	colour	symbols	emission
16	19	◆	IP20	
		η LED Lm/W	R	η lamp Lm/W
PTOT: 29 W **PLED: 25 W** **energy label 1**		**160**		**135**
		LED Lm		lamp Lm
		4000	**98%**	**3920**

175

21,5

230W (R7s) HDG

180

250 150 50

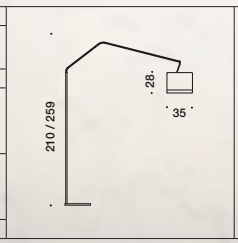
90

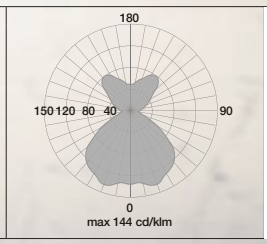
0

max 289,05 cd/klm

TET TAN BRACCIO *Carlotta de Bevilacqua 2006*

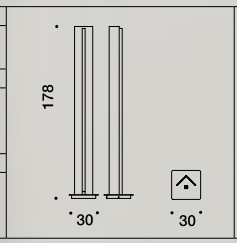
material diffuser	material structure	colour	symbols	emission
13 + 3 / 6	19		IP20	
		η lamping Lm/W	R	η lamp Lm/W
20W (E27) FBG		**58**	**74%**	**43**
max 77W (E27) HSGSA				
energy label 4				

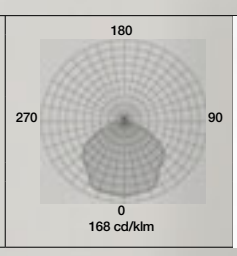


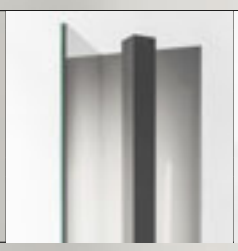


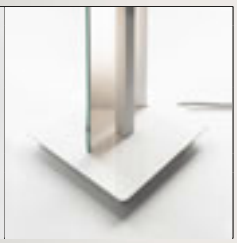
IANUS *Pierluigi Nicolin 2013*

material diffuser	material structure	colour	symbols	emission
	19 / 26	◇	IP20 □	
		η LED Lm/W	R	η lamp Lm/W
PTOT: 23 W **PLED: 20 W** **132 LED x 0,15 W** **CCT 3000K - Ra 80** **energy label 1**		**126**		**67**
		LED Lm		lamp Lm
		2520	**85%**	**1340**



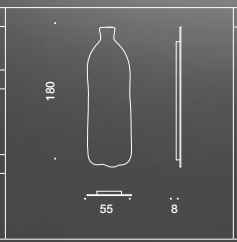


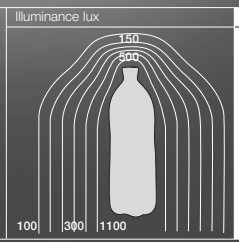




WATER MIRROR *Ross Lovegrove 2011*

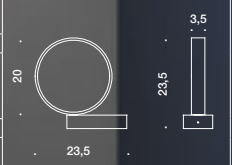
material diffuser	material structure	colour	symbols	emission
	19 / 26	◆	*IP20* ☐	☾
		η LED Lm/W	R	η lamp Lm/W
Ptot: 16,5 W **Pled: 14 W** **direct 4W LED** **indirect 10W LED** **CCT 3000K - Ra 85** **energy label 1**		**100**		**42**
		LED Lm		lamp Lm
		1400	**50%**	**700**

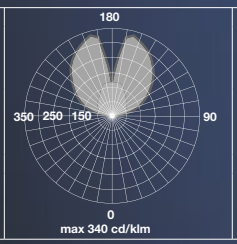


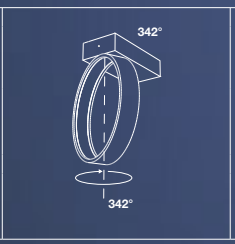


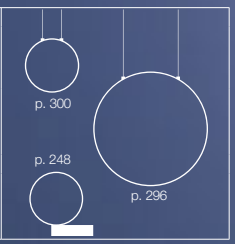
ECLITTICA 20 WALL/CEILING *Carlotta de Bevilacqua, 2013*

material diffuser	material structure	colour	symbols	emission
	13 / 4	◆ ◆ ◆	IP20	
		η LED Lm/W	R	η lamp Lm/W
PTOT: 14 W **PLED: 12 W** **1 x 12 W LED** **CCT 3000K - Ra 80 +** **energy label 1**		**113**		**91**
		LED Lm		lamp Lm
		1355	**94%**	**1274**

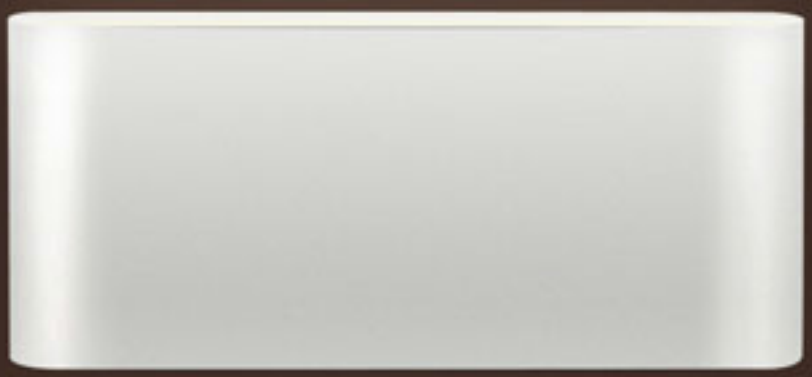




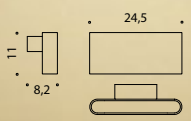


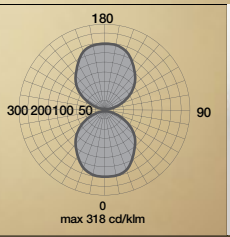


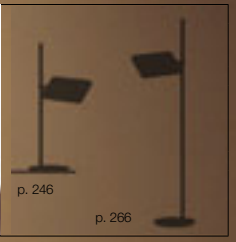
TWO FLAGS WALL *Ernesto Gismondi, Neil Poulton 2011*



material diffuser	material structure	colour	symbols	emission
17	* 18 / 13	◇ ◆ ◇*	IP20 F	
		η LED Lm/W	R	η lamp Lm/W
PTOT: 18 W **PLED: 15,2 W** **direct: 96LED 7,6W** **indirect: 96LED 7,6W** **CCT 3000K - Ra 80 +** **energy label 1**		**52,5**		**38**
		LED Lm		lamp Lm
		806	**85%**	**685**







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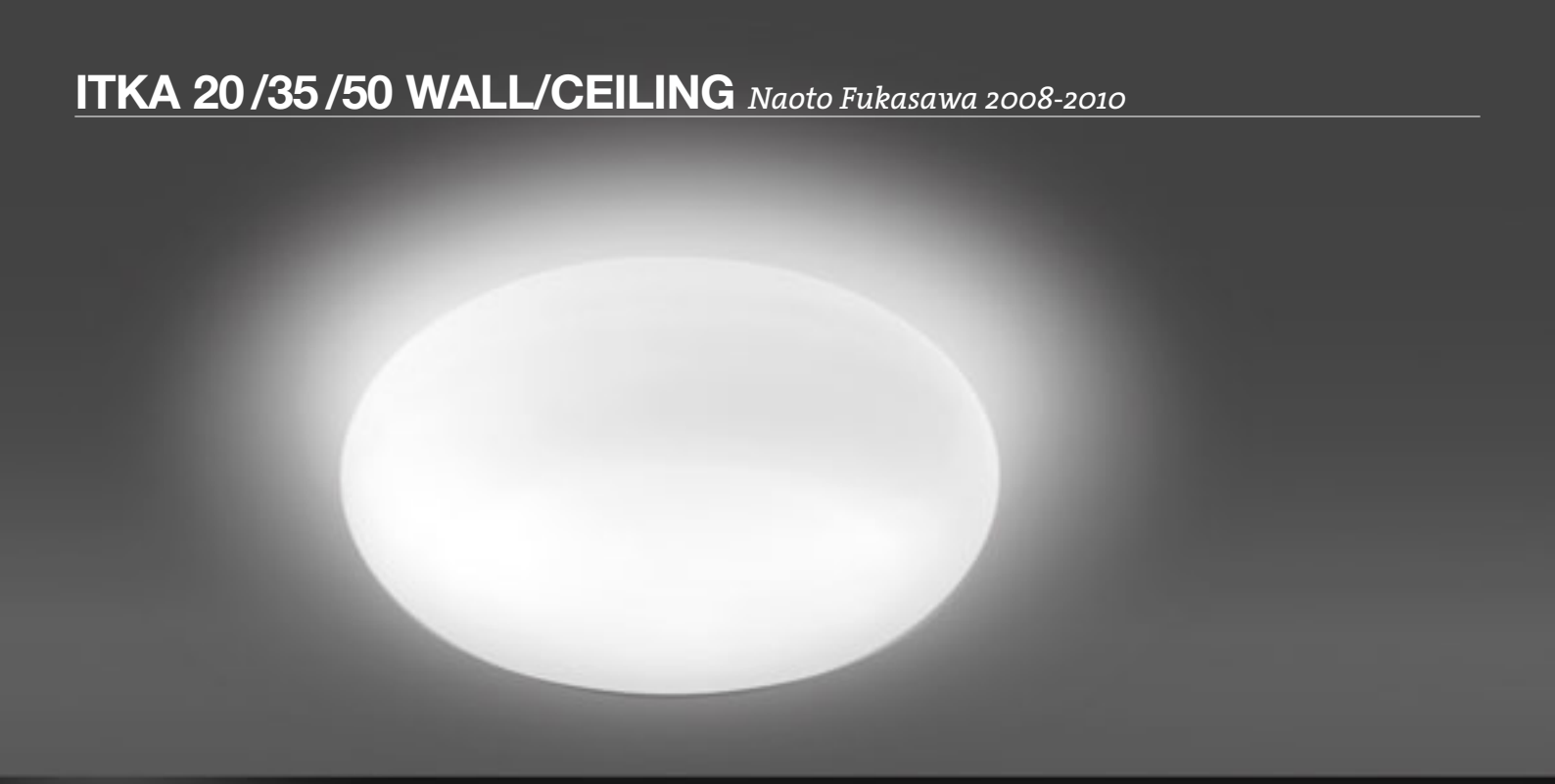
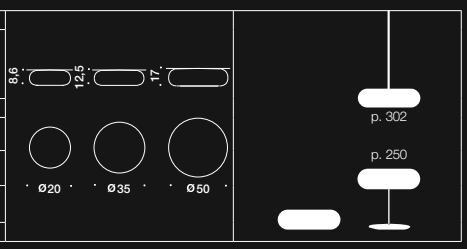
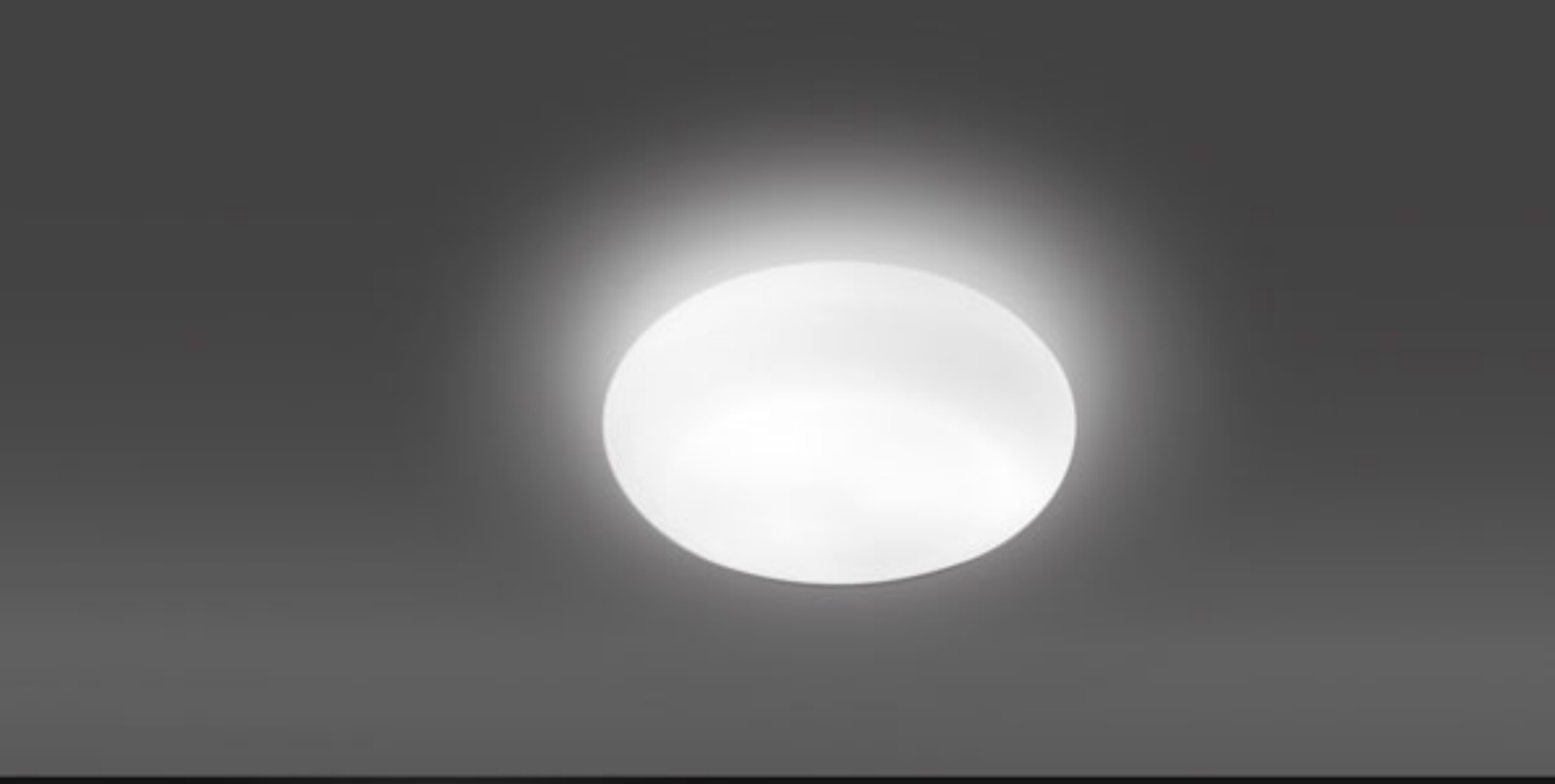
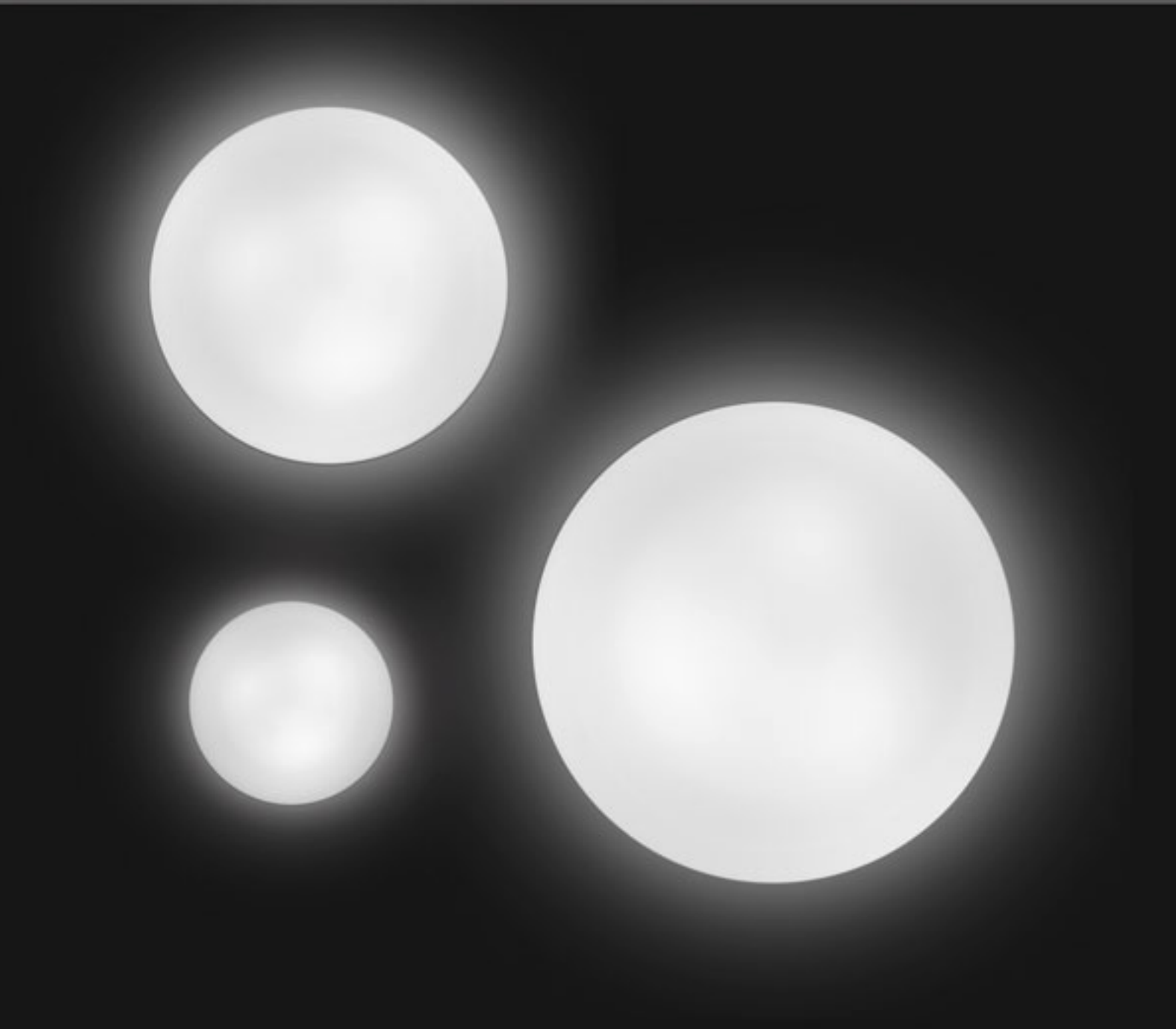
ITKA 20 /35 /50 WALL/CEILING *Naoto Fukasawa 2008-2010*



material diffuser	material structure	colour	symbols	emission
9	19	◆	IP20 IP65*	
		η lamping Lm/W	R	η lamp Lm/W
itka 50: 3x23W (E27) FBT		**65**	**61%**	**40**
***itka 35: 3x10W (E14) FBT**		**58**	**60%**	**35**
***itka 20: 9W (Gx53) FB**		**31**	**60%**	**19**
energy label 11				



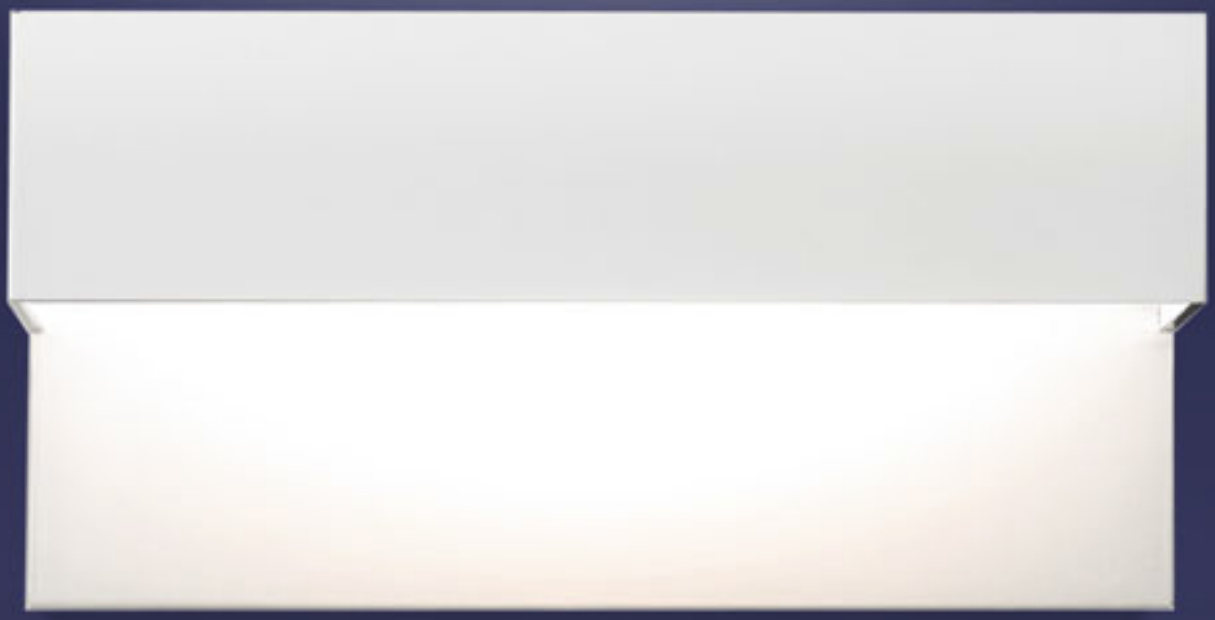




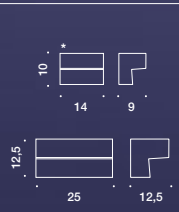
XIAO TET WALL/CEILING *Carlotta de Bevilacqua, Laura Pessoni 2010*

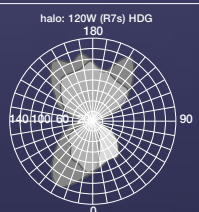
material diffuser	material structure	colour	symbols	emission
13 / 24	18 / 13		IP20	
PTOT: 7 W **PLED: 5,5 W** **direct: 4 LED** **indirect: 1 LED** **CCT 3000K - Ra ≥ 80** **energy label 1**		η LED Lm/W **97** LED Lm **535**	R **85%**	η lamp Lm/W **65** lamp Lm **455**
HALO: 60W (G9) HSGST **energy label 9**		η lamping Lm/W **16**	R **85%**	η lamp Lm/W **14**

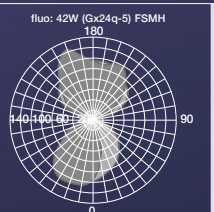
ARU *Alberto Zecchini 2005*

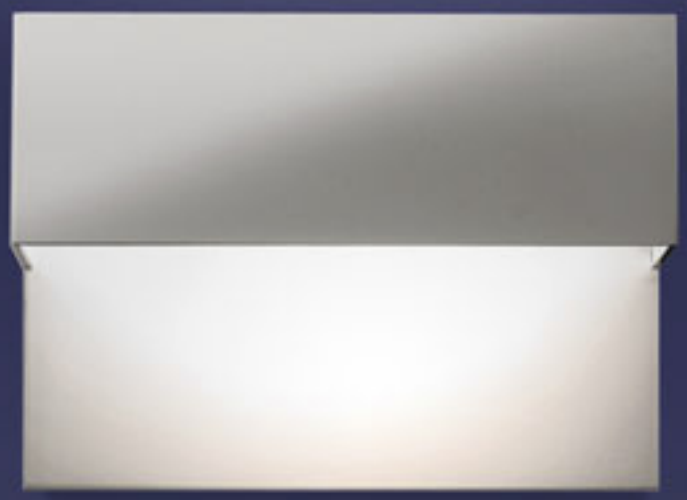


material diffuser	material structure	colour	symbols	emission
19	19	* ◆ ◆	IP20 F	
		η lamping Lm/W	R	η lamp Lm/W
*halo: 120W (R7s) HDG 74,9 mm		19	68%	13
fluo: 42W (Gx24q-4) FSMH		76	69%	52
halo: energy label 14 fluo: energy label 11				



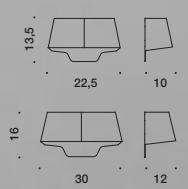


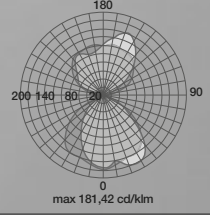


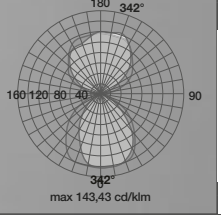


LETI 22/30 *Matteo Ragni 2008*

material diffuser	material structure	colour	symbols	emission
19 + 11*	19	◇	IP20 F	
		η lamping Lm/W	R	η lamp Lm/W
leti 22: 18W (Gx24q-2) FSMH		**67**	**87%**	**58**
leti 30: 42W (Gx24q-4) FSMH		**76**	**68%**	**52**
energy label 11				



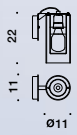


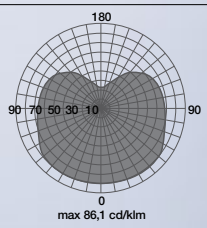


* optional shield diffuser

KISKA WALL *Studio63 2005*

material diffuser	material structure	colour	symbols	emission
10 + 11	18	◇	IP20 F ⏚	⊙
		η lamping Lm/W	R	η lamp Lm/W
20W (E27) FBG		**58**	**85%**	**49**
max 77W (E27) HSGSA				
energy label 4				





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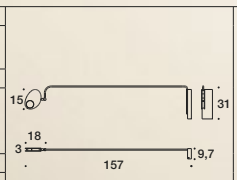
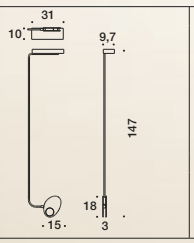
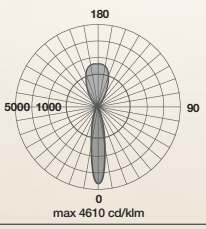
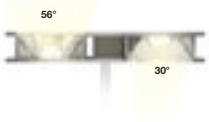
INDRA WALL/CEILING *Laura Pessoni 2014*

material diffuser	material structure	colour	symbols	emission
13 + 4	19	◇ ◇	IP20 F	
		η LED Lm/W	R	η lamp Lm/W
P_{TOT}: 23 W **P_{LED}: 18 W** **direct: 1 LED** **indirect: 1 LED** **CCT 3000K - Ra 80** **energy label 1** dimmable		**87**		**75**
		LED Lm		lamp Lm
		1566	**86%**	**1346**



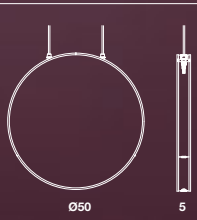


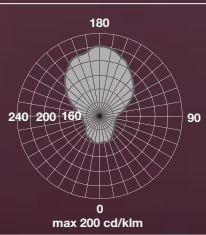


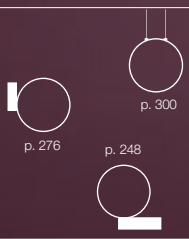


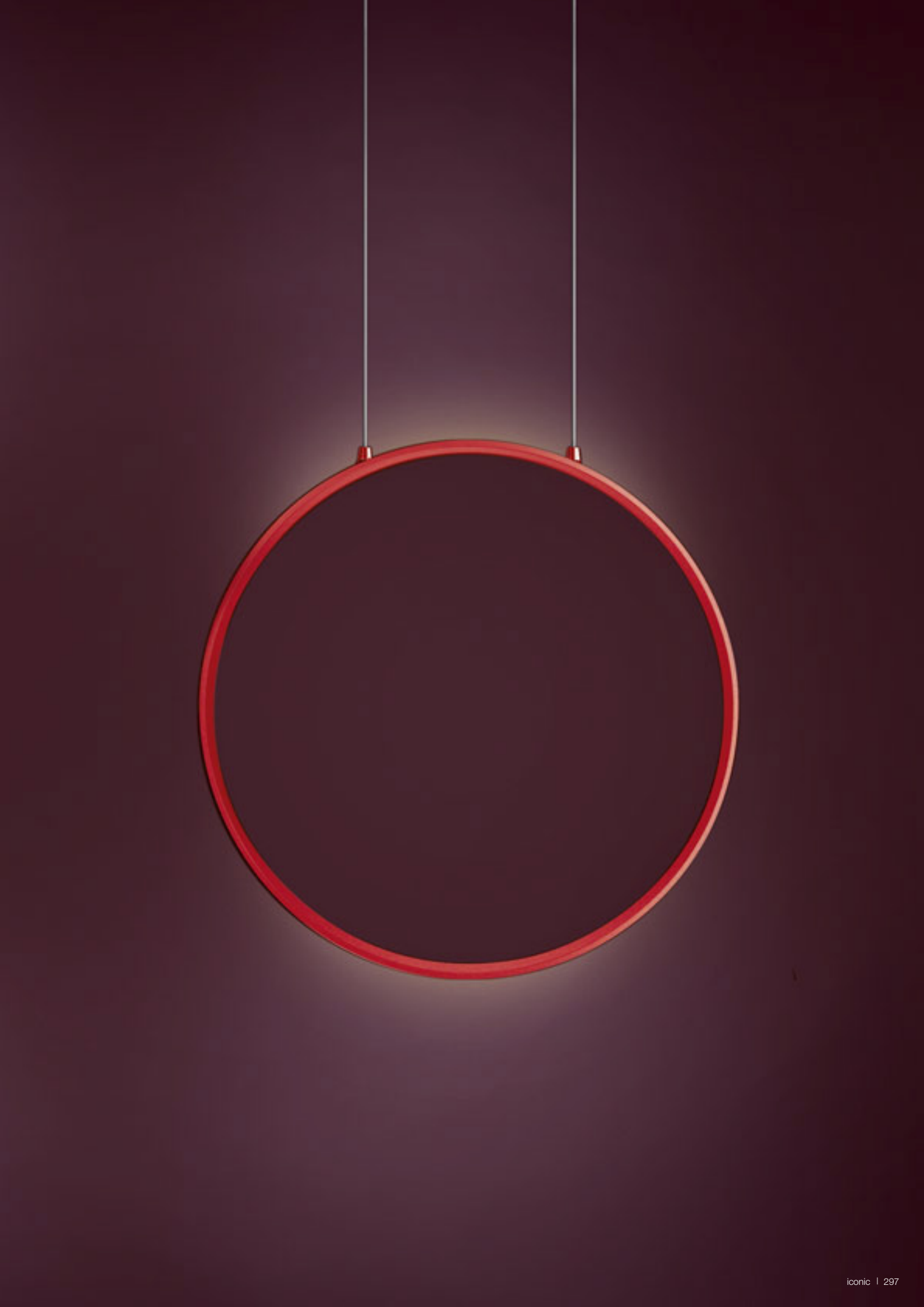
ECLITTICA 50 *Carlotta de Bevilacqua 2013*

material diffuser	material structure	colour	symbols	emission
	13 / 23	◆ ◆ ◆ ◆	IP20 F	⊙
PTOT: 33,5 W **PLED: 30 W** **direct: 8W LED** **indirect: 22W LED** **CCT 3000K - Ra 80** **energy label 1** direct and indirect light with indipendent on/off dimming		η LED Lm/W **100** LED Lm **3000**	R **100%**	η lamp Lm/W **100** lamp Lm **3000**

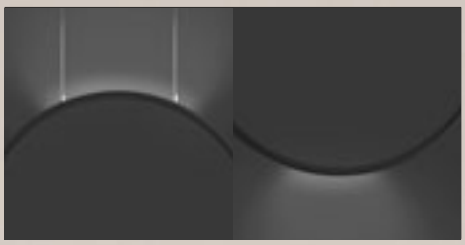






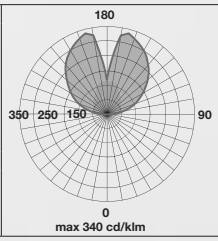


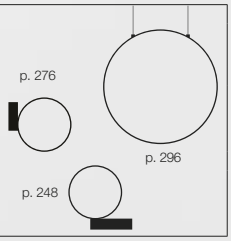
indirect direct



ECLITTICA 20 *Carlotta de Bevilacqua, 2013*

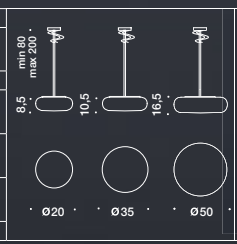
material diffuser	material structure	colour	symbols	emission
	13 / 4	◇ ◆ ◆ ◆	IP20 F ⏚	⊙
		η LED Lm/W	R	η lamp Lm/W
PTOT: 14 W **PLED: 12 W** **1x12 W LED** **CCT 3000K - Ra 80+** **energy label 1**		**113**		**91**
		LED Lm		lamp Lm
		1355	**94%**	**1355**

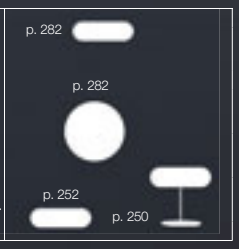




ITKA 20 /35 /50 *Naoto Fukasawa 2008-2010*

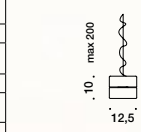
material diffuser	material structure	colour	symbols	emission
9	19	◆	IP20 F	⊙
		η lamping Lm/W	R	η lamp Lm/W
itka 50: 3x23W (E27) FBT		**65**	**61%**	**40**
itka 35: 3x10W (E14) FBT		**58**	**60%**	**35**
itka 20: 9W (Gx53) FB		**31**	**60%**	**19**
energy label 11				

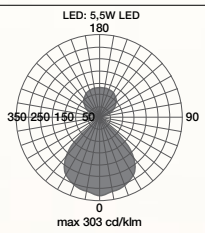


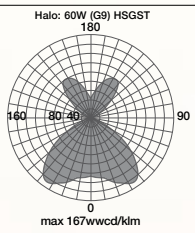


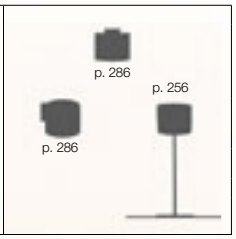
XIAO TET *Carlotta de Bevilacqua, Laura Pessoni 2007 - 2010*

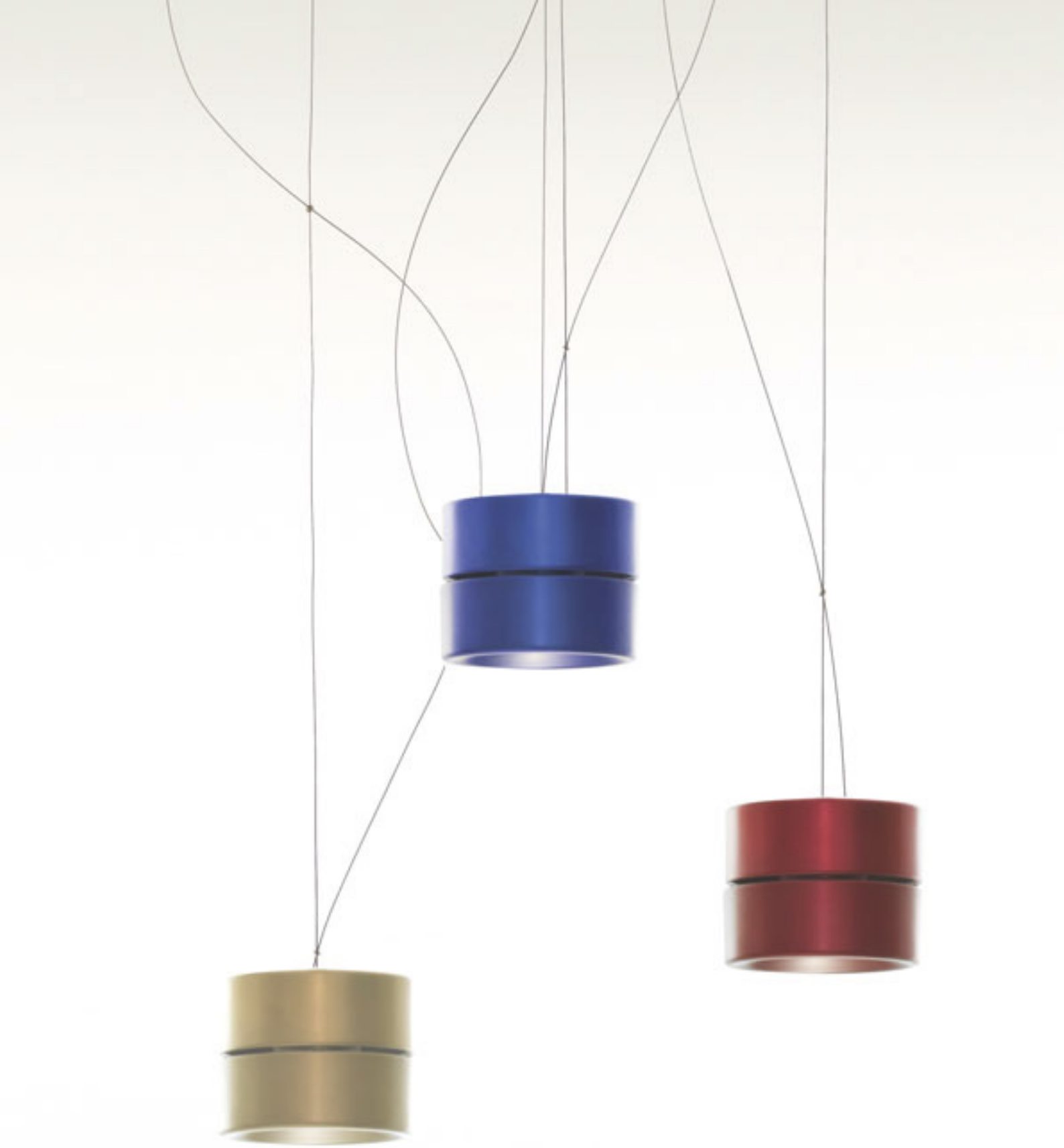
material diffuser	material structure	colour	symbols	emission
13 / 24	13	◇ ◈ ◆ ◆ ◆ ◇	IP20 F	
PTOT: 7 W **PLED: 5,5 W** **direct: 4 LED** **indirect: 1 LED** **CCT 3000K - Ra ≥ 80** **energy label 1**		η LED Lm/W **97** LED Lm **535**	◇R **85%**	η lamp Lm/W **65** lamp Lm **455**
HALO : 60W (G9) HSGST **energy label 9**		η lamping Lm/W **16**	◇R **85%**	η lamp Lm/W **14**





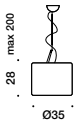


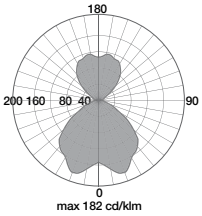


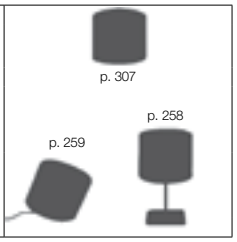


TET *Carlotta de Bevilacqua 2005*

material diffuser	material structure	colour	symbols	emission
13	18	◇ ◆ ◆	IP20 F ⏚	
		η lamping Lm/W	R	η lamp Lm/W
20W (E27) FBG		**58**	**70%**	**41**
max 77W (E27) HSGSA				
energy label 4				

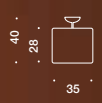


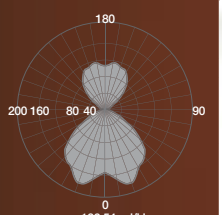


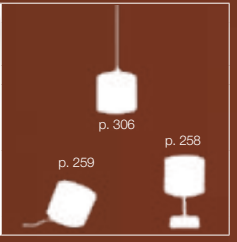


TET CEILING *Carlotta de Bevilacqua 2005*

material diffuser	material structure	colour	symbols	emission
13	18		IP20 F	
		η lamping Lm/W	R	η lamp Lm/W
20W (E27) FBG		**58**	**70%**	**41**
max 77W (E27) HSGSA				
energy label 4				

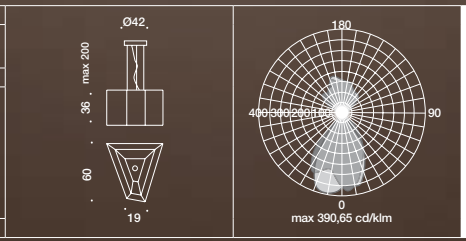






ORION BETA *Carlotta de Bevilacqua 2008*

material diffuser	material structure	colour	symbols	emission
16 + 7	12	◆	IP20 F	⋈
		η lamping Lm/W	R	η lamp Lm/W
42W (Gx24q-4) FSMH		**76**	**84%**	**64**
energy label 11				

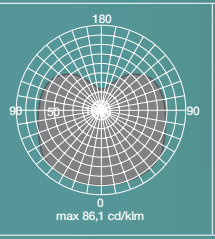


HBM 52 *Carlotta de Bevilacqua 2006*

material diffuser	material structure	colour	symbols	emission
8 + 7	16 + 18	◆	IP20 F ⏚	⊙
		η LED Lm/W	R	η lamp Lm/W
max 2x20W (E27) FBG		**58**	**50%**	**29**
energy label 4				

KISKA *Studio63 2005*

material diffuser	material structure	colour	symbols	emission
10 + 11	18	◆	IP20 F	⊙
		η lamping Lm/W	R	η lamp Lm/W
20W (E27) FBG		**58**	**85%**	**49**
max 77W (E27) HSGSA	Ø max 70mm			
energy label 4				



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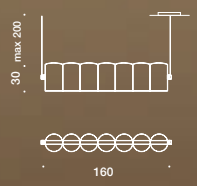
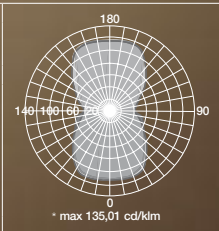
KERMESSE 160 *Giulio Iacchetti 2010*

material diffuser	material structure	colour	symbols	emission
5	12 + 10		IP20 F	
		η lamping Lm/W	R	η lamp Lm/W
kermesse 90: 1x39W (G5)FDH		**79**	**63%**	**50**
kermesse160: 1x80W (G5)FDH		**78**	**85%**	**66**
energy label 2				

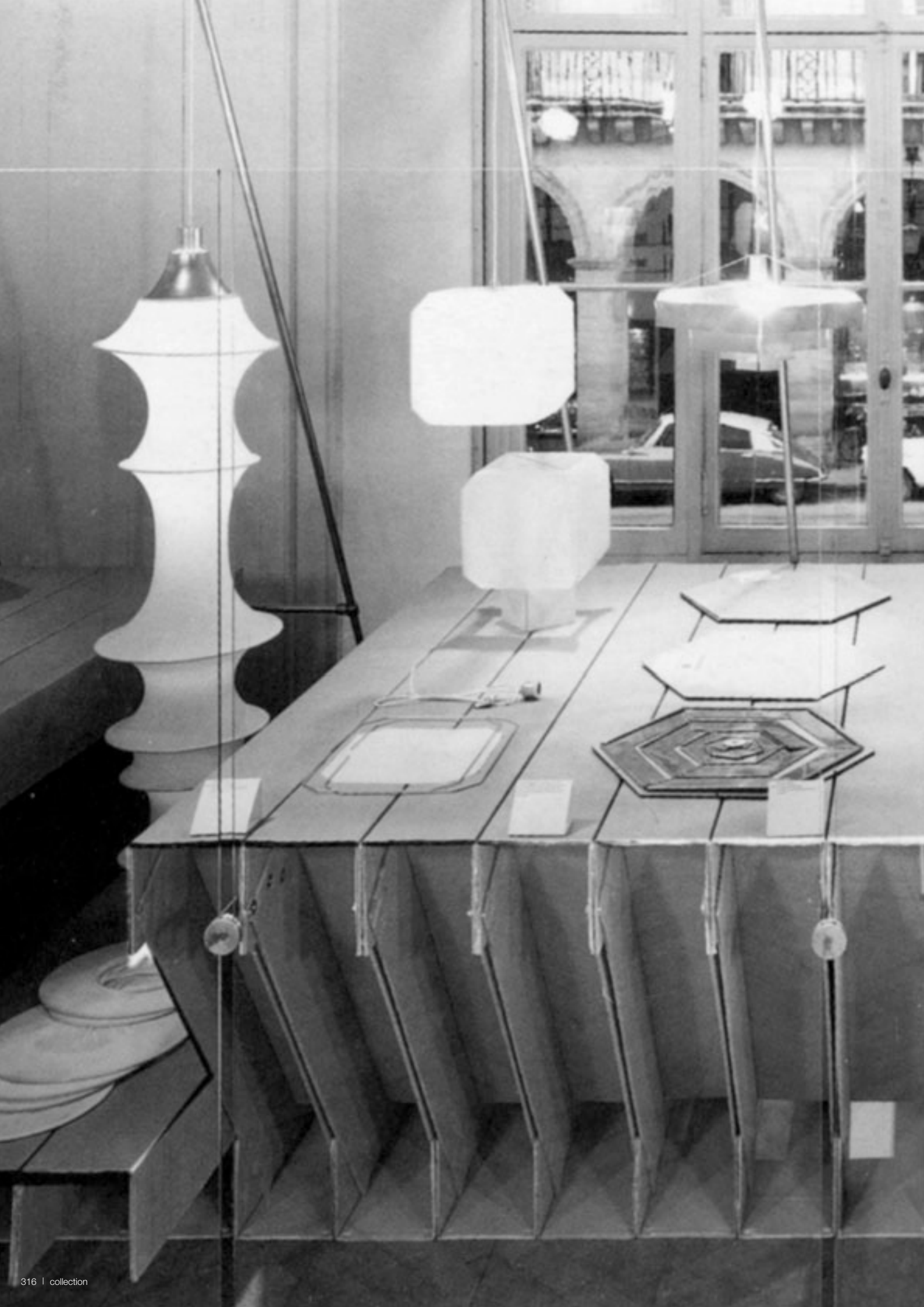


KERMESSE 20/90 *Giulio Iacchetti 2010*

material diffuser	material structure	colour	symbols	emission
5	12	◆◆*	IP20	
		η lamping Lm/W	*R	η lamp Lm/W
20W (E27) FBG		58	85%	49
energy label 11				

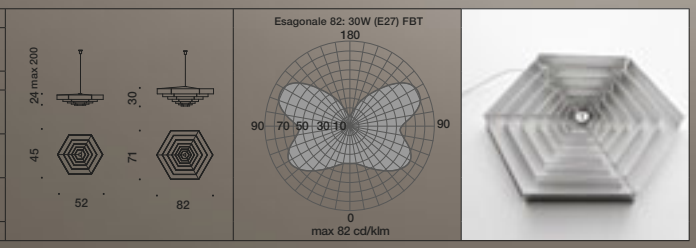


DANESE **COLLECTION**



LAMPADA ESAGONALE *Bruno Munari 1959*

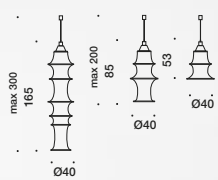
material diffuser	material structure	colour	symbols	emission
16 / 13	17	◆ ◇	IP20 F	⊙
		η lamping Lm/W	R	η lamp Lm/W
esagonale: 30W (E27) FBG		**65**	**75%**	**49**
esagonale 82: 30W (E27) FBG		**65**	**75%**	**49**
MAX 105W (E27) HSGSA				
energy label 4				

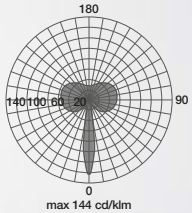


FALKLAND *Bruno Munari 1964*

suspension

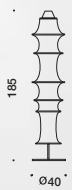
material diffuser	material structure	colour	symbols	emission
2	12	◇	*IP20* F ⏚	⊙
		η lamping Lm/W	R	η lamp Lm/W
falkland 53: max22W (E27) FBG		**58**	**63%**	**37**
falkland 85: max22W (E27) FBG		**58**	**58%**	**34**
falkland 165: max22W (E27) FBG		**58**	**56%**	**32**
MAX 77W (E27) HSGSA - **energy label 4**				

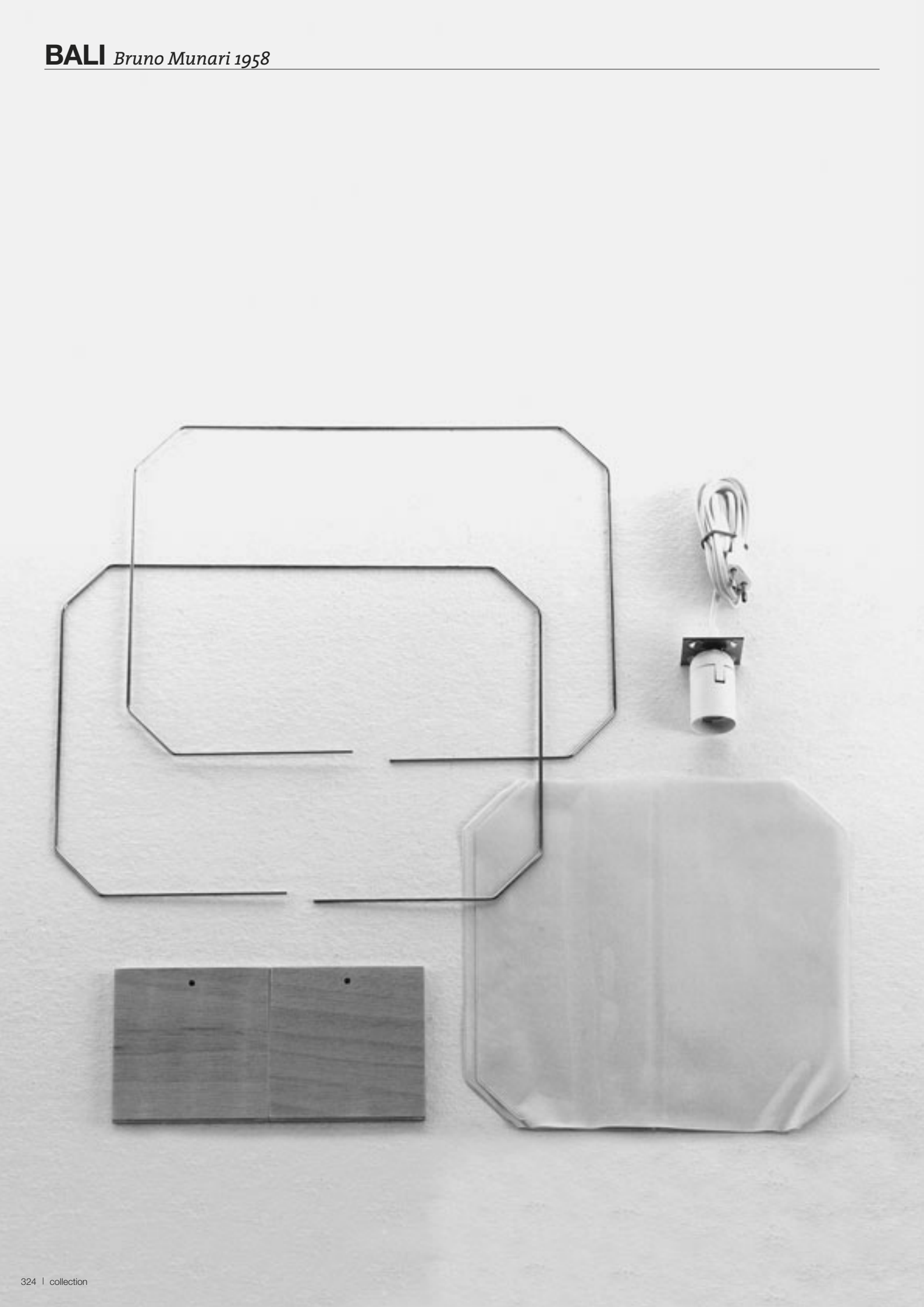




FALKLAND floor

material diffuser	material structure	colour	symbols	emission
2 + 12	19	◇	IP20 F	⊙
		η lamping Lm/W	R	η lamp Lm/W
max22 W (E27) FBG		**58**	**56%**	**32**
MAX 77W (E27) HSGSA				
energy label 4				





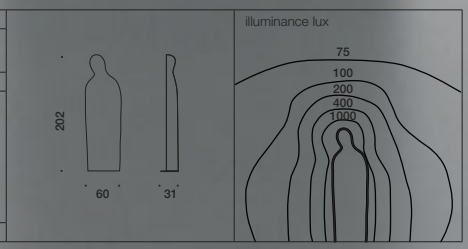
material diffuser	material structure	colour	symbols	emission
28 + 20 / 21	1	◆	IP20 F	⊙
		η lamping Lm/W	R	η lamp Lm/W
14W (E27) FBG		**53**	**81%**	**43**
46W (E27) HSGSA				
energy label 4				

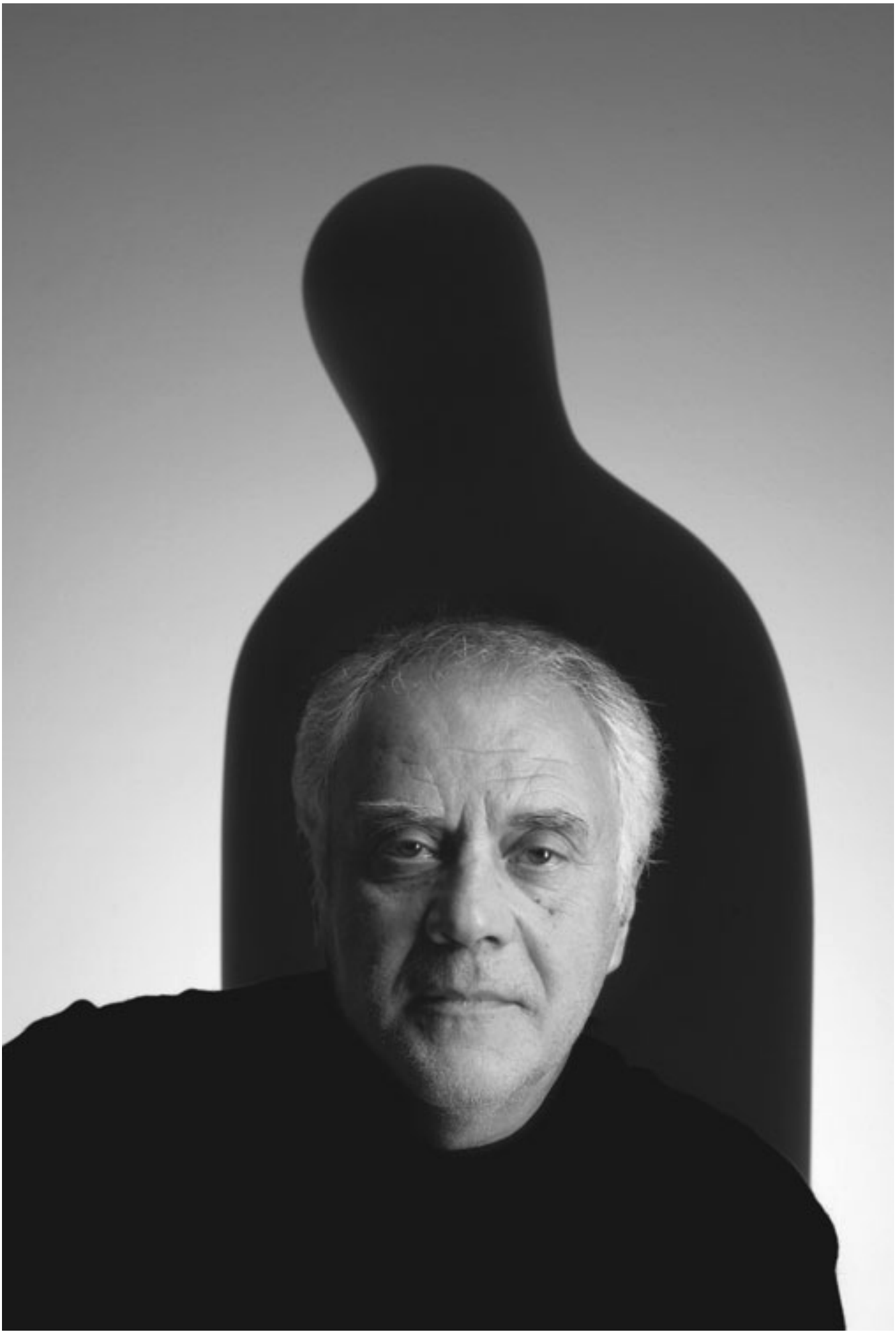
43

40

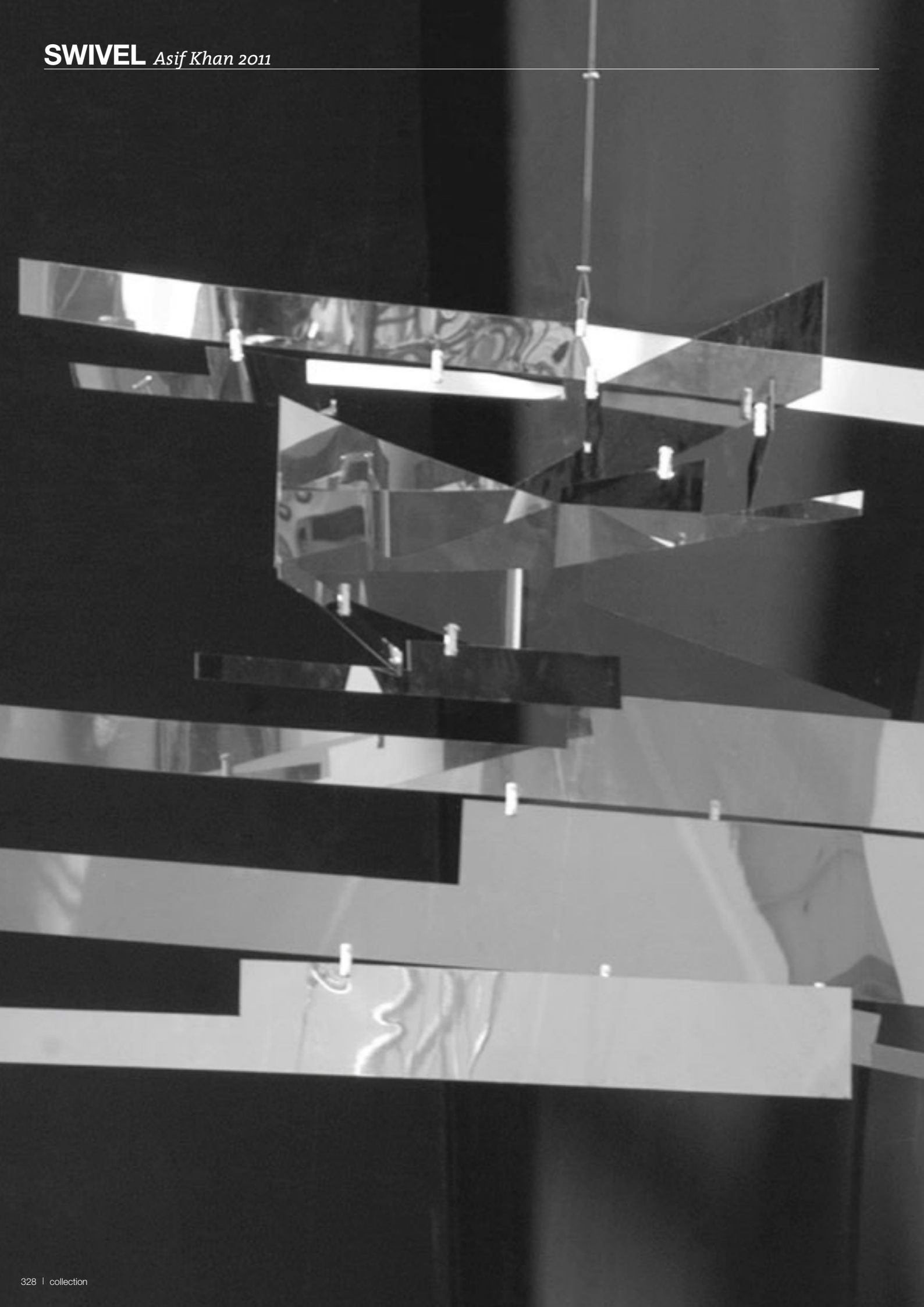
DULCINEA *Mimmo Paladino 2007*

material diffuser	material structure	colour	symbols	emission
16	19 + 22	◇	IP20	
		η lamping Lm/W	R	η lamp Lm/W
2x80W (G5) FDH + 36W (2G10) FSSH		**77**	**65%**	**50**
energy label 8				

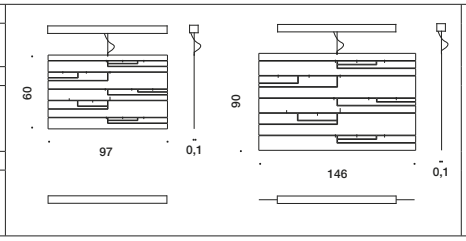


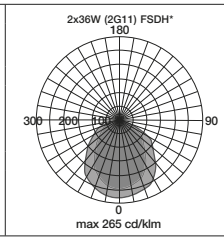


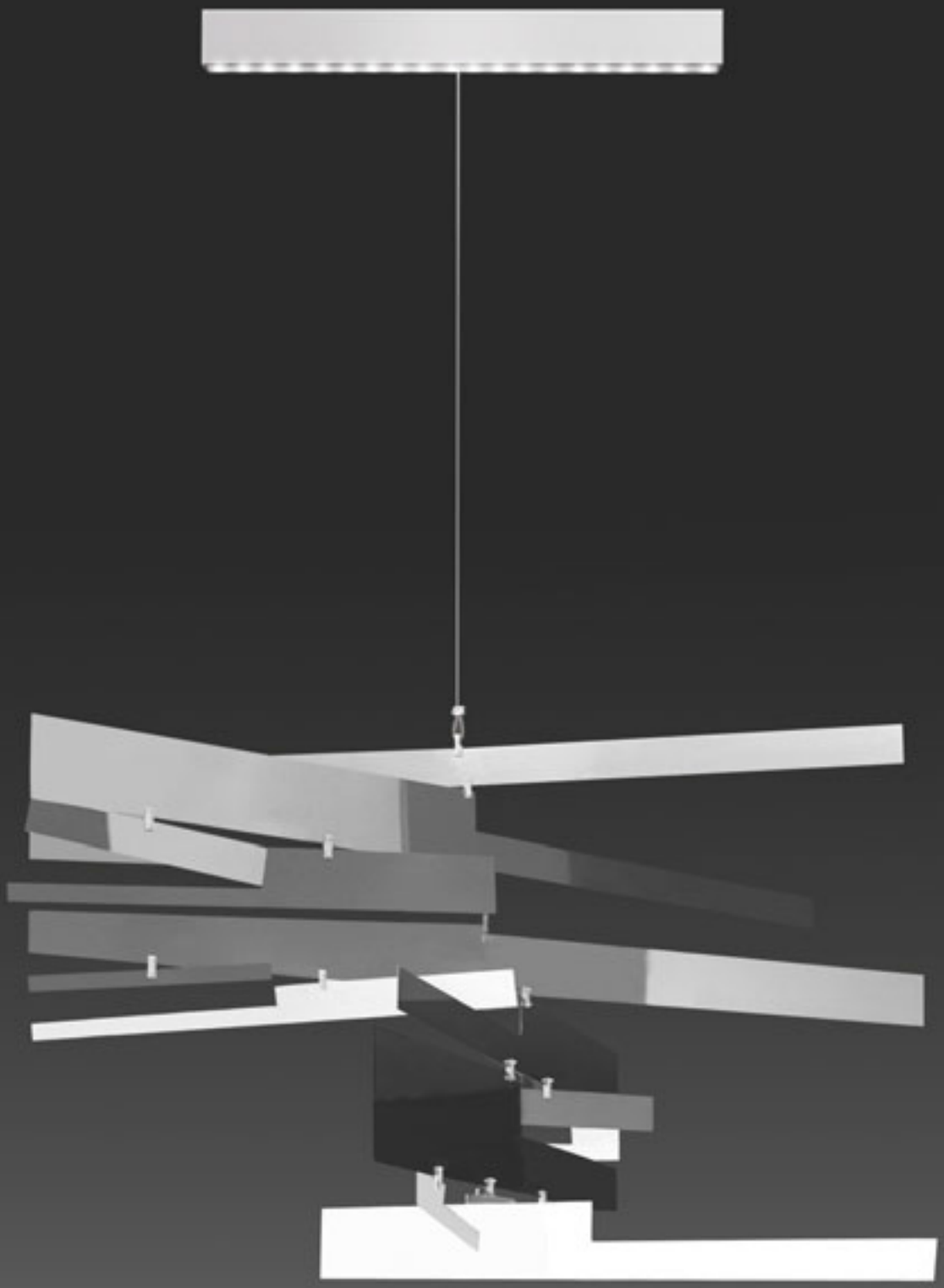
SWIVEL *Asif Khan 2011*



material diffuser	material structure	colour	symbols	emission
25	25	◇ ◆	IP20 F	
PTOT: 25 W **PLED: 20 W** **1 x 12 W LED** **CCT 3700K - Ra 80** **energy label 1** *calculated without reflection body interaction		η LED Lm/W **80,5** LED Lm **1610**	R **50%**	η lamp Lm/W **33** lamp Lm **805**



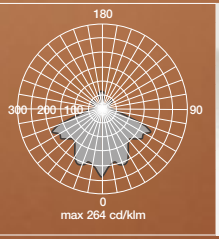


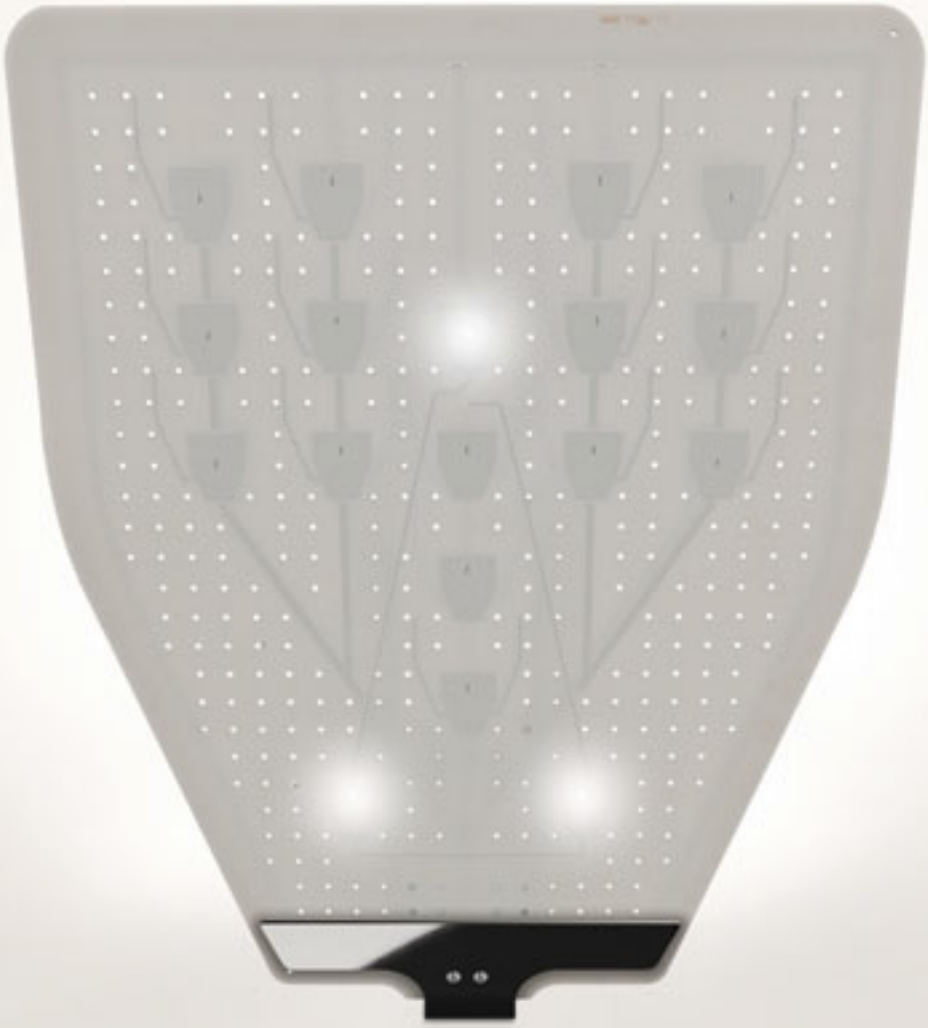


COURT CIRCUIT *Matali Crasset 2011*

suspension

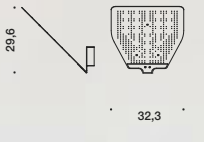
material diffuser	material structure	colour	symbols	emission
25	25 + 24	◆ ◆ ◆	IP20 F	
		η LED Lm/W	R	η lamp Lm/W
PTOT: 36 W **PLED: 30,5 W** **direct: 75x0,3W LED** **indirect: 15x0,3W LED** **CCT 3000K - Ra 80** **energy label 1**		**64**		**51**
		LED Lm		lamp Lm
		1950	**94%**	**1833**

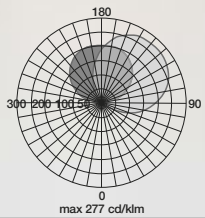




COURT CIRCUIT wall

material diffuser	material structure	colour	symbols	emission
27	18	◇ ◆ ◆	IP20 F ⏚	⧓
		η LED Lm/W	R	η lamp Lm/W
PTOT: 26 W **PLED: 22,5 W** **direct: 15x1,2W LED** **indirect: 3x1,2W LED** **CCT 3000K - Ra 80** **energy label 1**		**57**		**48**
		LED Lm		lamp Lm
		1285	**98%**	**1260**



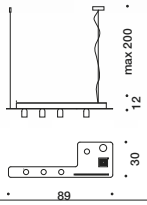


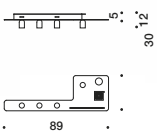
COCKTAIL *Marti Guixé 2011*

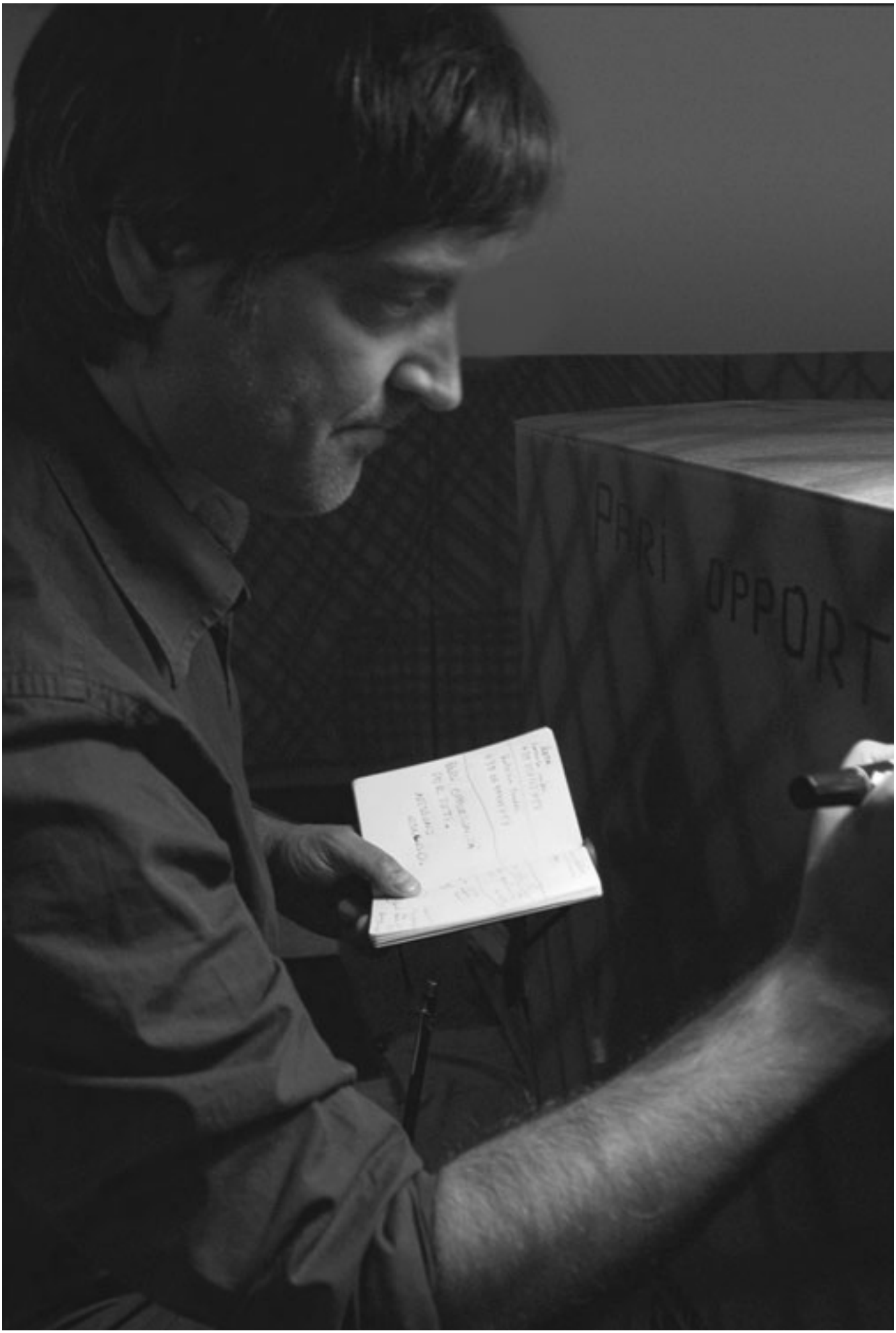
suspension - ceiling

material diffuser	material structure	colour	symbols	emission
13	19	◇ ◆	IP20 F	
P_{TOT} 19,5W - P_{LED} 15,4W		η LED Lm/W	R	η lamp Lm/W
		88	100%	70
*4x(E27)		variable	variable	variable

LED CCT 3000K – Ra 80
LED included, bulbs not included, E27 free composition
energy label 7



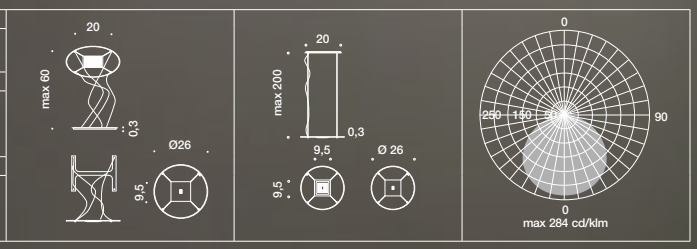



PARI OPPORT

FILMOGRAFICA *Marti Guixé 2011*

table - suspension

material diffuser	material structure	colour	symbols	emission
	19 + 12	◆	IP20 F	
		η LED Lm/W	R	η lamp Lm/W
PTOT: 11 W **PLED: 7,5 W** **direct: 84 LED** **indirect: 6 LED** **CCT 3000K - Ra 80** **energy label 1**		**75**		**61**
		LED Lm		lamp Lm
		540	**100%**	**540**



DANESE **DATA**

SIMBOLI, SYMBOLS, SYMBOLES, SYMBOLE

CLASSE I, CLASS I, CLASSE I, SCHUTZKLASSE I

Apparecchio nel quale la sicurezza elettrica è garantita da un conduttore supplementare di protezione (messa a terra) collegato alla struttura metallica della lampada.

EN - Class I - A light fitting whose safety is guaranteed by an additional protective conductor (earth) connected with the metal frame of the lamp.
FR - Classe I - A ppareil où la sécurité électrique est garantie par un conducteur supplémentaire de protection (mise à la terre) connecté à la structure métallique de la lampe.
D - Schutzklasse I - Beim Betrieb und bei der Wartung müssen alle berührbaren Metallteile der Leuchte, die im Fehlerfall Spannung annehmen können, leitend mit dem Schutzleiteranschluß verbunden sein.

CLASSE II, CLASS II, CLASSE II, SCHUTZKLASSE II

Apparecchio nel quale la protezione contro la scossa elettrica non si basa unicamente sull'isolamento fondamentale, ma anche sulle misure supplementari di sicurezza costituite dal doppio isolamento o dall'isolamento rinforzato. Queste misure non comportano dispositivi per la messa a terra e non dipendono dalle condizioni di installazione.

EN - Class II - Light fittings whose safety is guaranteed by the double reinforced insulation of conductive parts, with no earth.
FR - Classe II - Appareil où la sécurité électrique est garantie par un double niveau d'isolation sans dispositif de mise à la terre.
D - Schutzklasse II - Bie Leuchten der Klass II ist der Berührungsschutz durch eine Schutzisolierung gegeben. Alle spannungführenden Teile haben außer der Betriebsisolation noch eine zusätzliche isolation.

CLASSE III, CLASS III, CLASSE III, SCHUTZKLASSE III

Apparecchio nel quale la protezione contro la scossa elettrica si basa unicamente sull'alimentazione a bassissima tensione di sicurezza e in cui non si producono tensioni superiori alla stessa. Nota: un apparecchio in classe III non deve essere provvisto di messa a terra di protezione.

EN - Class III - The light fixture is fitted with a protection device against electric shock that features a very low voltage power supply and prevents it from generating higher voltages. Note: a class III fixture does not have to be equipped with a protection grounding.
FR - Classe III - Appareil dans lequel la protection contre le chocs élwctriques se base sur l'alimentation à très basse tension de sécurité et dans lequelne se produisent pas de tensions supérieures à 50V. Note: un appareil classe III ne nécessite pas de mis à la terre.
D - Schutzklasse III - Diese Leuchte ist mit einer Schutzvorrichtung versehen, die einen Betrieb mit einer Schutzkeinspannung vorsieht und keine höheren Spannungen zuläßt. Bemerkung: eine Luchte der Klasse III wird mit keiner Schulzerdund ausgestattet.

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Tutti i prodotti DANESE che rientrano nell'ambito di applicazione della direttiva europea bassa tensione B.T. 2006/95/CE soddisfano i requisiti richiesti.

EN - All DANESE products falling within the range of application of the European low voltage directive B.T. 2006/95/EC meet the required specifications.
FR - Tous les produits DANESE appartenants au champ d'application de la directive européenne basse tension B.T. 2006/95/CE remplissent les conditions prévues.
D - Alle Produkte von DANESE, die unter das Anwendungsgebiet der europäischen Richtlinie der Niederspannung B.T. 2006/95/EG fallen, entsprechen den erforderlichen Eigenschaften.

-

Il simbolo indica l'idoneità degli apparecchi al montaggio diretto su superfici normalmente infiammabili. Gli apparecchi privi del suddetto simbolo sono idonei ad essere installati esclusivamente su superfici non combustibili.

EN - The symbol indicates the suitabily of fixtures to be mounted directly on normally infiammable surfaces.
Fixtures without the above symbol are only suitable for installation on fire resistant surfaces.
FR - Le symbole indique que les appareils sont indiqués pour être montés directement sur des surfaces normalement inflammables.
Les appareils ne portant pas ce symbole peuvent être montés exclusivement sur des surfaces non combustibles.
D - Das Symbol zeigt an, ob die Geräte dazu geeignet sind, auf normal entflammbaren Oberflächen angebracht zu werden.
Geräte ohne dieses Symbol sind ausschließlich dazu geeignet, auf nicht entflammbaren Oberflächen angebracht zu werden.

GRADO DI PROTEZIONE IP, DEGREE OF PROTECTION IP, INDICE DE PROTECTION IP, SCHUTZART IP

IP20 - IP65

Gli apparecchi elettrici sono predisposti per impedire l'intrusione e il contatto di corpi solidi e liquidi con le parti in tensione. La resistenza alla penetrazione di solidi o liquidi è espressa dalla sigla IP, seguita da due numeri che esprimono il grado di protezione: la prima cifra è riferita ai corpi solidi, la seconda ai liquidi.

EN - Degree of protection IP - Electric fittings are preset in order to prevent the intrusion and contact with solids and liquids with live parts. Resistance against the penetration of solids and liquids is expressed by the initials IP, followed by two digits that stand for the degree of protection: the first referring to solids, the second to liquids.
FR - Indice de protection IP - Les appareils èlectriques sont conçus afin d'èviter toute intrusion ou contact de corps solides et liquides avec les parties sous tension. La rèsistance à la pènètration de solides ou liquides est exprimèe par le sigle IP, suivi de deux chiffres qui expriment le degrè de protection: le premier chiffre concerne les corps solides, le second les liquides.
D - Schutzart IP - Die Leuchten sind ausgestattet, um das Eindringen und den Kontakt von Festkörpern und Flüssigkeiten zu verhindern.
Hinter den Kennbuchstaben "IP" gibt die erste Kennziffer den Fremdkörperschutz an, die zweite Kennziffer den Schutz gegen Eindringen von Wasser.

EMISSIONI / EMISSIONS / EMISSIONS / LICHTVERTEILUNG

diffused	double emission	indirect	direct	spot	wall washer

LED: LED flux (lm) x **R** = Lamp flux (lm)

OTHER SOURCES: ηlamping x **R** = ηlamp

SOURCE EFFICIENCY = ηLAMPING

Esprime la capacità di una sorgente di trasformare l'energia elettrica assorbita in energia luminosa

Expresses the capacity of a source to transform the electrical energy absorbed into luminous energy
Exprime la capacité qu'a une source de transformer l' énergie électrique absorbée en énergie lumineuse
Drückt die Fähigkeit einer Lichtquelle aus, die absorbierte elektrische Energie in Leuchtenergie umzuwandeln

EFFICIENCY = R

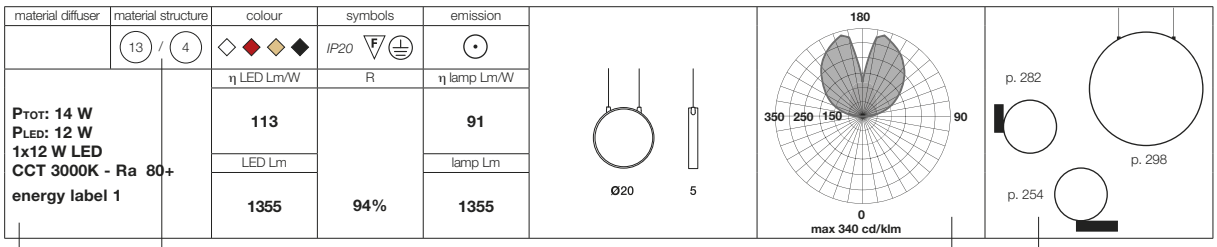
Esprime la capacità di un apparecchio di distribuire il flusso delle sorgenti con il minimo di perdite dovute all'assorbimento da parte del riflettore-diffusore o ad altri fattori

The relationship expressed in percentage conveys the capability of a fixture to distribute the stream of the sources with minimum losses due to the absorption of the reflector-diffuser or other reasons
Rapport exprimé en pourcentage qui exprime la capacité qu'a l'appareil de distribuer le flux des sources avec un minimum de pertes induites par l'absorption du réflecteur - diffuseur ou autres facteurs
Das in Prozent ausgedrückte Verhältnis gibt die Fähigkeit eines Gerätes wieder, den Lichtfluss der Quellen mit einem minimalen Verlust, der auf die Absorption durch den Reflektor/Diffusor oder andere Faktoren zurückzuführen ist, zu verteilen

LAMP EFFICIENCY = ηLAMP

Esprime la capacità un apparecchio di trasformare l'energia elettrica assorbita in energia luminosa

Expresses the capacity of the fixture to transform the electrical energy absorbed into luminous energy
Exprime la capacité qu'a un appareil de transformer l' énergie électrique absorbée en énergie lumineuse
Drückt die Fähigkeit eines Gerätes aus, die absorbierte elektrische Energie in Leuchtenergie umzuwandeln



sorgente con il migliore rendimento / sorgenti alternative

best efficiency source / alternative sources
source avec le meilleure rendement / sources alternatives
Lichtquelle mit der besten leistung / alternative Lichtquellen

materiali, colori, simboli, emissioni p. 339

materials, colours, symbols, emission p. 339
matériels, couleurs, symboles, emissions p. 339
materialien, farben,symbole, lichtverteilung p. 339

famiglia, numero di pagina

product family, page number
famille produit, numéro de page
produktfamilie, Seitenzahl

CURVA FOTOMETRICA
Rappresenta la distribuzione delle intensità luminose (espresse in Candele/1000 KLm) emesse dall' apparecchio su piani passanti per l'asse ottico dello stesso.

PHOTOMETRIC BEND
it represents the light intensity distribution (in candles/1000 KLm) emitted by the luminaire on the planes that contain the optical axis of the luminaire.
COURBE PHOTOMÉTRIQUE
Elles représente la distribution des intensités lumineuses (exprimées en Candelas/1000 KLm) transmises par l'appareil sur des plans passant par l'axe optique de celui-ci.
FOTOMETRISCHE KURVEN
Sie stellen die Verteilung der Lichtintensitäten (ausgedrückt in Hefner-Kerzen/1000 KLm) dar, die vom Gerät auf die durchkommenden Ebene der Zielachse abgegebene werden.

MATERIALI, MATERIALS, MATÉRIELS, MATERIALEN

1. Multistrato noce chiaro, light walnut-tree multilayer, noyer clair multicouches, helles Nussbaumsperrholz
2. Maglia elastica , elastic fabric, maille élastique, elastisches Gewebe
3. Tessuto, fabric, tissu, Gewebe
4. Policarbonato, polycarbonate, polycarbonate, Polycarbonate
5. PMMA
6. Rete pvc, pvc net, filet en pvc, Netz aus PVC
7. Film specchiante traslucido, reflecting traslucent film, film réflecteur traslucide, reflektierender, durchscheinender Film
8. Petg
9. Vetro opalino acidato satinato, opal acid-etched satin-finisched glass, verre opalin satiné traité a l'acide, geätztes satiniertes opalfarbiges Glas
10. Pirex
11. Pirex sabbiato, sand-blasted Pirex, Pirex sablé, gesandstrahltes Pirex
12. Alluminio, aluminium, aluminium, Aluminium
13. Alluminio verniciato, painted aluminium, aluminium peint, lackiertes Aluminium
14. Metallo satinato verniciato trasparente, varnished satin-finished metal, métal satiné verni transparent, Transparent lackiertes satiniertes Metall
15. Alluminio con circuito stampato,aluminium with painted circuit board, aluminium avec circuit imprimé, Aluminium mit Leiterpla
16. Alluminio ottico, optic aluminiun, métal optique, optisches Aluminium
17. Alluminio lucidato, polished aluminium, aluminium poli, poliertem Aluminium
18. Metallo cromato, chromed metal, métal chromé, verchromtes Metall
19. Metallo verniciato, painted metal, metal peint, lackiertes Metall
20. Ottone, brass, laiton, Messing
21. Ottone nikelato, nickel-plated brass, laiton nickelé, vernickeltes Messing
22. ABS verniciato, painted ABS, ABS verni, lackiert ABS
23. Circuito stampato flessibile, flexible printed circuit board, Circuit imprimé flexible, flexible Leiterplatte
24. Alluminio anodizzato, anodized aluminium, aluminium anodisé, eloxiertes Aluminium
25. Acciaio lucidato, polished steel, acier poli, Polirete Stahl
26. Specchio, mirror, miroir, spiegel
27. FR4
28. PVC
29. Ceramica, ceramic, céramique, keramisch
30. Marmo, marble, marbre, marmor

COLORI, COLOURS, COULEURS, FARBEN

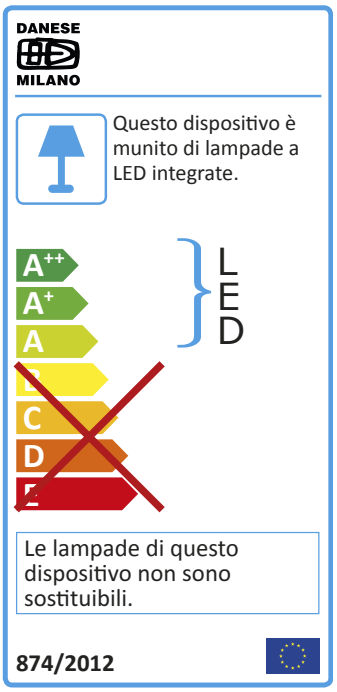
- ◇ Bianco, white, blanc, weiß
- ◆ Nero, black, noir, schwarz
- ◆ Nero marrone, black brown, noir brun, schwarz braun
- ◆ Greyge
- ◆ Rosso beige, red beige, beige rouge, rot beige
- ◇ Grigio chiaro, light grey, gris clair, hellgrau
- ◆ Silver, silver, argent, silber
- ◆ Alluminio, aluminium, aluminium, aluminium
- ◆ Cromo, chromo, chromé, chrom
- ◆ Grigio calamina, calamine-grey, gris calamine, Kalamingrau
- ◆ Legno, wood, bois, holzfarbig
- ◆ Arancio, orange, orange, orange
- ◆ Rosso, red, rouge, rot
- ◆ Blu elettrico, electric blue, bleu électrique ,elektrischblau
- ◆ Marrone, brown, brun, braun
- ◆ Rosso, red, rouge, Rot RAL 3020
- ◆ Arancio, orange, orange, orange RAL 2008t
- ◆ Giallo, yellow, jaune, Gelb RAL 1015
- ◆ Giallo, yellow, jaune, Gelb
- ◆ Viola, purple, violet, Lila
- ◆ Blu, blue, bleu, Blau RAL 5000
- T Testurizzato, textured, texturisè, texturisiert
- TR Trasparente, transparent, transparent, transparent
- O Opalino, opaline, opaline, opal

SORGENTI, LIGHT SOURCES, SOURCES, LAMPEN

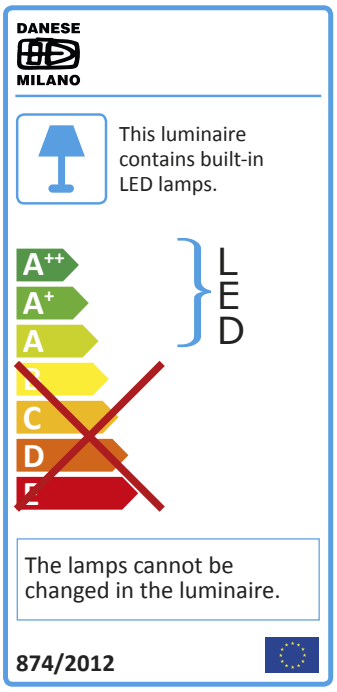
modello	W	attacco	ILCOS	LBS	Lm	Lm/W	classe energetica
	9	GX53	FB	TC-TSE	280	31	A
	10	E14	FBT	TC-TSE	580	58	A
	18	E27	FBT	TC-TSE	1140	63	A
	22	E27	FBT	TC-TSE	1440	65	A
	30	E27	FBT	TC-TSE	1900	64	A
	9	E14	FBG 85mm	TCG-SE	235	26	A+/E
	14	E27	FBG	TCG-SE	740	53	A+/E
	20	E27	FBG	TCG-SE	1152	58	A+/E
	20	E27	FBG	TCA-SE	1100	55	A
	30	E27	FBG	TCG-SE	1940	65	A+/E
	15	E27	LED	-	930	62	A
	15	E27	FBR	TCR-FSE	530	62	A+/E
	39	G5	FDH	T16	3100	79	A
	80	G5	FDH	T16	6150	78	A+/A
	18	Gx24q-2	FSMH	TC-TEL	1200	67	A
	42	Gx24q-4	FSMH	TC-TEL	3200	76	B
	36	2G10	FSSH	TC-F	2800	78	A
	75	E27	HASG-SPOT	PAR 30	620	62	A+/E
	120	R7s	HDG L74,9mm	QT-DE 12	2250	19	C
	46	E14	HSGSP	QT 14	700	26	A+/E
	33	G9	HSGST	QT 14	460	14	C
	60	G9	HSGST	QT 14	980	16	C
	46	E27	HSGSA	QT 14	700	53	A+/E
	77	E27	HSGSA	QT 14	1320	58	A+/E
	105	E27	HSGSA	QT	2135	65	A+/E
	ALL LED						A

ENERGY LABEL

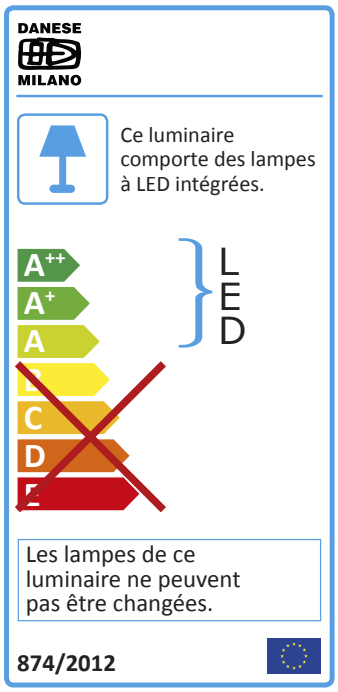
LABEL 1 ITALIANO



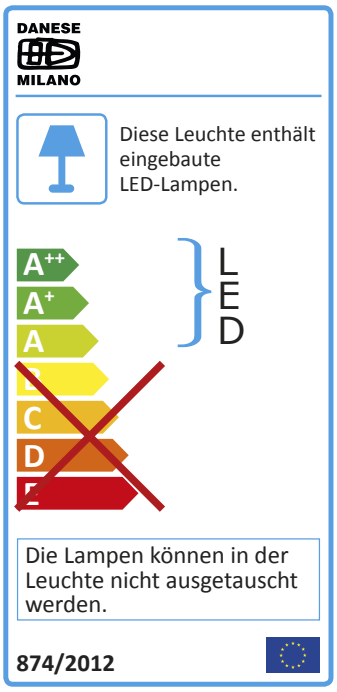
LABEL 1 ENGLISH



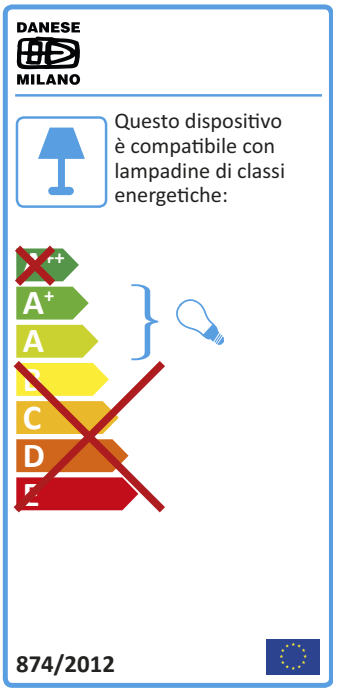
LABEL 1 FRANÇAIS



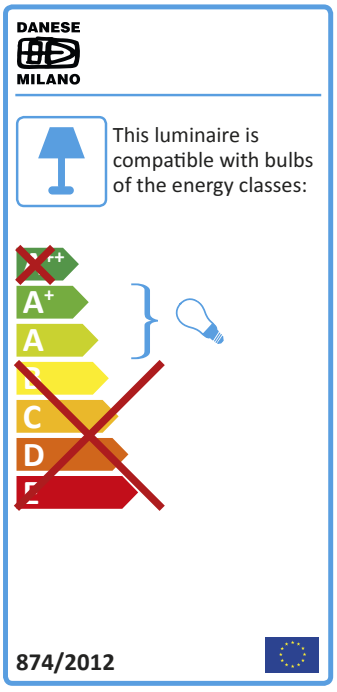
LABEL 1 DEUTSCH



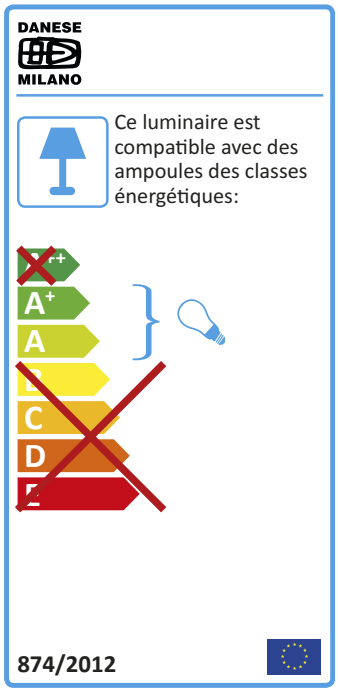
LABEL 2 ITALIANO



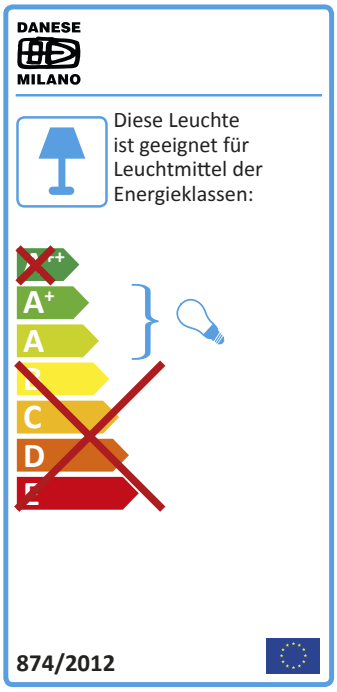
LABEL 2 ENGLISH



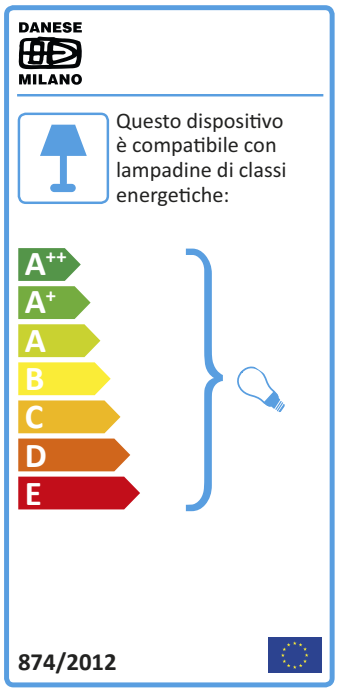
LABEL 2 FRANÇAIS



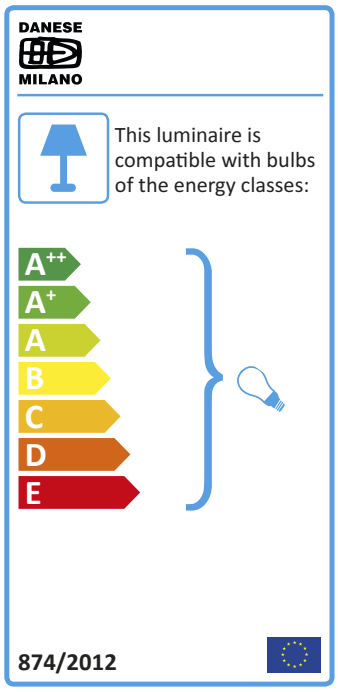
LABEL 2 DEUTSCH



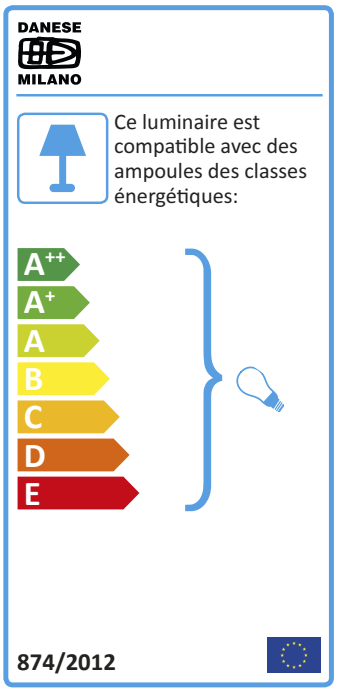
LABEL 3 ITALIANO



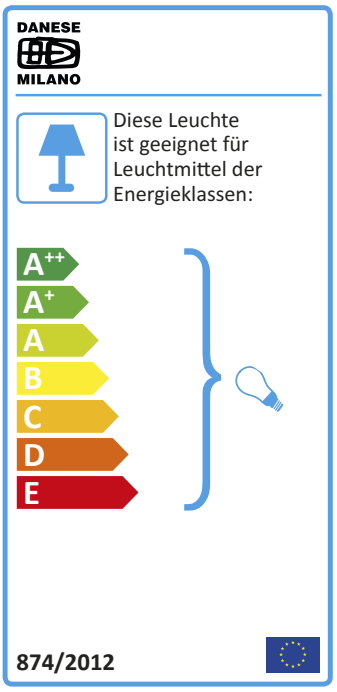
LABEL 3 ENGLISH



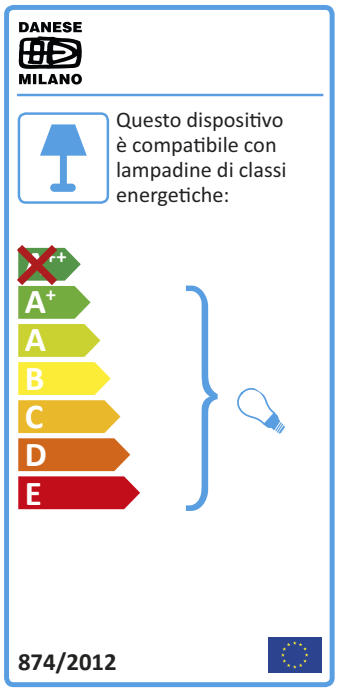
LABEL 3 FRANÇAIS



LABEL 3 DEUTSCH



LABEL 4 ITALIANO



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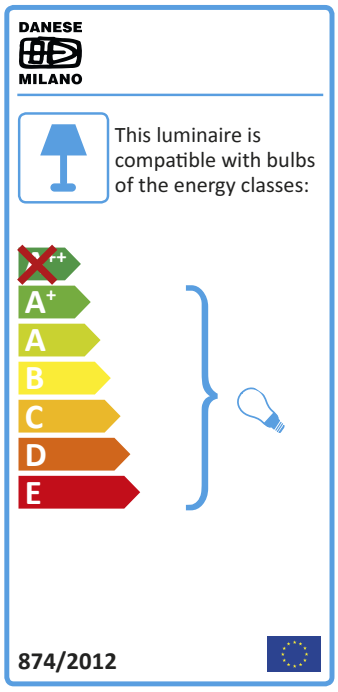

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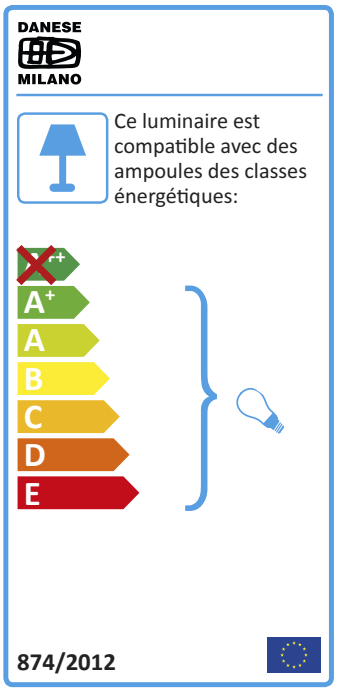

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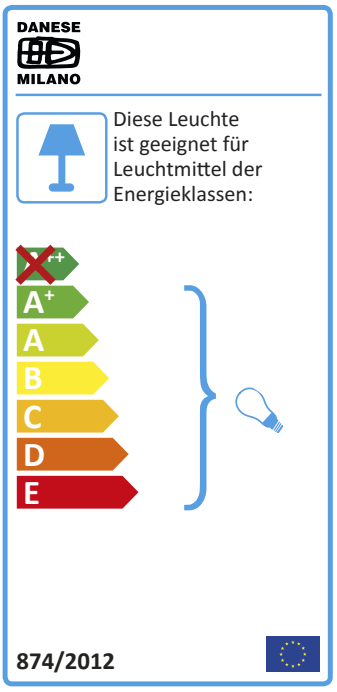

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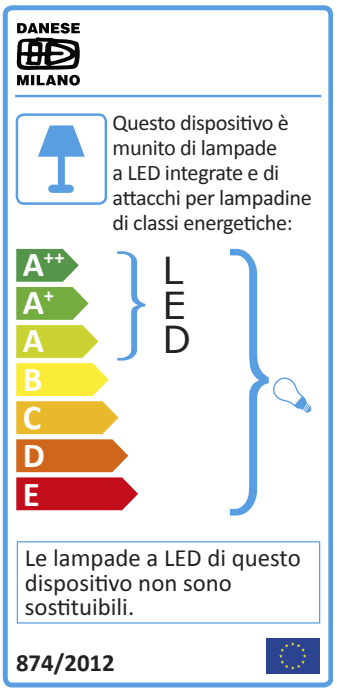

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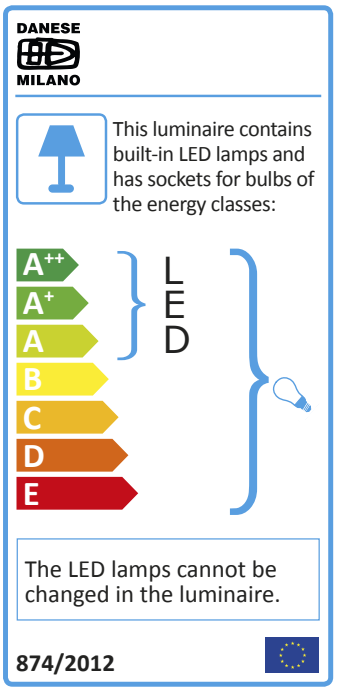

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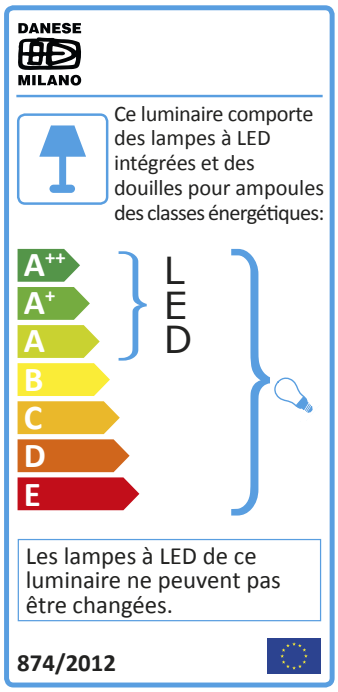

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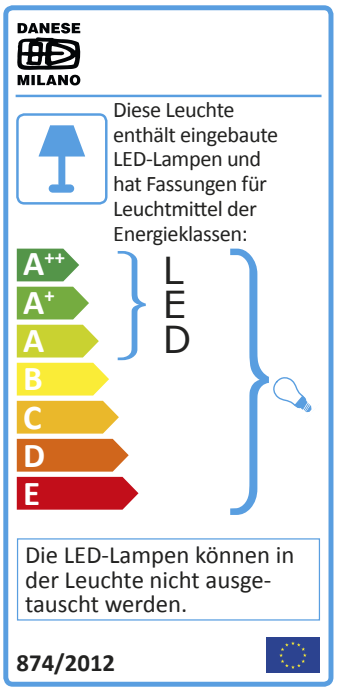

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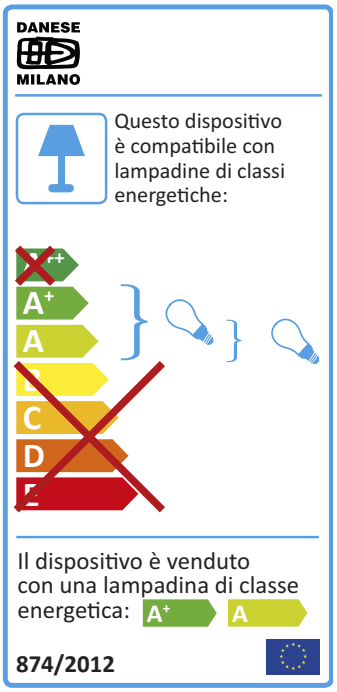

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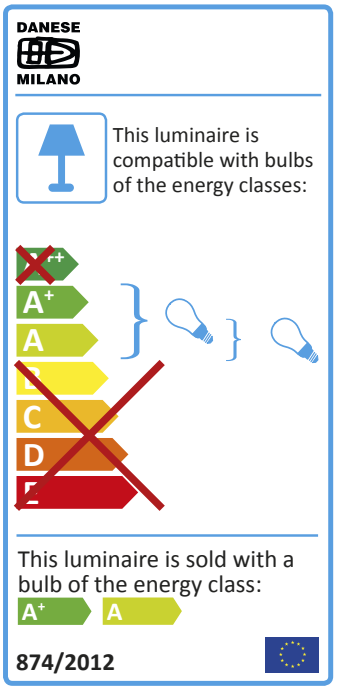

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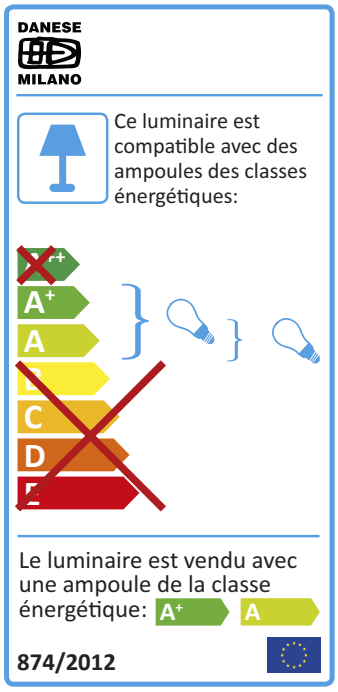

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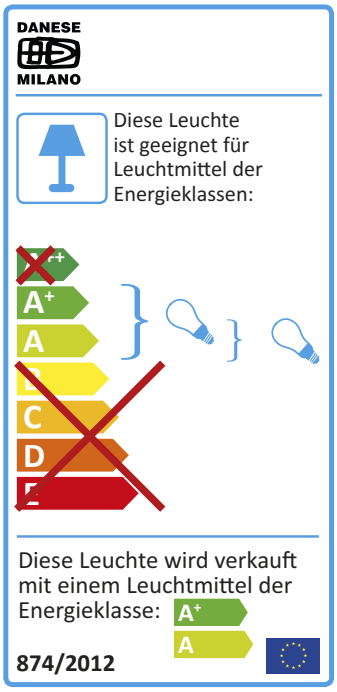

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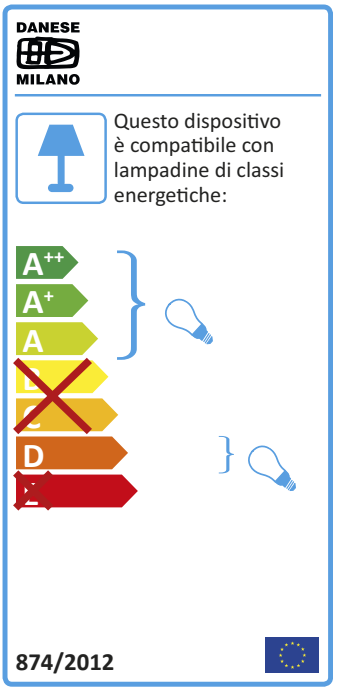

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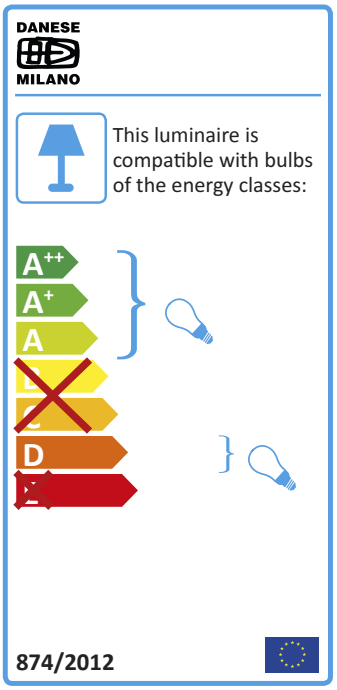

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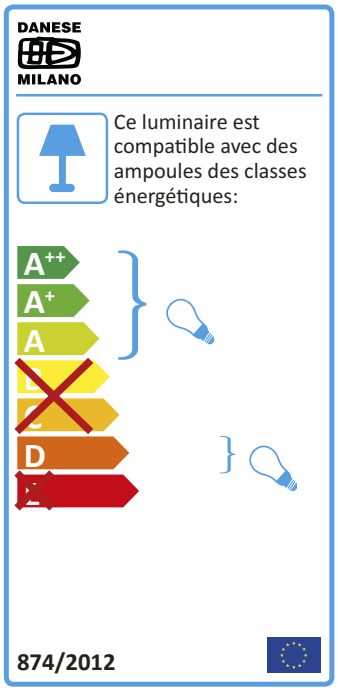

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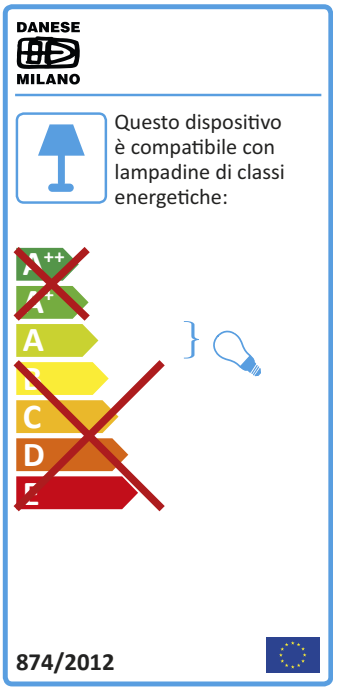

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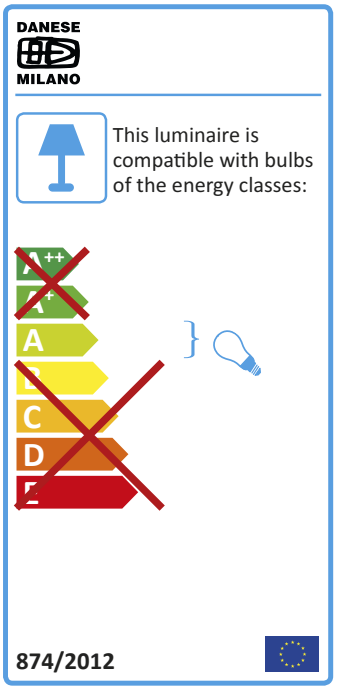

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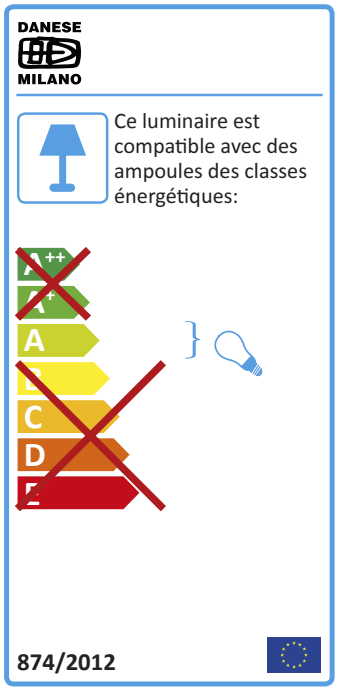

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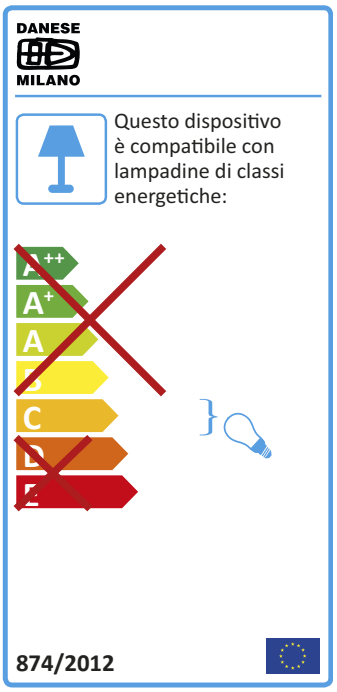

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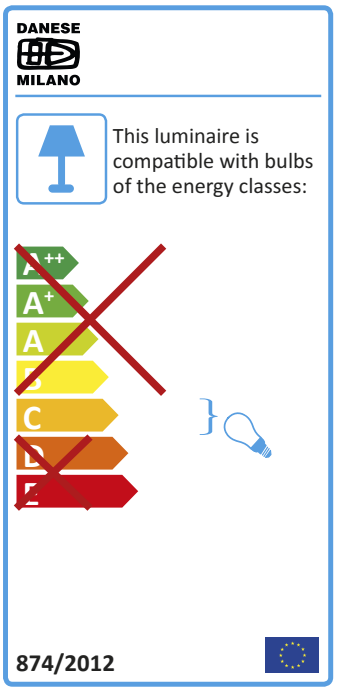

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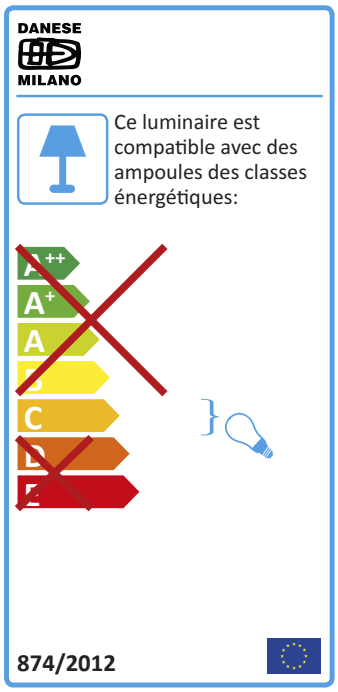

LABEL 14 DEUTSCH

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