LUNA IP40

LUNA

OUTSTANDING HIGH MODULARITY

Photo: CMS Office, London | Photo: KKS Strategy LLP / Timothy Soar
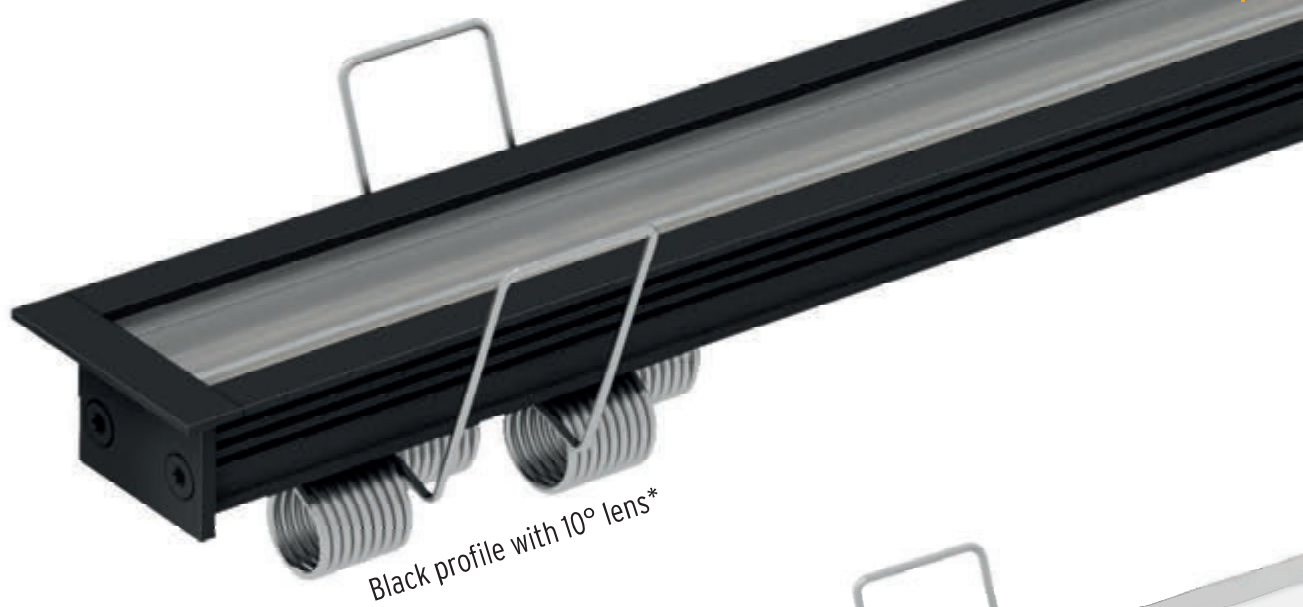
LUNA

Outstanding high modularity –
the elegant lighting solution for recessed applications

LUNA is a lighting solution for recessed applications that lets architecture consistently take precedence. Its elegant luminaire body in three different colors disappears into the ceiling and fits as unobtrusive as possible in any room concept. An advantage is the very low installation depth of only 25 mm (0.98''), which allows the installation in suspended ceilings with low stock allowance. The easy tool-free installation with mounting springs proves to be very user-friendly. In normal ceilings the luminaire is installed with a mounting profile and an installation depth of 20 mm (0.78'').

LUNA is also functionally convincing: with 12 available optics and variable lengths of up to 4 m (13.1') it is suitable for various applications. With the three lenses in 10°, 30° and 60° grazing light effects and targeted light control for highlighting architectural details are possible. The nine available covers in clear, diffuse and opal provide soft light for general lighting. Equipped with powerful LED strips of up to 36 W/m (11 W/ft) the luminaire offers a high luminous flux of up to 5.000 lm/m (1.524 lm/ft).

The luminaire has a protection class of IP40, but the protection classes IP44 and IP67 are also available on request. It is suitable for applications in living rooms, museums, galleries, corridors, shops, hotels and offices.
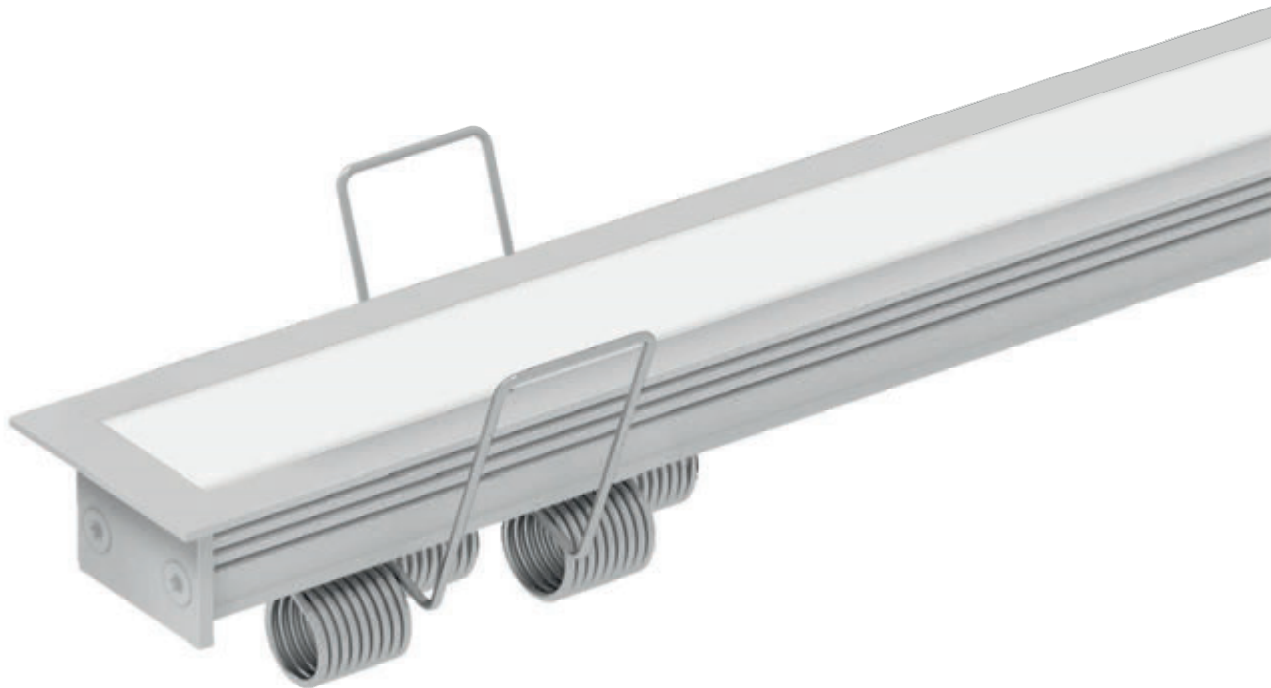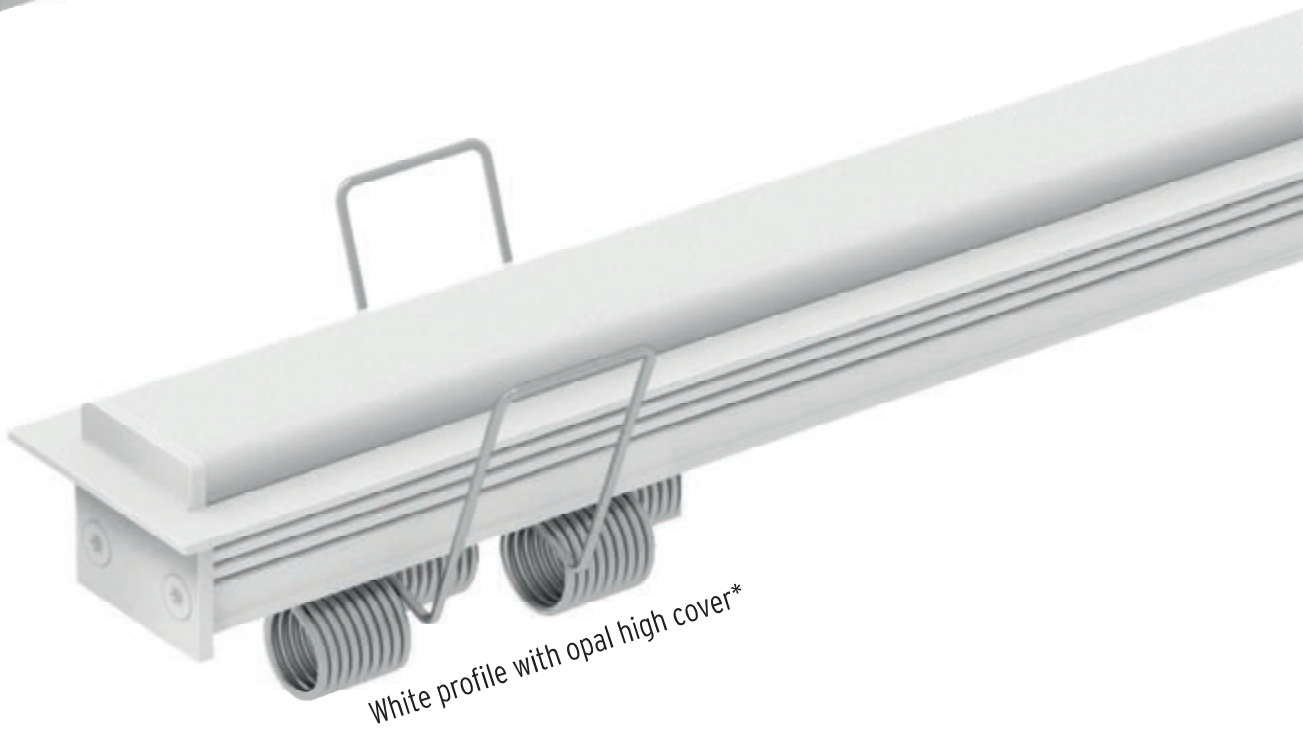
Black profile with 10° lens*
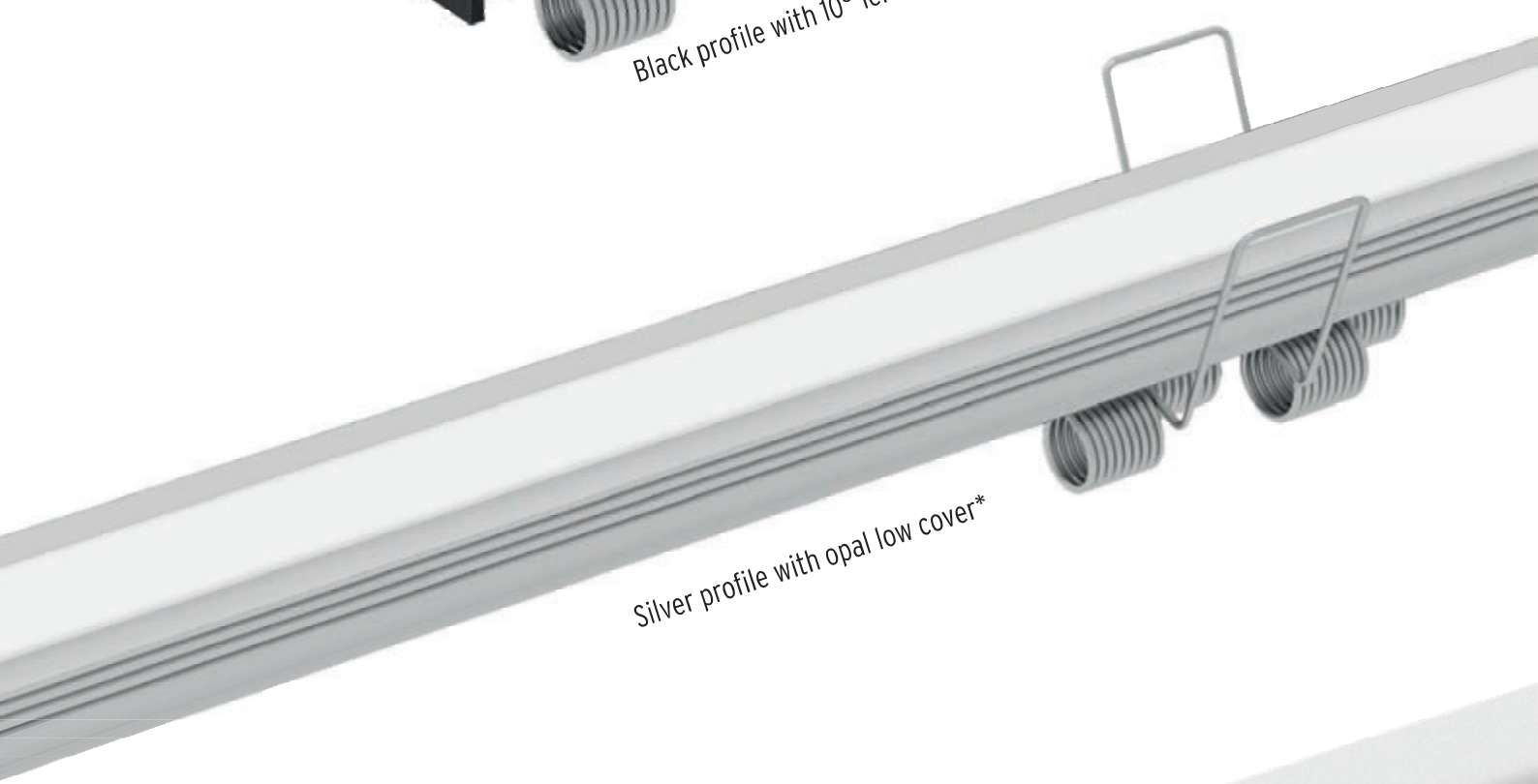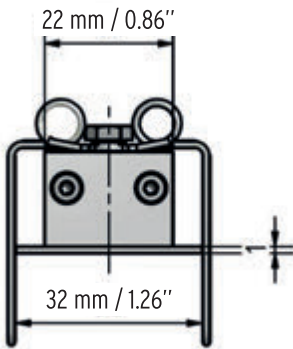
Silver profile with opal low cover*

White profile with opal high cover*

*The shown luminaires are just examples of profile / optic combinations. There are way more possible options.
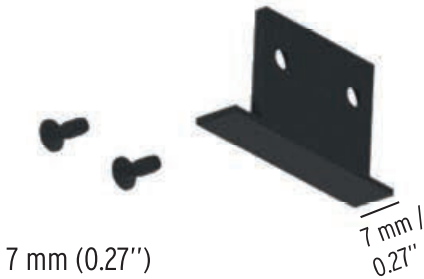
LUNA

Features, benefits and 14.000 variants!

Elegant lighting solution offering easy installation with mounting brackets

22 mm / 0.86''

32 mm / 1.26''

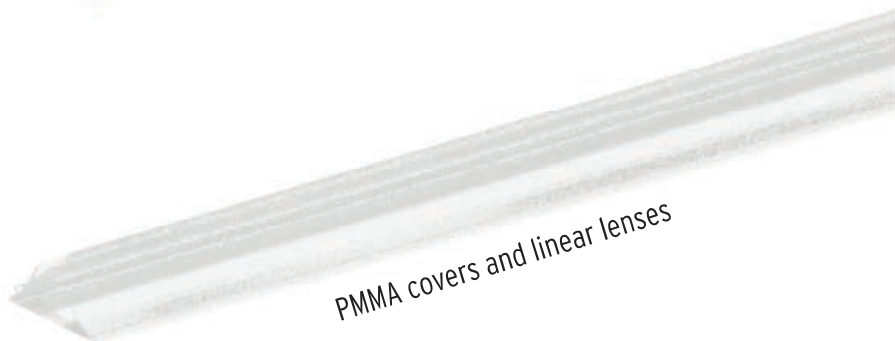Very low installation depth of only 25 mm (0.98'')

3 profile colors and variable lengths of up to 4 m (13.1')

7 mm / 0.27''

7 mm (0.27'') trim

11 efficient white LED tapes with 8 color temperatures, 4 IQ White tapes and 2 RGB tapes

12 optics, suitable for many different applications

Aluminum profile

LED tape - made in Germany

PMMA covers and linear lenses

Linear, modular LED recessed luminaire

Cross section	32 mm (1.26'') x 17,5 mm (0.69'')
Length	up to 4 m (13.1 ft)
Power	3 W/m – 40 W/m
	(0.91 W/ft – 12.2 W/ft)
Luminous flux	450 lm/m – 5,000 lm/m
	(137 lm/ft – 1,524 lm/ft)
Max. efficacy	up to 150 lm/W
Beam angle / optics	10°, 30°, 60°, 80° – 154°
Color temperatures	2,000 – 5,000 K
Colors	White, IQ White, RGB
CRI	85-96

LUNA White

Choose from 11 White LED tapes to match your application

VarioLED™ Flex HYDRA SLD3 – 250 mm (9.84") step length
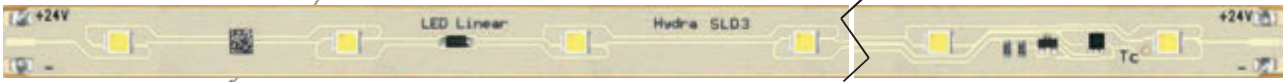
High efficiency with 150 Lumen/W

Low light output without the use of dimming

Max. serial run length of 10 m (32.8')

VarioLED™ Flex HYDRA LD Series – 125 mm (4.92") step length

CRI > 95 available at LD5

Up to 4.130 Lumen/m (1,259 lm/ft)

Ideally suited for the use with linear lenses for precise light control

VarioLED™ Flex HYDRA HD Series – 62.5 mm (2.46") step length

Short LED pitch of only 8.9 mm (0.35")

CRI > 95 (for HD6 and HD10) and up to 5.000 Lumen/m (1,524 lm/ft)

Can be used with opal covers for absolutely homogeneous light

2.200 K ⟵ Tunable CCT ⟶ 4.000 K

LUNA IQ White

Perfect white mixing all along the line

Superior mixing of warm white (2,200 K) and neutral white (4,000 K) to stage your application. Homogeneous color temperature gives you an inimitable new lighting experience. Available are 4 IQ White tapes to match your application in terms of lumen output, step length and color temperatures. Choose between IQ White HYDRA LD25 with a step length of 250 mm (9.84'') or three different IQ White ATON HD versions with a step length of 62.5 mm (2.46'') and either 12, 24 or 42 Watt/m (3.6, 7.3, 12.8 Watt/ft).

Example: LUNA IQ White ATON HD42		Lumen/m (lm/ft) @ clear cover	Color Temperature CCT
W822	🟠	1,720 (524.4)	2,200 K – 4,000 K
W840	🔵	1,870 (570.1)	
Total (W822 + W840)		3,590 (1,094.5)	
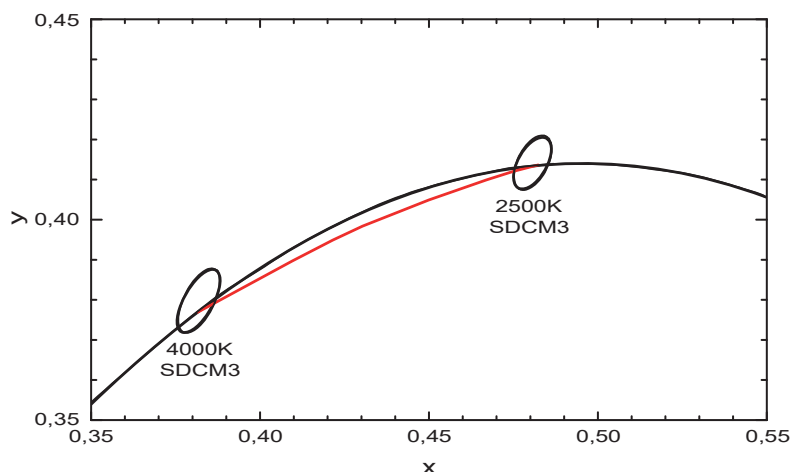
CCT mixing right below the Plankian locus with respect to the atmospheric optical window. This is the most natural and convenient method of mixing color temperatures depending on the daily course of the sun.

We also offer 2 RGB tapes for atmospheric lighting and color accents for every application. Please find further details on page 15.

LUNA

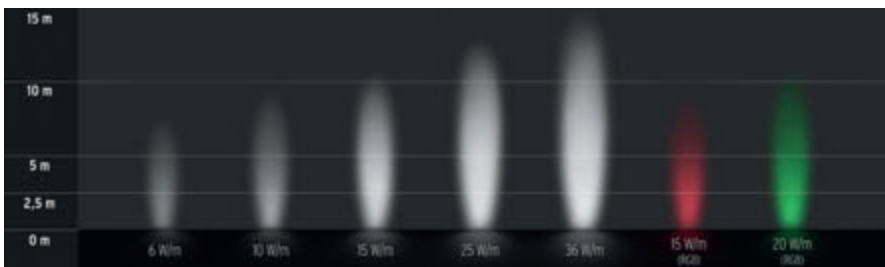## Highly modular lighting system with 12 different optics

3 lenses - Precisely manufactured PMMA optics for light control without large loss in luminous flux

Lens 10°

Linear lens, narrow

• Absolute strictly directional light distribution for precise illumination
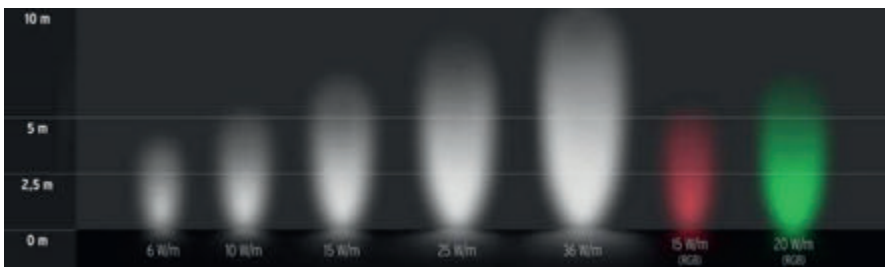• Enormous and exact illumination at very high luminance

Grazing

Lens 30°

Linear lens, medium

• Precise, deep light distribution for accurate illumination of areas
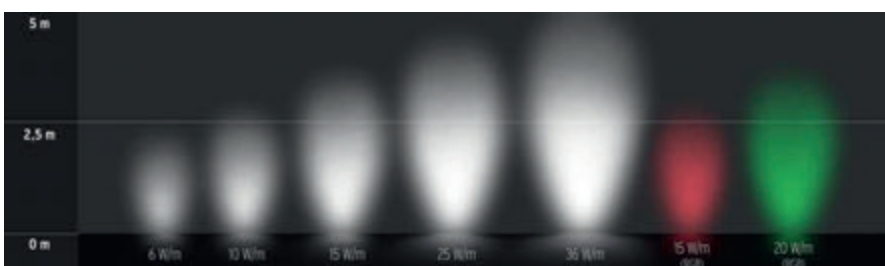• Thorough illumination at high luminance and very directional light

General lighting
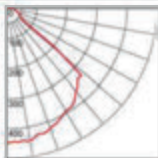**Accent and decorative lighting**

Lens 60°

Linear lens, wide
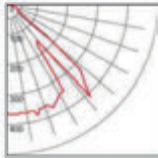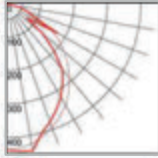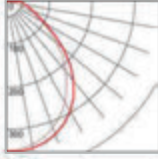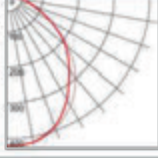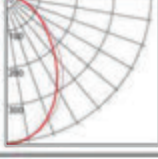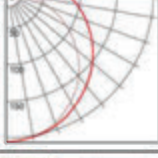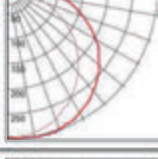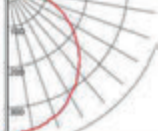
• Wide and deep light distribution for precise and generous illumination of areas
• Pleasant illumination at moderate luminance and directional light

Wall washing
General lighting
Accent and decorative lighting

9 covers – High quality PMMA optics for soft light curves

Round, high or flat covers in opal, diffuse and clear for various types of lighting: general lighting, accent and decorative lighting, contour lighting and cove lighting.

Article image	Pictogram	Light distribution curves	FW HM°Grad	
			120°	Clear cover, round
			100°	Clear cover, high square
			80°	Clear cover, flat
			100°	Diffuse cover, round
			100°	Diffuse cover, high square
			80°	Diffuse cover, flat
			154°	Opal cover, round
			140°	Opal cover, high square
			120°	Opal cover, flat

LUNA
Wall grazing application

Luminaire details:

LUNA HYDRA HD36 W835/1010-B-10D-IP40
- HD36 – Output of 4,235 lm/m
- W835 – 3,500 K

10D – 10° Lens:
- Precise, deep light distribution for accurate illumination of areas
- Thorough illumination at high luminance and very directional light

Application details:

Illuminated area	= 1.4 m²
Diameter	= 1.3 m
$E_{average}$	= 755 lx
E_{min}	= 563 lx
E_{max}	= 1,077 lx
Uniformity U	= 0.75

E_{max} @ different light point heights

> 60°

No luminosity > 60° avoid direct glare

10,0°

4,616 lx @ 1.0 m (3.28')

15 cm (5,9'')

2,051 lx @ 1.5 m (4.92')

1,154 lx @ 2.0 m (6.56')

739 lx @ 2.5 m (8.20')

h = 3.0 m (9.84')

516 lx @ 3.0 m (9.84')

481	485	
491	489	503
496	504	516
493	498	505
485	491	

Lux

w = 2.0 m (6.56')

Height			
1.0 m (3.28')	2,460 lx	4,616 lx	2,484 lx
1.5 m (4.92')	1,471 lx	2,051 lx	1,465
2.0 m (6.56')	921 lx	1,154 lx	918 lx
2.5 m (8.20')	643 lx	739 lx	661 lx
3.0 m (9.84')	503 lx	516 lx	505 lx

h = 3.0 m (9.84')
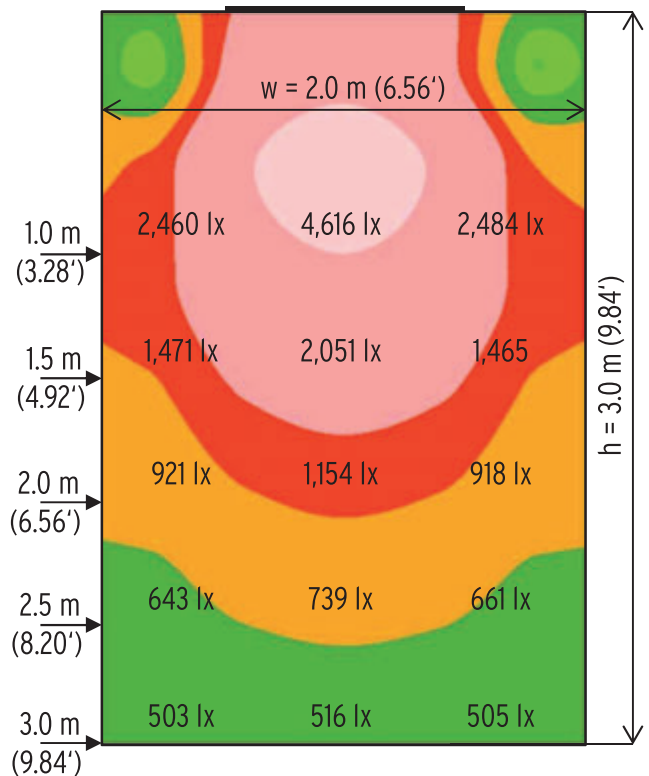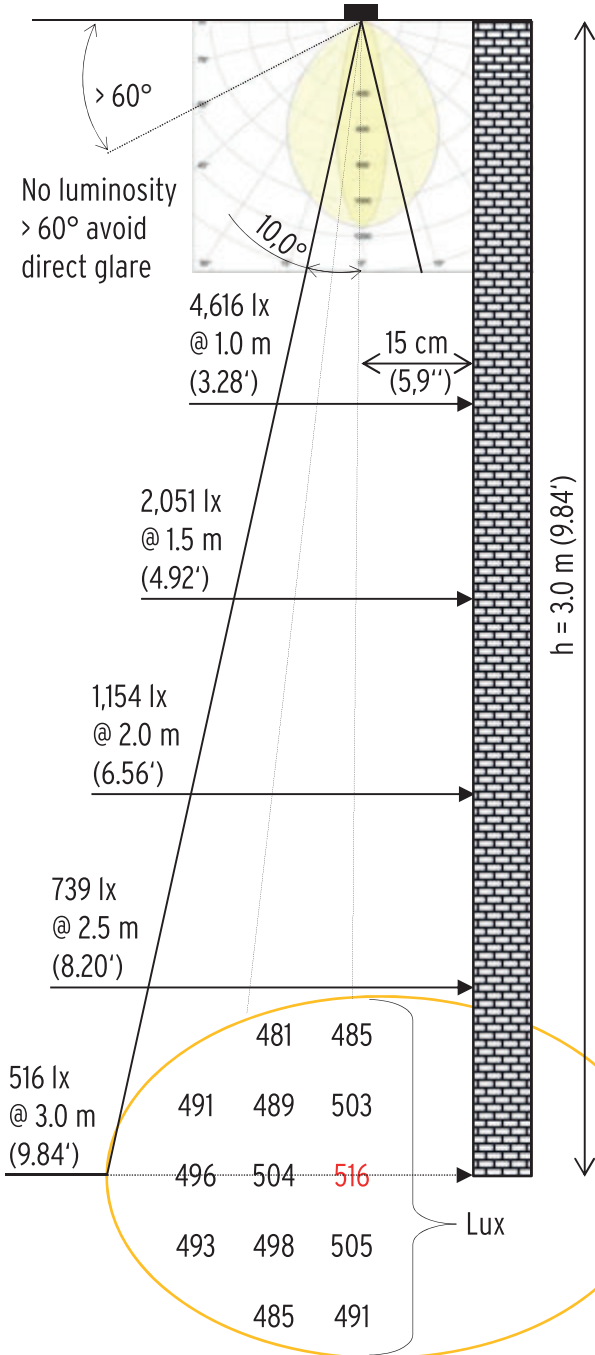
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General lighting application

Luminaire details:

LUNA HYDRA HD36 W835/1010-W-OL-IP40
- HD36 – Output of 2,964 lm/m
- W835 – 3,500 K

OL – Opal low square cover:
- All around symmetric and wide light distribution for very uniform illumination
- Optimal viewing comfort with absolutely homogeneous light
- Opal PMMA design cover

Application details:

Illuminated area	= 24.6 m²
Diameter	= 5.6 m
$E_{average}$	= 97 lx
E_{min}	= 81 lx
E_{max}	= 107 lx
Uniformity U	= 0.84

E_{max} @ different light point heights

> 60°

Low luminosity > 60°
avoid direct glare

43°

936 lx
@ 1.0 m
(3.28')

Absolute homogeneous illumination

Stage your lighting application
with various CCTs & IQ White

428 lx
@ 1.5 m
(4.92')

241 lx
@ 2.0 m
(6.56')

h = 3.0 m (9.84')

154 lx
@ 2.5 m
(8.2')

107 lx
@ 3.0 m
(9.84')

		93	101	102
81	89	98	105	106
82	92	100	105	107
82	87	99	106	105
		94	102	101

Lux

Overview and Order Code

LUNA HYDRA White IP40

	Voltage (V)	CRI	Lumen/W (lm/W)	Watt/m (Watt/ft)	Lumen/m (Lumen/ft)[1]	Max. length m (ft)
LUNA HYDRA SLD3 IP40	24	85	150	3 (0.91)	450 (137)	4 (13.1)
LUNA HYDRA LD5 IP40	24	95	132	5 (1.52)	660 (201)	4 (13.1)
LUNA HYDRA LD10 IP40	24	85	131	10 (3.05)	1,310 (399)	4 (13.1)
LUNA HYDRA LD15 IP40	24	85	140	15 (4.56)	2,100 (640)	4 (13.1)
LUNA HYDRA LD25 IP40	24	85	137	25 (7.62)	3,420 (1,042)	3 (9.8)
LUNA HYDRA LD40 IP40	24	85	103	40 (12.2)	4,130 (1,259)	2 (6.6)
LUNA HYDRA HD6 IP40	24	95	132	6 (1.82)	790 (240)	4 (13.1)
LUNA HYDRA HD10 IP40	24	95	131	10 (3.05)	1,310 (399)	4 (13.1)
LUNA HYDRA HD15 IP40	24	85	140	15 (4.56)	2,100 (640)	4 (13.1)
LUNA HYDRA HD25 IP40	24	85	137	25 (7.62)	3,420 (1,042)	3 (9.8)
LUNA HYDRA HD36 IP40	24	85	139	36 (10.97)	5,000 (1,524)	2 (6.6)

Your order code	LUNA HYDRA	_____	W_	_ _	_ _ _ _	_	_ _	IP__
Order code example	LUNA HYDRA	HD15	W8	25	1010	S	DL	IP40

LED tape
HYDRA SLD3 (SLD3)   HYDRA HD6 (HD6)
HYDRA LD5 (LD5)   HYDRA HD10 (HD10)
HYDRA LD10 (LD10)   HYDRA HD15 (HD15)
HYDRA LD15 (LD15)   HYDRA HD25 (HD25)
HYDRA LD25 (LD25)   HYDRA HD36 (HD36)
HYDRA LD40 (LD40)

Color rendering
> 80 _____ 8
> 90 (only LD5, HD6, HD10) _____ 9

Color temperature
2000 K (20)   2200 K (22)   2500 K (25)
2700 K (27)   3000 K (30)   3500 K (35)
4000 K (40)   5000 K (50)

Length (without trim)
HYDRA SLD3: L = N x 250 + 10 mm; N = 1...16
HYDRA LD: L = N x 125 + 10 mm; N = 1...32
HYDRA HD: L = N x 62.5 + 10 mm; N = 1...64

Profile color
Silver _____ S
Black _____ B
White _____ W

Cover / Lens options (DIN 5040:A60)
No cover/lens (NC)   Opal low square cover (OL)
10° Diffuse (10D)   Diffuse low square cover (DL)
30° Diffuse (30D)   Clear low square cover (CL)
60° Diffuse (60D)   Opal high square cover (OH)
Opal round cover (OR) Diffuse high square cover (DH)
Diffuse round co (DR) Clear high square cover (CH)
Clear round cover (CR)

Ingress protection
IP10 (without optic / cover) _____ IP10
IP40 _____ IP40

LUNA IQ White + RGB IP40

	Voltage (V)	CRI	Lumen/W (lm/W)	Watt/m (Watt/ft)	Lumen/m (Lumen/ft)[1]	Max. length m (ft)
LUNA IQ White HYDRA LD25 IP40	24	85	114	25 (7.6)	2,850 (869)	3 (9.8)
LUNA IQ White ATON HD12 IP40	24	85	82	12 (3.6)	980 (299)	4 (13.1)
LUNA IQ White ATON HD24 IP40	24	85	84	24 (7.3)	2,020 (616)	4 (13.1)
LUNA IQ White ATON HD42 IP40	24	85	85	42 (12.8)	3,590 (1,095)	2 (6.6)
LUNA RGB LD15 IP40	24	-	43	15 (4.6)	638 (195)	4 (13.1)
LUNA RGB HD20 IP40	24	-	48	20 (6.1)	965 (294)	4 (13.1)

Your order code	LUNA	_____	_ _ _ _	_	_ _	IP__
Order code example	LUNA	IQ W ATON HD 12	1 0 1 0	B	D L	IP40

LED tape

IQ White HYDRA LD25	IQ W HYD LD25
IQ White ATON HD12	IQ W ATON HD12
IQ White ATON HD24	IQ W ATON HD24
IQ White ATON HD42	IQ W ATON HD42
RGB LD15	RGB LD15
RGB HD20	RGB HD20

Length (without trim)

IQ White HYDRA LD25: L = (N x 250 mm) + 10 mm; N = 1... 12
IQ White ATON HD: L = (N x 62,5 mm) + 10 mm; N = 1... 64
RGB LD15: L = (N x 125 mm) + 10 mm; N = 1... 32
RGB HD20: L = (N x 62,5 mm) + 10 mm; N = 1... 64

Profile color

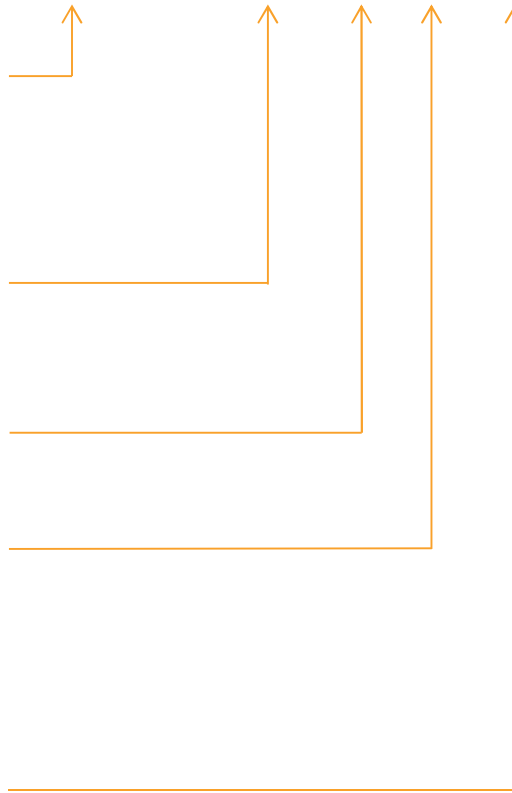|	
Silver	S
Black	B
White	W

Cover / Lens options (DIN 5040:A60)

No cover/lens (NC)	Opal low square cover (OL)
10° Diffuse (10D)	Diffuse low square cover (DL)
30° Diffuse (30D)	Clear low square cover (CL)
60° Diffuse (60D)	Opal high square cover (OH)
Opal round cover (OR)	Diffuse high square cover (DH)
Diffuse round co (DR)	Clear high square cover (CH)
Clear round cover (CR)	

Ingress protection

IP10 (without optic / cover)	IP10
IP40	IP40

Fixtures are supplied with 2 x 0.34 mm² (AWG 22) cable in 2 m (6.6') length and with open cable end.

[1] White
@W850. At warmer light colors the luminous flux is reduced.

[1] IQ White / RGB
When all channels / colors are at full power. Using single channels / colors reduces the luminous flux.

LED Linear™ GmbH
Pascalstraβe 9
47506 Neukirchen-Vluyn
Germany
Phone +49 2845 98462-0
Fax +49 2845 98462-120
Germany@led-linear.com
www.led-linear.com