



MORN

Contrast 2 LED NEW

High light output in a compact and discreet design with a wide choice of light effects created using different light distributions and accessories

- Performance
- Compactness
- Complete flexibility





National Museum of Sèvres Ceramic, Lighting concept: Roger Narboni, CONCEPTO agency, PFI and installation : Bouygues Energy & Services. Photo: © CONCEPTO.

A compact architectural floodlight range combining high output LEDs of predefined beams offering complete flexibility

- Innovative, compact design with integral gear for the Medium and Large sizes (static or dynamic versions). Small versions use remote gear boxes
- Exceptional modularity with LED colours, light distributions, accessories and light outputs in three body sizes
- Manual dimming on monochromatic versions (Medium and Large) and DMX controls on RGB versions for a variety of lighting effects
- All sizes are available with a remote gear box (on request) for countries with temperatures reaching 50°C

Applications

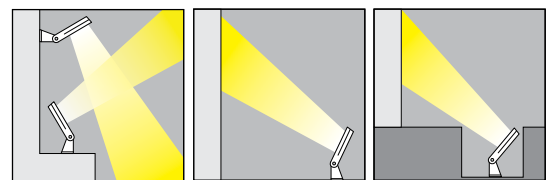
- Illumination and façades

Lamp Information

- Small size: 4 LEDs, Medium size: 12 LEDs, Large size: 36 LEDs
- 40,000 hours @ L70 Ta 25°C or 50°C depending on the version
- From 9 to 18W for the small versions. Up to 62 Llm/W. LED module efficacy: 92 lm/W for 4000K at 1A.
- From 27 to 46W for the medium versions. Up to 54 Llm/W. LED module efficacy: 92 lm/W for 4000K at 1A.
- From 95 to 126W for the large versions. Up to 67 Llm/W. LED module efficacy: 105 lm/W for 4000K at 700mA.
- Colour temperature 3000K and 4000K for all sizes. 6000K only available for the Large version. Other colour temperatures on request
- CRI 80 minimum for the 3000 and 4000K. Typical CRI 70 for the 6000K.

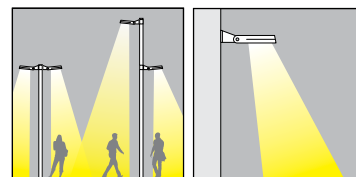
Ways of lighting

Contrast 2 LED can be installed on the ground, in recessed boxes, on walls or on dedicated columns

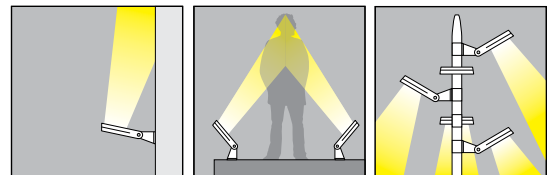


Offset from surface

Offset from ground recessed boxes



Pedestrian application with mast fixation or wall fixation



Wall washing

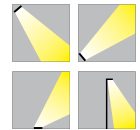
Accentuation

Illumination from a column

Standards



Lamps






Light distributions

A choice of predefined light beams: circular, elliptical or asymmetrical.
 Standard beam angles range from 8° to 50°x50° for the Medium and Large sizes.
 The Small size has angles of 12°, 32° and 44x12°.

Standard versions:
 Small and Medium versions are available in whites (3000K and 4000K), colours (R, G and B) and RGB DMX. Amber, 2700K and 6000K on request.

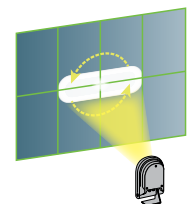
Large version is available in white (3000K, 4000K and 6000K) and RGB DMX versions. Other colours: R, G, B, A and 2700K on request.




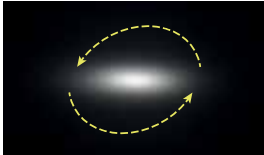
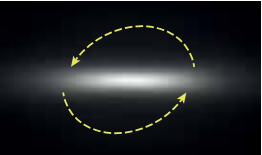




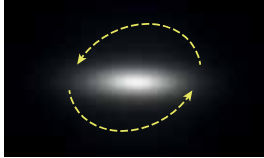
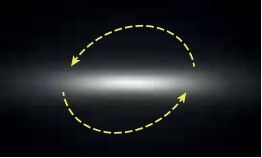




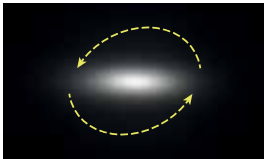
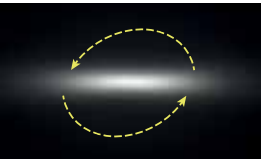

For all sizes, RGBW, RGBA or tunable white are available on request.

Light distribution shape	Beam angles	
	Small	Medium/Large
Circular 	12° 32° -	8° 24° 36°
Elliptical 	44 x 12°	8 x 16°
Asymmetrical 	-	50 x 50° 30° deviation

Light distribution with holographic films

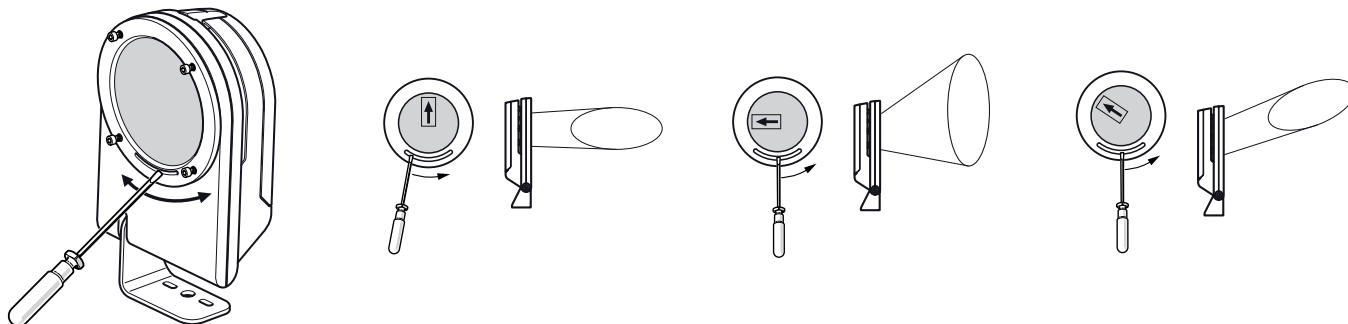
- A choice of light shaping holographic films and accessories to create a range of static or dynamic lighting effects with minimal light loss and glare (see below)
- Holographic films available in 1x60°, 5x30° and 60x60°
- Standard Monochromatic Medium and Large size floodlights have an integral user-adjustable control to vary light output on site
- We recommend using holographic films with circular light beams. It is more effective to install a holographic on an intensive light beam. The wider the light beam the less efficient the flux value and light effect.



					
Small version	12°		12° + 5 x 30° holographic film	12° + 1 x 60° holographic film	12° + 60 x 60° holographic film
					
Medium version	8°		8° + 5 x 30° holographic film	8° + 1 x 60° holographic film	8° + 60 x 60° holographic film
					
Large version	8°		8° + 5 x 30° holographic film	8° + 1 x 60° holographic film	8° + 60 x 60° holographic film

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Holographic film adjustment



Materials/Finish

Body: die-cast painted aluminium EN AC 47100 DF sanded, silver grey 150
Glass: tempered glass, 4mm thick
Gasket: EPDM
Screws: stainless steel
Medium and Large high ambient temperature bodies are pre-wired with 1.5m cable.

Connection boxes for:

1 to 2 Small: die-cast painted aluminium EN AC 44100 KF sanded silver grey 150
Gasket: EPDM
Screws: stainless steel
1 to 4 Small or 1 Small RGB: die-cast painted aluminium EN AB 47100 sanded silver grey 150
Gasket: rubber/neoprene
Screws: stainless steel

Holographic films

Frame: die-cast painted aluminium EN AC 44100 KF sanded silver grey 150
Film: PC sheet (2mm) plus PC holographic film (0,27mm)

Installation/Mounting

Floodlight is fully adjustable on a stirrup. Stirrup fixed to mount by central bolt through $\varnothing 15\text{mm}$ hole and 2 x $\varnothing 8\text{mm}$ holes for the Medium and Large sizes.

Small versions fixed via central bolt hole $\varnothing 15\text{mm}$ and 1 x $\varnothing 8\text{mm}$ hole.

Aiming simplified by indicator on stirrup, locked via central $\varnothing 6\text{mm}$ Allen screw for all sizes.

Easy installation of a maximum of 2 accessories: holographic films plus visor or holographic films plus glare shield for Medium and Large sizes. Holographic films plus visor for the Small. No glare shield for the Small version.

Medium and Large

Easy access to power supply on the product rear for monochromatic Medium and Large sizes and manual potentiometer adjustment. Entry via 3 Allen screws.

Easy access to power supply and DMX card on the product rear for RGB DMX Medium and Large sizes. Entry via 3 Allen screws.

Medium monochromatic: 2 cable glands for through wiring.
Medium RGB DMX: 3 cable glands. 2 for DMX IN/OUT and one for mains to enter.

Large monochromatic: 2 cable glands for through wiring.
Large RGB DMX: 4 cable glands. 2 for DMX IN/OUT and 2 for mains IN/OUT.

Small

Remote gear box for the monochromatic and RGB DMX Small versions. Entry via 4 Allen screws on the gear box for up to 2 Small floodlights and via 6 screws on the gear box for up to 4 Small floodlights.

Small monochromatic: Pre-wired with H07RNF cable, 1.5m long.
Small RGB DMX: Pre-wired with H07RNF cable, 1.5m long .

Gear box for 2 Small monochromatic: 4 cable glands including through wiring.

Gear box for 4 Small monochromatic: 6 cable glands including through wiring.

Gear box for 1 Small RGB DMX: 5 cable glands for through wiring mains and DMX.

Cable glands for $\varnothing 8\text{-}13\text{mm}$ cable.

Attachments and ground recessed boxes available.

No LED module replacement.

Specification

To specify state:

A range of compact floodlights in 3 sizes, offering high light outputs with a wide choice of light distributions, LED colours and accessories to cover all applications. Manual dimming on Medium and Large monochromatic versions adjustable on site. Dynamic RGB DMX versions for all sizes. As Thorn Contrast 2 LED.

Standards

EN 60598 T_a-20 T_a-20 +50 IP66 IK08



Lamps



Twilight temperature of use and locations 0 - 95% humidity

Standard			
	White	Colour	RGB
Small	1A Body: + 50°C Gear boxes 1-2: + 35°C Gear boxes 1-4: + 25°C Indoor/Outdoor	700mA Body: + 50°C Gear boxes 1-2: + 35°C Gear boxes 1-4: + 25°C Indoor/Outdoor	700mA Body: + 50°C Gear boxes 1-4: + 35°C Indoor/Outdoor
Medium	1A + 25°C Indoor/Outdoor	700mA + 25°C Indoor/Outdoor	700mA + 25°C Indoor/Outdoor
Large	1A + 25°C Outdoor	700mA + 25°C Indoor/Outdoor	700mA + 25°C Indoor/Outdoor

High ambient temperature country Remote gear box Indoor and Outdoor use			
	White	Colour	RGB
Small	1A Body: + 50°C Gear boxes 1-2: + 35°C Gear boxes 1-4: + 25°C Indoor/Outdoor	700mA Body: + 50°C Gear boxes 1-2: + 35°C Gear boxes 1-4: + 25°C Indoor/Outdoor	700mA Body: + 50°C Gear boxes 1-4: + 35°C Indoor/Outdoor
Medium	1A Body: + 50°C Gear boxes: + 35°C Indoor/Outdoor	700mA Body: + 50°C Gear boxes: + 35°C Indoor/Outdoor	700mA Body: + 50°C Gear boxes: + 35°C Indoor/Outdoor
Large	700mA Body: + 50°C Gear boxes: + 35°C Indoor/Outdoor	700mA Body: + 50°C Gear boxes: + 35°C Indoor/Outdoor	700mA Body: + 50°C Gear boxes: + 25°C Indoor/Outdoor

Maximum distance from the Contrast 2 body to connection box

Standard							
	Monochromatic						DMX RGB
	Connection box for up to 2 Small		Connection box for up to 4 Small				
Small	1 x Small	2 x Small	1 x Small	2 x Small	3 x Small	4 x Small	1 x Small
	105m	10m	105m	both at 105m	2 at 10m and 1 at 105m	4 at 10m	10m

High ambient temperature country							
	Monochromatic						DMX RGB
	Connection box for up to 2 Small		Connection box for up to 4 Small				
Small	1 x Small	2 x Small	1 x Small	2 x Small	3 x Small	4 x Small	1 x Small
	105m	10m	105m	both at 105m	2 at 10m and 1 at 105m	4 at 10m	10m
Medium	100m						12m
Large	100m						18m

Flux data

Size	Light distribution		Static						Dynamic
			Simple dimming						Scenario
			Monochromatic			Whites			Tricolour
			R	G	B	3000K	4000K	6000K	RGB
Small Standard and High ambient temperature version	12°	Lumens	270	478	156	799	859	-	346
		Total Power	9W	12W	12W	14W	14W	-	18W
	32°	Lumens	235	417	136	696	748	-	302
		Total Power	9W	12W	12W	14W	14W	-	18W
	44x12°	Lumens	256	454	148	760	816	-	330
		Total Power	9W	12W	12W	14W	14W	-	18W
Medium Standard and High ambient temperature version	8°	Lumens	740	1310	429	2271	2467	2978	826
		Total Power	27W	35W	35W	46W	46W	46W	42W
	24°	Lumens	682	1207	395	2069	2254	2720	761
		Total Power	27W	35W	35W	46W	46W	46W	42W
	36°	Lumens	694	1227	402	2106	2290	2808	765
		Total Power	27W	35W	35W	46W	46W	46W	42W
	8x16°	Lumens	726	1284	420	2210	2402	2898	810
		Total Power	27W	35W	35W	46W	46W	46W	42W
	50x50°	Lumens	675	1194	391	2032	2222	2682	-
		Total Power	27W	35W	35W	46W	46W	46W	-
Large Standard	8°	Lumens	2086	3691	1208	6384	6978	8422	2328
		Total Power	76W	95W	95W	126W	126W	126W	95W
	24°	Lumens	1873	3314	1085	5555	6200	7263	2091
		Total Power	76W	95W	95W	126W	126W	126W	95W
	36°	Lumens	1918	3394	1111	5794	6333	7644	1983
		Total Power	76W	95W	95W	126W	126W	126W	95W
	8x16°	Lumens	2014	3564	1166	5906	6456	7792	2248
		Total Power	76W	95W	95W	126W	126W	126W	95W
	50x50°	Lumens	1932	3418	1118	5622	6144	7416	2156
		Total Power	76W	95W	95W	126W	126W	126W	95W
Large High ambient temperature versions	8°	Lumens	2086	3691	1208	4723	5082	6133	2328
		Total Power	76W	95W	95W	84W	84W	84W	95W
	24°	Lumens	1873	3314	1085	4260	4563	5517	2091
		Total Power	76W	95W	95W	84W	84W	84W	95W
	36°	Lumens	1918	3394	1111	4343	4673	5640	1983
		Total Power	76W	95W	95W	84W	84W	84W	95W
	8x16°	Lumens	2014	3564	1166	4560	4906	5922	2248
		Total Power	76W	95W	95W	84W	84W	84W	95W
	50x50°	Lumens	1932	3418	1118	4374	4706	5680	2156
		Total Power	76W	95W	95W	84W	84W	84W	95W

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Ordering Guide - Standard versions

Small

Delivered without gear box.

For monochromatic versions, two gear box options are provided: one for up to 2 small units and one for up to 4 small units.

The white versions are driven by 1A and the coloured monochromatic versions are driven by 0.7A. **Please select the correct connection box version when ordering.**

For RGB DMX versions, you need to order the power supply/DMX gear box SAP code 96261426.

Medium and Large

Delivered complete with power supply for monochromatic versions and power supply/DMX card for the RGB DMX versions. Other RGBW, RGBA and tunable white versions available on request. DALI versions on request. Other RAL on request. Other light distributions on request.

High ambient temperature versions:

With this option, all products are with remote gear box. No manual dimming with potentiometer for high ambient temperature versions with remote gear. Can be used at 50°C with the remote gear box at 35°C. For the white versions, same flux output for the medium versions compared to standard versions and less flux output for the large versions. For the LED colours other than white, same flux for the standard and high ambient temperature versions.

Small - Indoor and Outdoor use

Total angle opening	Description	Wt (kg)	SAP Code	Cat. No.
Monochromatic				
Bodies				
12°	CONTRAST 2 LED S 4L105 R/S 12° 830 NG	1.1	96261327	CT2S3K12
	CONTRAST 2 LED S 4L105 R/S 12° 840 NG	1.1	96263247	CT2S4K12
	CONTRAST 2 LED S 4L70 R/S 12° RD NG	1.1	96263250	CT2SR12
	CONTRAST 2 LED S 4L70 R/S 12° GN NG	1.1	96263253	CT2SG12
	CONTRAST 2 LED S 4L70 R/S 12° BU NG	1.1	96263256	CT2SB12
32°	CONTRAST 2 LED S 4L105 R/S 32° 830 NG	1.1	96261329	CT2S3K32
	CONTRAST 2 LED S 4L105 R/S 32° 840 NG	1.1	96263248	CT2S4K32
	CONTRAST 2 LED S 4L70 R/S 32° RD NG	1.1	96263251	CT2SR32
	CONTRAST 2 LED S 4L70 R/S 32° GN NG	1.1	96263254	CT2SG32
	CONTRAST 2 LED S 4L70 R/S 32° BU NG	1.1	96263257	CT2SB32
44X12°	CONTRAST 2 LED S 4L105 S/S 44x12° 830 NG	1.1	96261330	CT2S3K4412
	CONTRAST 2 LED S 4L105 S/S 44x12° 840 NG	1.1	96263249	CT2S4K4412
	CONTRAST 2 LED S 4L70 S/S 44x12° RD NG	1.1	96263252	CT2SR4412
	CONTRAST 2 LED S 4L70 S/S 44x12° GN NG	1.1	96263255	CT2SG4412
	CONTRAST 2 LED S 4L70 S/S 44x12° BU NG	1.1	96263258	CT2SB4412

Connection boxes

CONTRAST 2 LED S 2X4L70 CBOX MONO	1.7	96261898	CT2S27CBX
CONTRAST 2 LED S 4X4L70 CBOX MONO	1.2	96261899	CT2S47CBX
CONTRAST 2 LED S 2X4L105 CBOX WHITE	1.7	96261425	CT2S21CBX
CONTRAST 2 LED S 4X4L105 CBOX WHITE	1.2	96261427	CT2S41CBX

RGB

Bodies				
12°	CONTRAST 2 LED S 4L70 R/S 12° RGB NG	1.1	96261328	CT2S12
32°	CONTRAST 2 LED S 4L70 R/S 32° RGB NG	1.1	96263259	CT2S32
44X12°	CONTRAST 2 LED S 4L70 S/S 44X12° RGB NG	1.1	96263260	CT2S4412

Connection boxes

CONTRAST 2 LED S CBOX RGB DMX	1.2	96261426	CT2SXCBX
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Accessories

CONTRAST 2 LED S VISOR	0.064	96261859	CT2SV
CONTRAST 2 LED S LR 60X60°	0.117	96261860	CT2S6060
CONTRAST 2 LED S LR 1X60°	0.117	96261861	CT2S160
CONTRAST 2 LED S LR 5X30°	0.117	96261862	CT2S560

Ground recessed boxes - For standard and high ambient temperature versions

Description	Wt (kg)	SAP Code	Cat. No.
Ground recessed boxes			
CONTRAST 2 L FB GL 672X550X500	40.0	96264512	CT2GRBL
CONTRAST 2 M FB GL 430X430X490	25.4	96264513	CT2GRBM
CONTRAST 2 S FB GL 330X330X330	13.2	96264514	CT2GRBS

Contrast 2 LED S	Small version	GN	Green
Contrast 2 LED M	Medium version	840	CRI 80 and 4000K
Contrast 2 LED L	Large version	830	CRI 80 and 3000K
NG	No Gear	860	CRI 80 and 6000K
GL	Glass	RGB	Colour changing versions driven with DMX
FB	In ground box	R/S 8°	Circular light beam 8°x8°
BU	Blue	S/S 8x16°	Ellipsoidal light beam
RD	Red	A/S	Asymmetrical light beam

Medium - Indoor and Outdoor use

Total angle opening	Description	Wt (kg)	SAP Code	Cat. No.
Monochromatic				
Floodlights				
8°	CONTRAST 2 LED M 12L105 R/S 8° 830	4.3	96261331	CT2M3K458
	CONTRAST 2 LED M 12L105 R/S 8° 840	4.3	96263223	CT2M4K458
	CONTRAST 2 LED M 12L70 R/S 8° RD	4.3	96263228	CT2MR258
	CONTRAST 2 LED M 12L70 R/S 8° GN	4.3	96263233	CT2MG358
	CONTRAST 2 LED M 12L70 R/S 8° BU	4.3	96263238	CT2MB358
24°	CONTRAST 2 LED M 12L105 R/S 24° 830	4.3	96261333	CT2M3K4524
	CONTRAST 2 LED M 12L105 R/S 24° 840	4.3	96263224	CT2M4K4524
	CONTRAST 2 LED M 12L70 R/S 24° RD	4.3	96263229	CT2MR2524
	CONTRAST 2 LED M 12L70 R/S 24° GN	4.3	96263234	CT2MG3524
	CONTRAST 2 LED M 12L70 R/S 24° BU	4.3	96263239	CT2MB3524
36°	CONTRAST 2 LED M 12L105 R/S 36° 830	4.3	96261334	CT2M3K4536
	CONTRAST 2 LED M 12L105 R/S 36° 840	4.3	96263225	CT2M4K4536
	CONTRAST 2 LED M 12L70 R/S 36° RD	4.3	96263230	CT2MR2536
	CONTRAST 2 LED M 12L70 R/S 36° GN	4.3	96263235	CT2MG3536
	CONTRAST 2 LED M 12L70 R/S 36° BU	4.3	96263240	CT2MB3536
8X16°	CONTRAST 2 LED M 12L105 S/S 8X16° 830	4.3	96261335	CT2M3K45816
	CONTRAST 2 LED M 12L105 S/S 8X16° 840	4.3	96263226	CT2M4K45816
	CONTRAST 2 LED M 12L70 S/S 8X16° RD	4.3	96263231	CT2MR25816
	CONTRAST 2 LED M 12L70 S/S 8X16° GN	4.3	96263236	CT2MG35816
	CONTRAST 2 LED M 12L70 S/S 8X16° BU	4.3	96263241	CT2MB35816
50X50° deviation of 30°	CONTRAST 2 LED M 12L105 A/S 830	4.3	96261336	CT2M3K455050
	CONTRAST 2 LED M 12L105 A/S 840	4.3	96263227	CT2M4K455050
	CONTRAST 2 LED M 12L70 A/S RD	4.3	96263232	CT2MR255050
	CONTRAST 2 LED M 12L70 A/S GN	4.3	96263237	CT2MG355050
	CONTRAST 2 LED M 12L70 A/S BU	4.3	96263242	CT2MB355050

RGB

Floodlights				
8°	CONTRAST 2 LED M 12L70 R/S 8° RGB DMX	4.5	96261332	CT2M408
24°	CONTRAST 2 LED M 12L70 R/S 24° RGB DMX	4.5	96263243	CT2M4024
36°	CONTRAST 2 LED M 12L70 R/S 36° RGB DMX	4.5	96263244	CT2M4036
8X16°	CONTRAST 2 LED M 12L70 S/S 8X16° RGB DMX	4.5	96263245	CT2M40816
50X50° deviation 30°	CONTRAST 2 LED M 12L70 A/S RGB DMX	4.5	96263246	CT2M405050

Accessories

CONTRAST 2 LED M VISOR	0.212	96261854	CT2MV
CONTRAST 2 LED M LV	0.078	96261855	CT2MLV
CONTRAST 2 LED M LR 60X60°	0.26	96261856	CT2M6060
CONTRAST 2 LED M LR 1X60°	0.26	96261857	CT2M160
CONTRAST 2 LED M LR 5X30°	0.26	96261858	CT2M530

Large - Indoor and Outdoor use for the RGB versions. Only outdoor use for the white versions.

Monochromatic

Floodlights				
8°	CONTRAST 2 LED L 36L105 R/S 8° 830	7.5	96261337	CT2L3K1258
	CONTRAST 2 LED L 36L105 R/S 8° 840	7.5	96261919	CT2L4K1258
	CONTRAST 2 LED L 36L105 R/S 8° 860	7.5	96263207	CT2L6K1258
24°	CONTRAST 2 LED L 36L105 R/S 24° 830	7.5	96261339	CT2L3K12524
	CONTRAST 2 LED L 36L105 R/S 24° 840	7.5	96263203	CT2L4K12524
	CONTRAST 2 LED L 36L105 R/S 24° 860	7.5	96263208	CT2L6K12524
36°	CONTRAST 2 LED L 36L105 R/S 36° 830	7.5	96261340	CT2L3K12536
	CONTRAST 2 LED L 36L105 R/S 36° 840	7.5	96263204	CT2L4K12536
	CONTRAST 2 LED L 36L105 R/S 36° 860	7.5	96263209	CT2L6K12536
8X16°	CONTRAST 2 LED L 36L105 S/S 8X16° 830	7.5	96261341	CT2L3K125816
	CONTRAST 2 LED L 36L105 S/S 8X16° 840	7.5	96263205	CT2L4K125816
	CONTRAST 2 LED L 36L105 S/S 8X16° 860	7.5	96263210	CT2L6K125816
50X50° deviation of 30°	CONTRAST 2 LED L 36L105 A/S 830	7.5	96261342	CT2L3K1255050
	CONTRAST 2 LED L 36L105 A/S 840	7.5	96263206	CT2L4K1255050
	CONTRAST 2 LED L 36L105 A/S 860	7.5	96263211	CT2L6K1255050

RGB

Floodlights				
8°	CONTRAST 2 LED L 36L70 R/S 8° RGB DMX	7.3	96261338	CT2L958
24°	CONTRAST 2 LED L 36L70 R/S 24° RGB DMX	7.3	96263212	CT2L9524
36°	CONTRAST 2 LED L 36L70 R/S 36° RGB DMX	7.3	96263213	CT2L9536
8X16°	CONTRAST 2 LED L 36L70 S/S 8X16° RGB DMX	7.3	96263214	CT2L95816
50X50° deviation 30°	CONTRAST 2 LED L 36L70 A/S RGB DMX	7.3	96263215	CT2L955050

Accessories

CONTRAST 2 LED L VISOR	0.433	96261849	CT2LV
CONTRAST 2 LED L LV	0.167	96261850	CT2LLV
CONTRAST 2 LED L LR 60X60°	0.49	96261851	CT2L6060
CONTRAST 2 LED L LR 1X60°	0.49	96261852	CT2L160
CONTRAST 2 LED L LR 5X30°	0.49	96261853	CT2L530

12L70 CBOX MONO	12 LEDs driven at 700mA Connection box for Small monochromatic LED colours except whites	CBOX WHITE	Connection box for Small white versions
		LV Louvre	
		LR Adjustable refractor	holographic film

Data is subject to change due to the continuous progress of LED characteristics. To check the effect on the luminaire, please contact us or visit our website.

Standards

EN 60598 T_a-20 +25 T_a-20 +50 IP66 IK08



Lamps



Ordering Guide - High ambient temperature versions

Small

Delivered without gear box.

For monochromatic versions, two gear box options are provided: one for up to 2 small units and one for up to 4 small units.

The white versions are driven by 1A and the coloured monochromatic versions are driven by 0.7A. **Please select the correct connection box version when ordering.**

For RGB DMX versions, you need to order the power supply/DMX gear box SAP code 96261426.

Medium and large

Bodies delivered complete pre-wired with 1.5m cable.

Small - Indoor and Outdoor use

Total angle opening	Description	Wt (kg)	SAP Code	Cat. No.
Monochromatic				
Bodies				
12°	CONTRAST 2 LED S 4L105 R/S 12° 830 NG	1.1	96261327	CT2S3K12
	CONTRAST 2 LED S 4L105 R/S 12° 840 NG	1.1	96263247	CT2S4K12
	CONTRAST 2 LED S 4L70 R/S 12° RD NG	1.1	96263250	CT2SR12
	CONTRAST 2 LED S 4L70 R/S 12° GN NG	1.1	96263253	CT2SG12
	CONTRAST 2 LED S 4L70 R/S 12° BU NG	1.1	96263256	CT2SB12
	32°	CONTRAST 2 LED S 4L105 R/S 32° 830 NG	1.1	96261329
CONTRAST 2 LED S 4L105 R/S 32° 840 NG		1.1	96263248	CT2S4K32
CONTRAST 2 LED S 4L70 R/S 32° RD NG		1.1	96263251	CT2SR32
CONTRAST 2 LED S 4L70 R/S 32° GN NG		1.1	96263254	CT2SG32
CONTRAST 2 LED S 4L70 R/S 32° BU NG		1.1	96263257	CT2SB32
44X12°		CONTRAST 2 LED S 4L105 S/S 44x12° 830 NG	1.1	96261330
	CONTRAST 2 LED S 4L105 S/S 44x12° 840 NG	1.1	96263249	CT2S4K4412
	CONTRAST 2 LED S 4L70 S/S 44x12° RD NG	1.1	96263252	CT2SR4412
	CONTRAST 2 LED S 4L70 S/S 44x12° GN NG	1.1	96263255	CT2SG4412
CONTRAST 2 LED S 4L70 S/S 44x12° BU NG	1.1	96263258	CT2SB4412	
Connection boxes				
	CONTRAST 2 LED S 2X4L70 CBOX MONO	1.7	96261898	CT2S27CBX
	CONTRAST 2 LED S 4X4L70 CBOX MONO	1.2	96261899	CT2S47CBX
	CONTRAST 2 LED S 2X4L105 CBOX WHITE	1.7	96261425	CT2S21CBX
	CONTRAST 2 LED S 4X4L105 CBOX WHITE	1.2	96261427	CT2S41CBX
RGB				
Bodies				
12°	CONTRAST 2 LED S 4L70 R/S 12° RGB NG	1.1	96261328	CT2S12
32°	CONTRAST 2 LED S 4L70 R/S 32° RGB NG	1.1	96263259	CT2S32
44X12°	CONTRAST 2 LED S 4L70 S/S 44X12° RGB NG	1.1	96263260	CT2S4412
Connection boxes				
	CONTRAST 2 LED S CBOX RGB DMX	1.2	96261426	CT2SXCXB
Accessories				
	CONTRAST 2 LED S VISOR	0.064	96261859	CT2SV
	CONTRAST 2 LED S LR 60X60°	0.117	96261860	CT2S6060
	CONTRAST 2 LED S LR 1X60°	0.117	96261861	CT2S160
	CONTRAST 2 LED S LR 5X30°	0.117	96261862	CT2S560

Ground recessed boxes - For standard and high ambient temperature versions

Description	Wt (kg)	SAP Code	Cat. No.
Ground recessed boxes			
CONTRAST 2 L FB GL 672X550X500	40.0	96264512	CT2GRBL
CONTRAST 2 M FB GL 430X430X490	25.4	96264513	CT2GRBM
CONTRAST 2 S FB GL 330X330X330	13.2	96264514	CT2GRBS

Medium - Indoor and Outdoor use

Total angle opening	Description	Wt (kg)	SAP Code	Cat. No.
Monochromatic				
Floodlights				
8°	CONTRAST 2 LED M 12L105 R/S 8° 830 KIT	4.2	96261821	CT2M3K8
24°	CONTRAST 2 LED M 12L105 R/S 24° 830 KIT	4.2	96261822	CT2M3K24
36°	CONTRAST 2 LED M 12L105 R/S 36° 830 KIT	4.2	96261823	CT2M3K36
8X16°	CONTRAST 2 LED M 12L105 8X16° 830 KIT	4.2	96261824	CT2M3K816
50X50° deviation 30°	CONTRAST 2 LED M 12L105 A/S 830 KIT	4.2	96261825	CT2M3K5050
RGB				
Floodlights				
8°	CONTRAST 2 LED M 12L70 R/S 8° RGB KIT	4.2	96261864	CT2M8
24°	CONTRAST 2 LED M 12L70 R/S 24° RGB KIT	4.2	96263219	CT2M24
36°	CONTRAST 2 LED M 12L70 R/S 36° RGB KIT	4.2	96263220	CT2M36
8X16°	CONTRAST 2 LED M 12L70 S/S 8X16° RGB KIT	4.2	96263221	CT2M816
50X50° deviation 30°	CONTRAST 2 LED M 12L70 A/S RGB KIT	4.2	96263222	CT2M5050
Accessories				
	CONTRAST 2 LED M VISOR	0.212	96261854	CT2MV
	CONTRAST 2 LED M LV	0.078	96261855	CT2MLV
	CONTRAST 2 LED M LR 60X60°	0.26	96261856	CT2M6060
	CONTRAST 2 LED M LR 1X60°	0.26	96261857	CT2M160
	CONTRAST 2 LED M LR 5X30°	0.26	96261858	CT2M530
Large - Indoor and Outdoor use				
Total angle opening	Description	Wt (kg)	SAP Code	Cat. No.
Monochromatic				
Floodlights				
8°	CONTRAST 2 LED L 36L70 R/S 8° 830 KIT	5.8	96261826	CT2L3K8
24°	CONTRAST 2 LED L 36L70 R/S 24° 830 KIT	5.8	96261827	CT2L3K24
36°	CONTRAST 2 LED L 36L70 R/S 36° 830 KIT	5.8	96261828	CT2L3K36
8X16°	CONTRAST 2 LED L 36L70 S/S 8X16° 830 KIT	5.8	96261829	CT2L3K816
50X50° deviation 30°	CONTRAST 2 LED L 36L70 A/S 830 KIT	5.8	96261830	CT2L3K5050
RGB				
Floodlights				
8°	CONTRAST 2 LED L 36L70 R/S 8° RGB KIT	5.8	96261846	CT2L8
24°	CONTRAST 2 LED L 36L70 R/S 24° RGB KIT	5.8	96263199	CT2L24
36°	CONTRAST 2 LED L 36L70 R/S 36° RGB KIT	5.8	96263200	CT2L36
8X16°	CONTRAST 2 LED L 36L70 S/S 8X16° RGB KIT	5.8	96263201	CT2L816
50X50° deviation 30°	CONTRAST 2 LED L 36L70 A/S RGB KIT	5.8	96263202	CT2L5050
Accessories				
	CONTRAST 2 LED L VISOR	0.433	96261849	CT2LV
	CONTRAST 2 LED L LV	0.167	96261850	CT2LLV
	CONTRAST 2 LED L LR 60X60°	0.49	96261851	CT2L6060
	CONTRAST 2 LED L LR 1X60°	0.49	96261852	CT2L160
	CONTRAST 2 LED L LR 5X30°	0.49	96261853	CT2L530

Contrast 2 LED S Small version
 Contrast 2 LED M Medium version
 Contrast 2 LED L Large version
 NG No Gear
 GL Glass
 FB In ground box
 BU Blue
 RD Red
 GN Green
 840 CRI 80 and 4000K
 830 CRI 80 and 3000K
 860 CRI 80 and 6000K
 RGB Colour changing versions driven with DMX
 R/S 8° Circular light beam 8° x8°
 S/S 8x16° Ellipsoidal light beam
 A/S Asymmetrical light beam
 12L70 2LEDs driven at 700mA
 CBOX MONO Connection box for Small monochromatic LED colours except whites
 CBOX WHITE Connection box for Small white versions
 LV Louvre
 LR Adjustable refractor holographic film
 KIT High ambient temperature versions

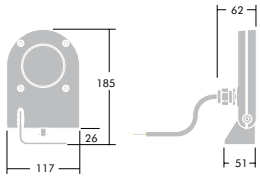
Data is subject to change due to the continuous progress of LED characteristics. To check the effect on the luminaire, please contact us or visit our website.



Contrast 2 LED NEW

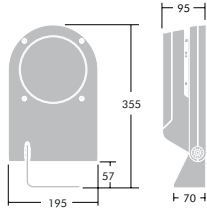
Small versions

Standard and high ambient temperatures



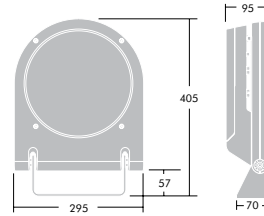
Medium versions

Standard

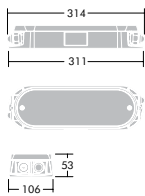


Large versions

Standard

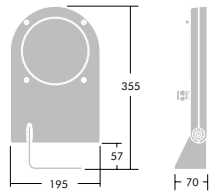


Power supply boxes



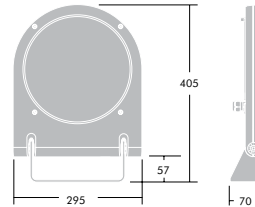
Monochromatic for 1 to 2 Small

High ambient temperature

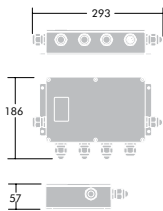


Power supply boxes

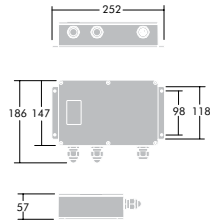
High ambient temperature



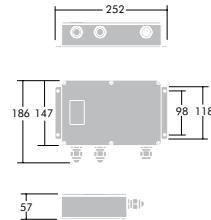
Power supply boxes



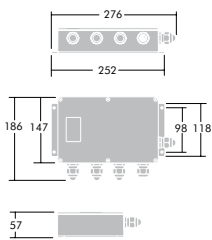
Monochromatic for 1 to 4 Small



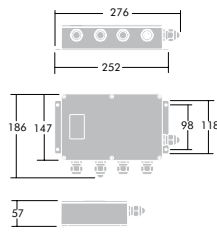
Monochromatic



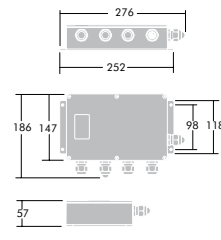
Monochromatic



RGB

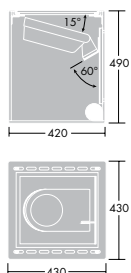
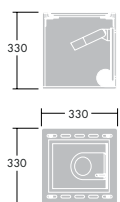


RGB



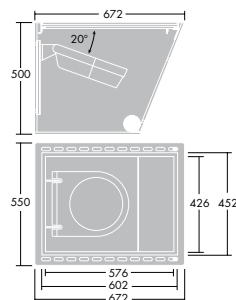
RGB DMX

Recessed boxes



Recessed boxes

Recessed boxes



Standards

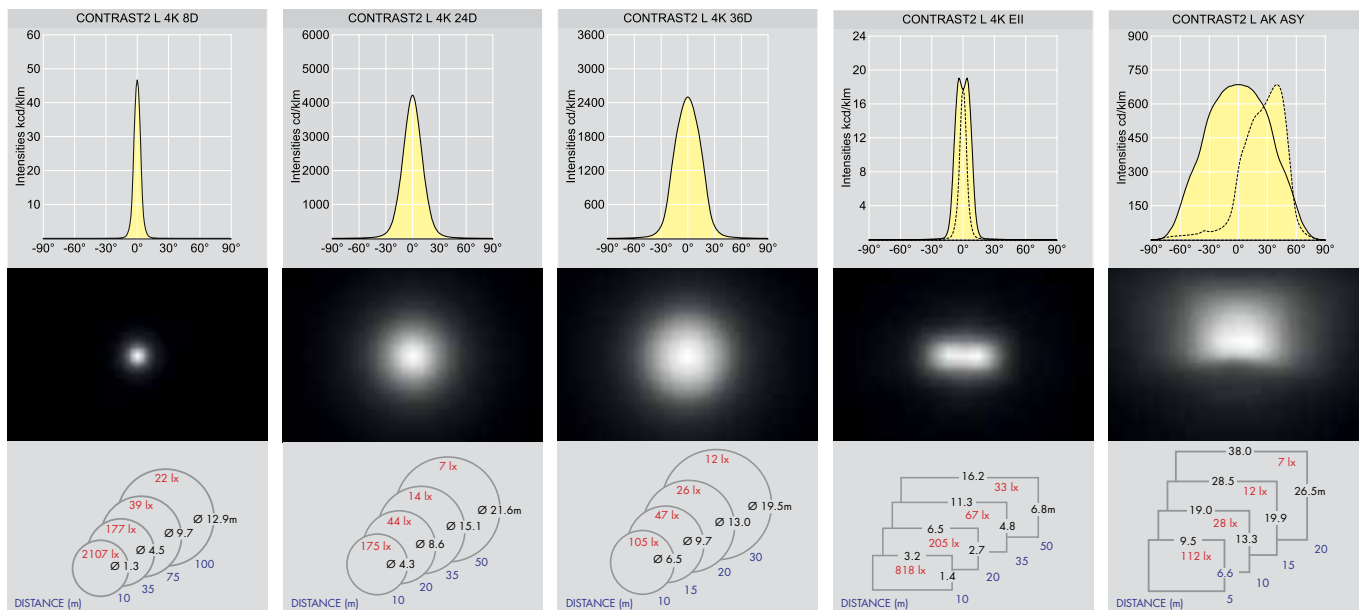
EN 60598 T_a-20 +25 T_a-20 +50 IP66 IK08



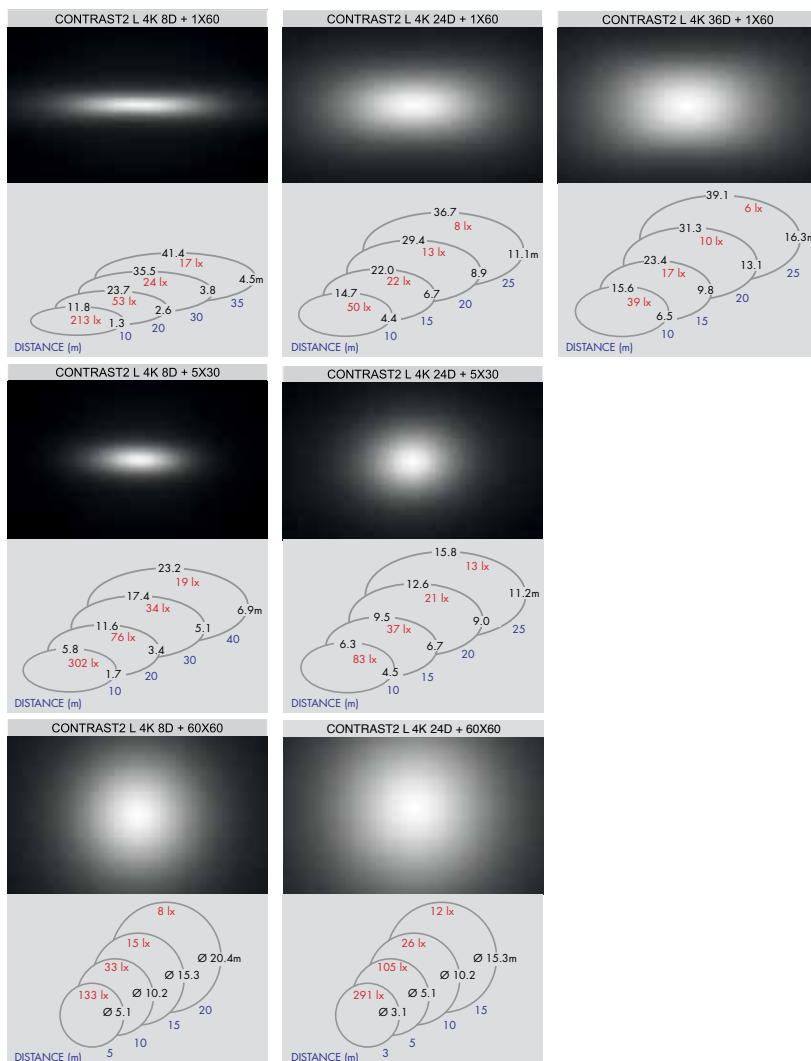
Lamps



Large versions



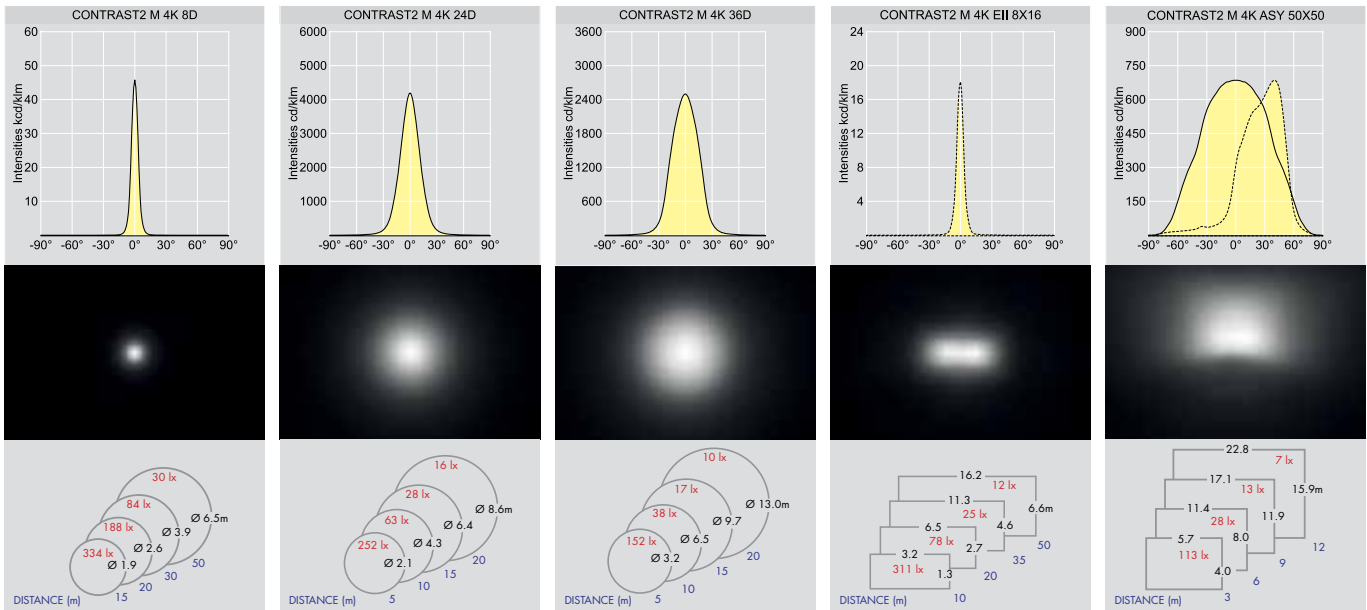
Large versions with accessory



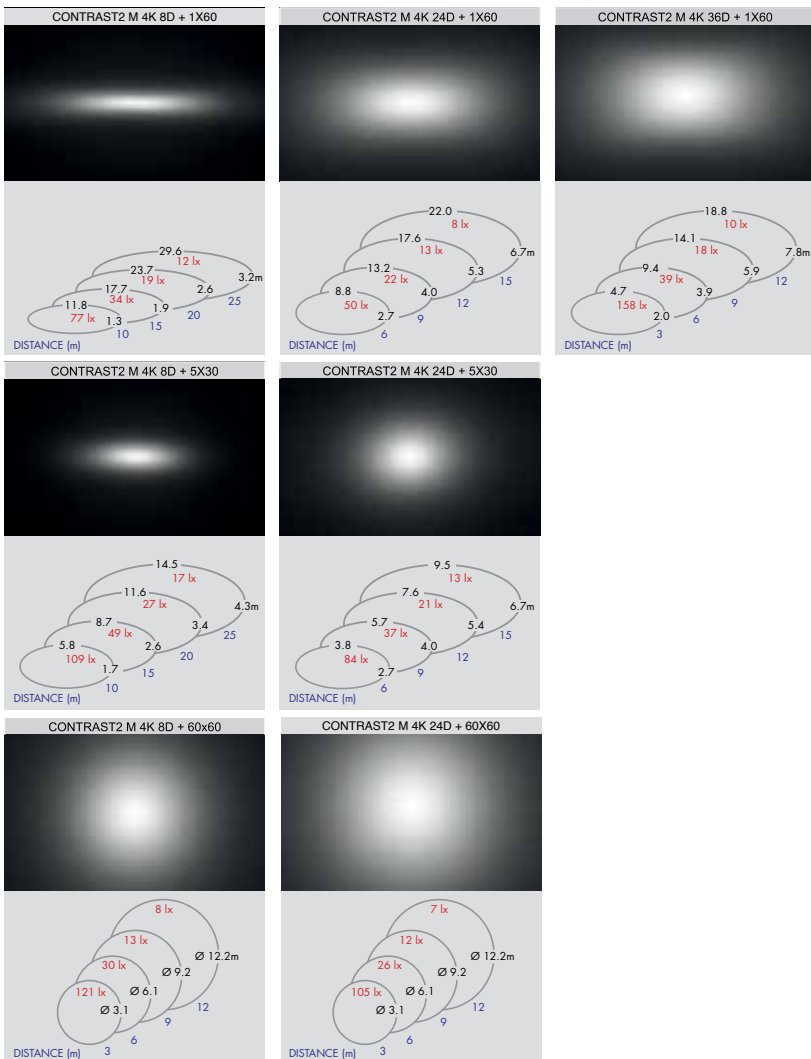
This lx value indicates an approximate value of average illuminance for the Contrast Large with 4000°K LED. For the 3000°K version this value could be reduced about 9%. For the 6000°K version this value could be increased about 20%.

Contrast 2 LED NEW

Medium versions



Medium versions with accessory



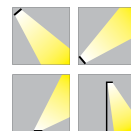
This lx value indicates an approximate value of average illuminance for the Contrast Medium with 4000°K LED. For the 3000°K version this value could be reduced about 9%.

Standards

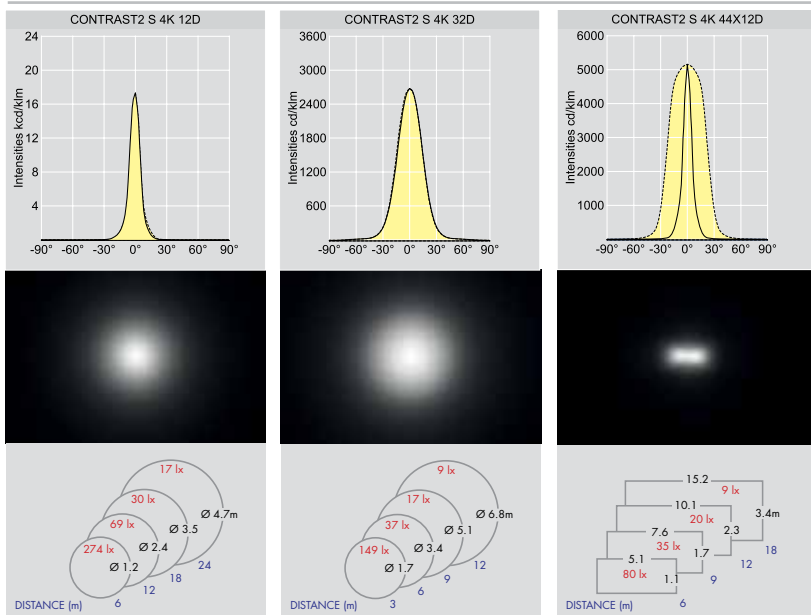
EN 60598 T_a-20 +25 T_a-20 +50 IP66 IK08



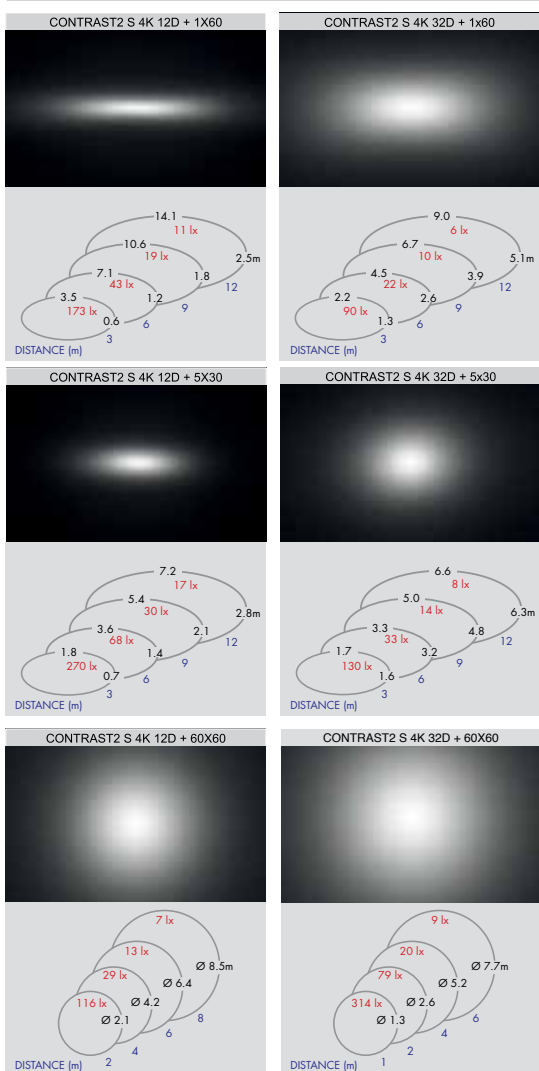
Lamps



Small versions



Small versions with accessory



This lx value indicates an approximate value of average illuminance for the Contrast Small with 4000°K LED. For the 3000°K version this value could be reduced about 9%.

Contrast Columns NEW

Pedestrian application



An aesthetically innovative modern pedestrian column with customisation options to enrich individual project identity

- Unique shape complements the innovative design of Contrast 2 LED
- Wooden or metal infills available. The metal sheets can be printed for project customisation (Fig. C, D, E and F)
- Diagonal cut-out at the top of the column allows a tilting angle of up to 60° for flexible light placement (Fig. A & B)
- The bottom of the column features a multifunctional diagonal cut profile, which aside from serving a technical function, can be customised with either sublimation transfer or the addition of clear or bright colour reflection when Contrast 2 LED is switched on

Materials

Column in steel S235.

The pole is of a rectangular to a semi-rectangular shape in:

Galvanized steel

Powder coated steel with 1 RAL

Powder coated steel with 2 RAL which can be outside/inside or the stand up part only.

The semi-rectangular shape can be filled with wood or metallic insert with customised sublimation transfer.

For more information, contact your Thorn sales representative.

Dimensions

Heights: 4m, 5m and 6m

4/5m: section 200 x 120mm.

6m: section 300 x 150mm.

Door dimensions: 500 x 90mm on the mast rear.

Installation

Easy installation with 2 screws using the standard stirrups of Contrast 2 LED.

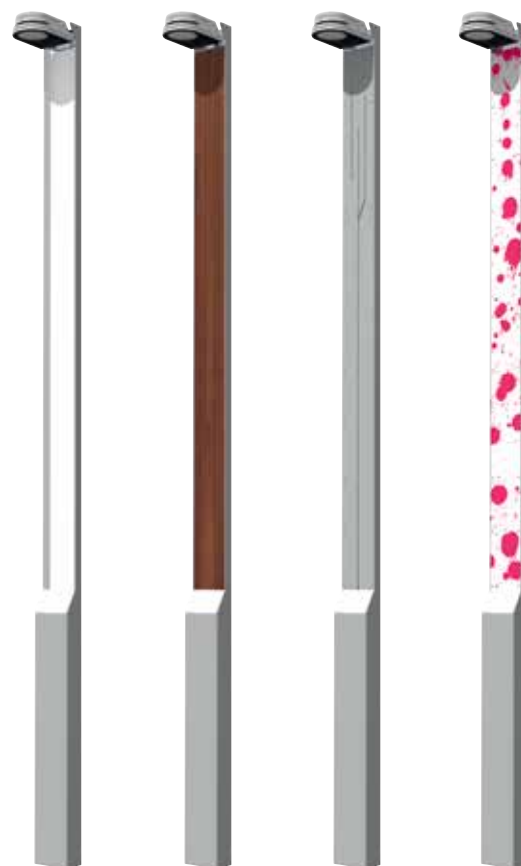


Fig. C

Fig. D

Fig. E

Fig. F



Fig. A - The top of the column showing the cut out profile

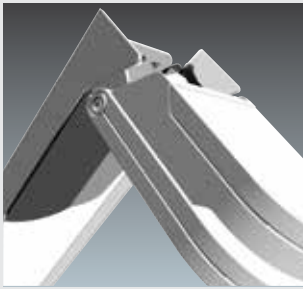
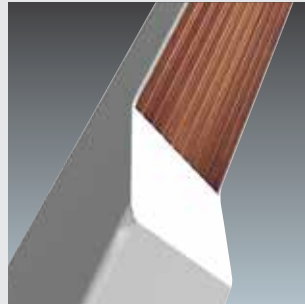
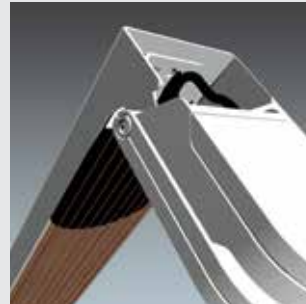


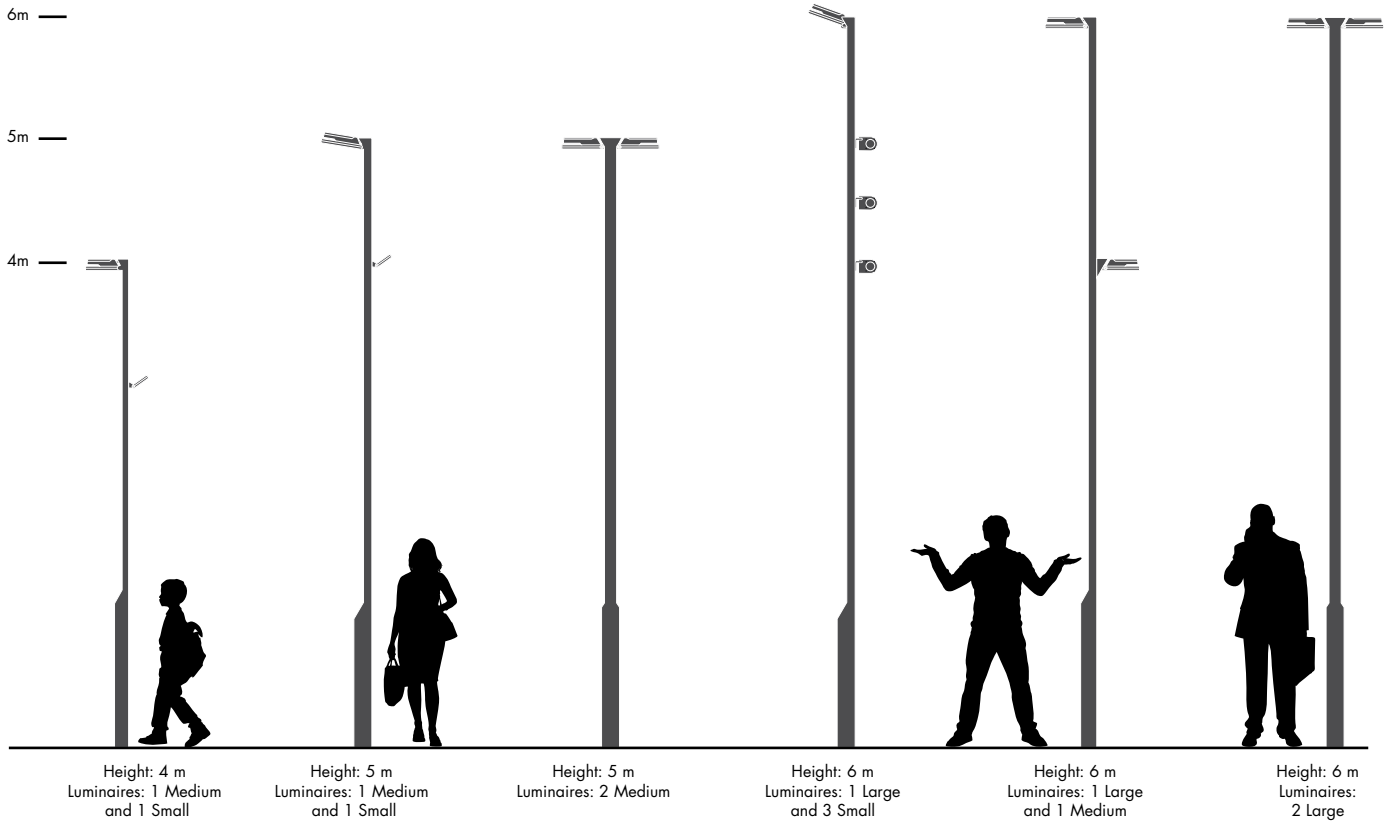
Fig. B - Tilting angle of up to 60° for flexible light placement



Diagonal cut profile



Top of column



Contrast Columns NEW

Scenic application



An aesthetically innovative square conical column providing decoration and function

- Innovative square conical column providing a decorative alternative to the classic cylindrical frame
- The column is available plain or with six flat notches. The notches support Contrast 2 LED fixation and add further decorative appeal to scenic applications (Fig. A and B)
- Floodlight orientation can be adjusted according to the required effect
- The high column can accommodate four large Contrast 2 LED luminaires as standard, with additional quantities available depending on the installation environment
- Various fixation types with frames available for a wide range of applications (Fig. C & D) plus mast extension

Materials

Column in steel S235. Supplied in 1 part for 10m and 2 parts for upper versions. Galvanised steel and powder coated steel with 1 RAL

For more information, contact your Thorn sales representative.

Dimensions

10m with base section: 210 x 210mm
12m with base section: 255 x 255mm
14m with base section: 300 x 300mm
Door dimensions: 500 x 90mm

Installation

Easy installation with 2 screws using the standard stirrups of Contrast 2 LED.

For installation of more than 4 Contrast 2 LED, contact your Thorn sales representative for a validation study.



Fig. A

Fig. B

Fig. C

Fig. D

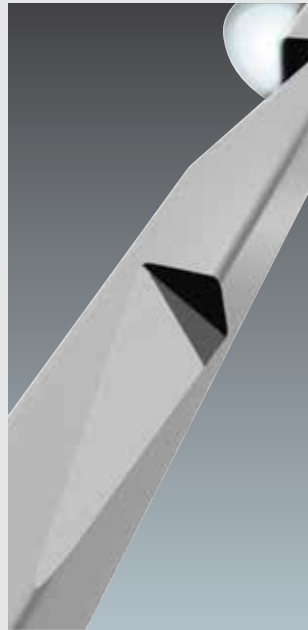


Fig. A and B - The notches support Contrast 2 LED

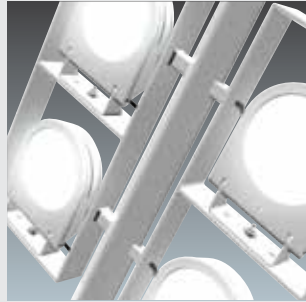


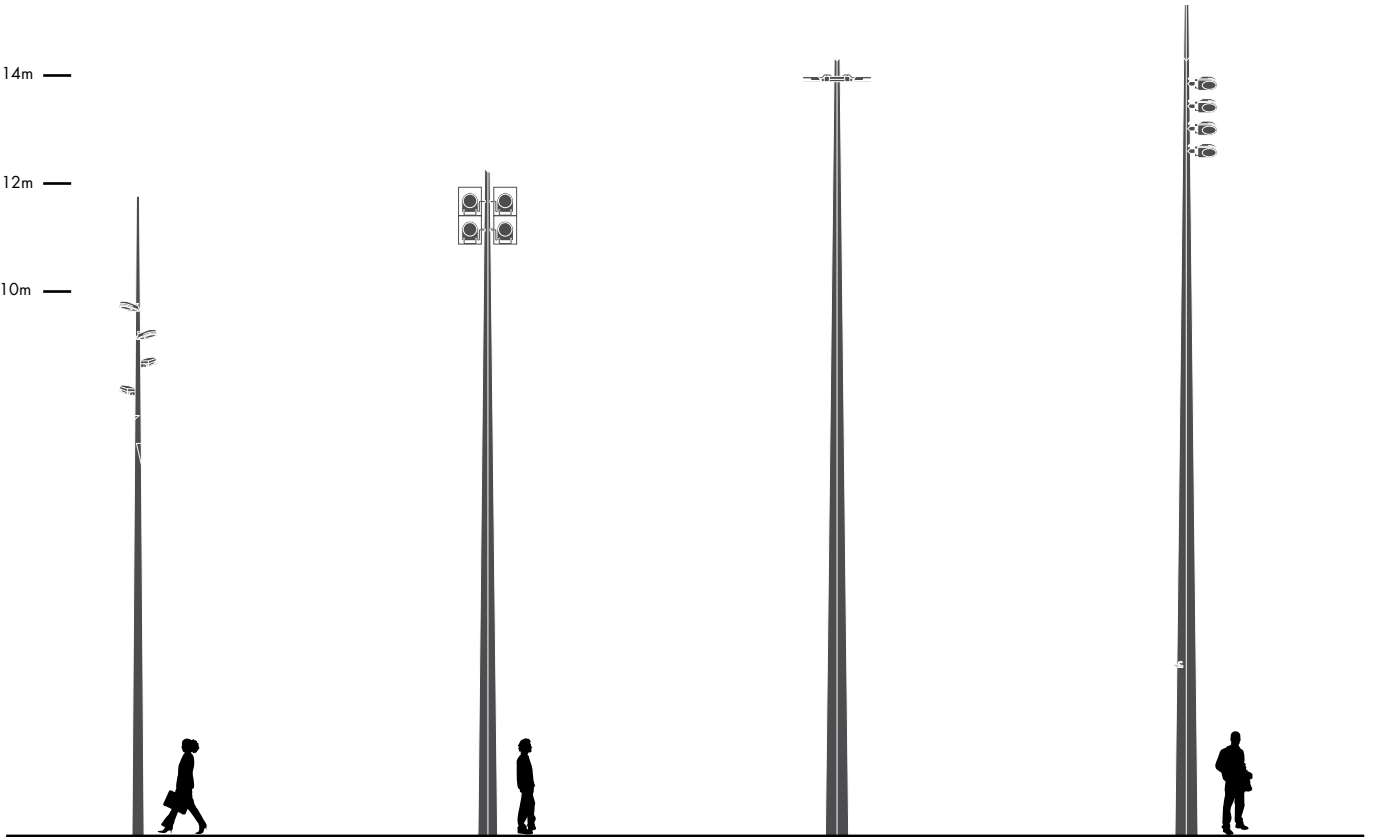
Fig. E



Fig. F



14m —
12m —
10m —



Height: 10 m
Luminaires: 4 Large

Height: 10 m
Luminaires: 4 Large

Height: 12 m
Luminaires: 4 Large

Height: 14 m
Luminaires: 4 Large