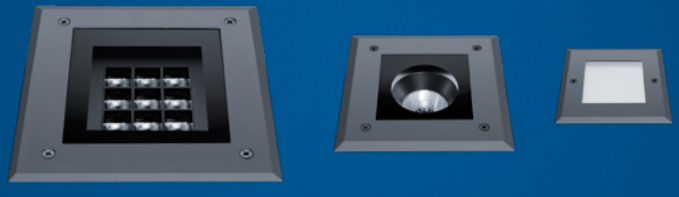
THORN
LIGHTING

AXYL OPERA

(WALK OVER)



Life in colour

WE MAKE LIGHT WORK

LIFE IN COLOUR

Axyl Opera is a range of in-ground square walk over luminaires perfect for urban areas, residential projects and public parks.

Available in square shape, four sizes and four different beam angles, from a soft and diffused effect, to a narrow beam or asymmetrical light distribution.

Axyl Opera L is available with a 5D Beam. Through the integration of a liquid-crystal lens (LensVector™) directly into the optical system advanced flexibility for the lighting designer now comes as standard.

A wide beam angle is also available thanks to Axyl Opera's comfortable double inner reflector and COB LED. Tiltable optics and light engines enhances flexibility and offers the opportunity to fine-tune on site and guarantee the right lit effect for the application.

As well as being available in CRI 90 (2700, 3000 and 4000 K), Axyl Opera L and XL variants are available in RGBW (Medium beam option) meaning a splash of colour can be added to any scheme to draw interest or to offer colour change for events or local celebrations.

The range comes either as Non-Dim, DALI-2 on-board (Large and Extra Large) or for small and medium sized versions, a remote DALI-2 driver is available.

AXYL OPERA

FEATURES

SHAPE AND SIZES
Axyl Opera walk over is a square in-ground luminaire available in four sizes (small to extra large) with a stainless steel or aluminium outer bezel.

LIGHT QUALITY
COB and high power LEDs offer precise light distribution and CRI90.

CONTROLLABILITY
Axyl Opera walk over is available Non-Dim, DALI-2 on-board (large and extra large) and for small and medium a remote DALI-2 driver can be ordered separately.
5D Beam uses liquid-crystal lens technology to electronically shape and adjust the beam with precision.

DURABILITY
Axyl Opera walk over is rated IK09 and IP67.
Corrosion Class C3.

HOUSING COLOUR & MATERIAL
Available in White (R9016), Black (R9005), Light Grey (R9006), Anthracite Grey (G9005).

WIRING
Luminaire supplied with neoprene 0.5 m H07RN-F cable and connector, or 0.2 m cable and connector for Axyl Opera L and XL non-RGBW variants.

TECHNICAL DESCRIPTION
Die-cast aluminium housing with high corrosion resistance.
Marine grade stainless steel AISI 316L 2 mm thick front bezel or aluminium.
Toughened glass diffuser 8 mm thick for small and medium, 10 mm thick for large and 12 mm for extra large.
Stainless steel A4 screws.
Silicone gaskets.
Double Power Paint process.
Supplied with polypropylene recessing box.
Electrical Class I.
3 SDCM COB light engine.
Risk class RG1.
Operating Ambient Temperature –20 °C to +50 °C.
Lifetime: 70 000 Hrs L80 B10 Ta 25 °C / 50 000 Hrs L80 B10 Ta 40 °C.
Maximum load capacity 1050 kg for extra large and large sizes.
Maximum load capacity 510 kg for medium and small sizes.

CERTIFICATION

5D BEAM

BEAM ANGLE CHANGE AT THE TOUCH OF A BUTTON

5D Beam brings advanced flexibility to lighting design by integrating a liquid-crystal lens (LensVector™) directly into the optical system.

With 5D Beam, there's no need to physically change lenses or reflectors to create a new lighting effect.

You simply shape and adjust the beam electronically – giving you complete control over both light output and distribution at the touch of a button. Maximum flexibility in just one luminaire.

When activated, an electrical signal aligns the liquid-crystal molecules, allowing light to be shaped precisely to the required angle. A purpose-designed control board delivers the exact voltage needed to manage both the LED and the LensVector™ technology.

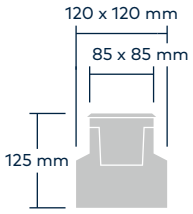
5D Beam can be controlled via DALI Signal (DALI Compliant).

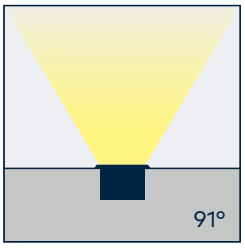
PHOTOMETRIC SUMMARY

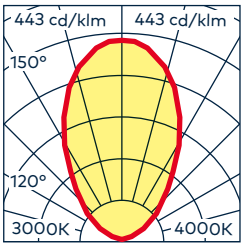
Size	Colour temp	No. of LEDS	Beam angle	Lumen output (lm)	Power (W)	Rated input power (W)	Luminaire efficacy (lm/W)
Small	2700 K	1	Wide Beam (91°)	19	1.1	2.2	8.64
	3000 K			20			9.09
	4000 K			21			9.55
	2700 K		Narrow Beam (12°)	160	2.2	3.6	44.44
	3000 K			170			47.22
	4000 K			193			53.61
Medium	2700 K	1	Wide Beam (81°)	33	1.5	3	11.00
	3000 K			35			11.67
	4000 K			38			12.67
	2700 K	4	Narrow Beam (12°)	449	6	7.1	63.24
	3000 K			488			68.73
	4000 K			498			70.14
	2700 K		Asymmetric	449			63.24
	3000 K			480			67.61
	4000 K			497			70.00
	2700 K	1	Medium Beam (31°)	411	6.6	8.7	47.24
	3000 K			434			49.89
	4000 K			458			52.64
Large	2700 K	24	Wide Beam (80°)	57	8.4	9.8	5.82
	3000 K			92			9.39
	4000 K			101			10.31
	2700 K	9	Narrow Beam (11°)	1011	14.8	16.6	60.90
	3000 K			1143			68.86
	4000 K			1179			71.02
	2700 K		Asymmetric	1083			65.24
	3000 K			1188			71.57
	4000 K			1250			75.30
	2700 K	1	Medium Beam (25°)	940	11.5	15.2	61.84
	3000 K			973			64.01
	4000 K			1027			67.57
	RGBW	3		640	15.9	19.8	32.32
	2700 K	1	5D Option: 10° to 49° (tiltable +/– 15°)	864	12.8	16.4	52.68
	3000 K			909			55.43
	4000 K			954			58.17
Extra Large	2700 K	30	Wide Beam (85°)	263	10.5	11.1	23.69
	3000 K			289			26.04
	4000 K			320			28.83
	RGBW	5	Medium Beam (34°)	1124	26.6	30.4	36.97
	2700 K	16	Narrow Beam (11°)	2229	31.1	33	67.55
	3000 K			2427			73.55
	4000 K			2636			79.88
	2700 K		Asymmetric	2377			72.03
	3000 K			2407			72.94
	4000 K			2672			80.97
	2700 K		Medium Beam (29°)	2515	28.2	33.2	75.75
	3000 K			2602			78.37
	4000 K			2790			84.04

AXYL OPERA

SMALL (WIDE BEAM)







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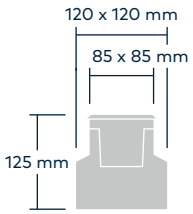

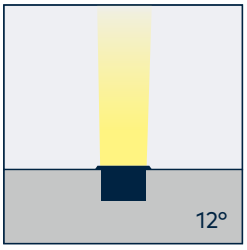

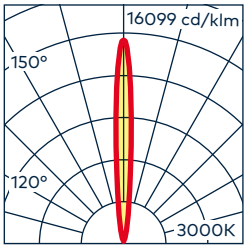

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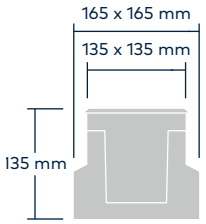

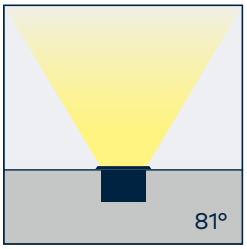

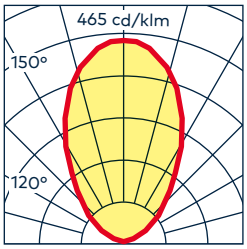

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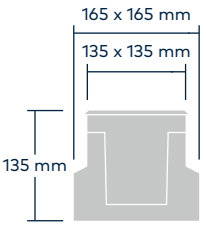
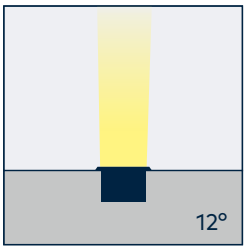
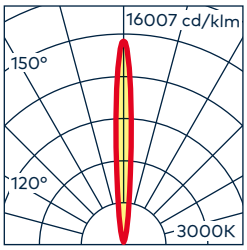
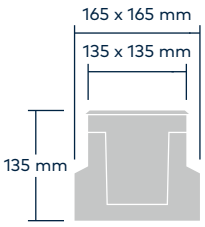


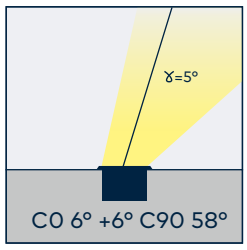


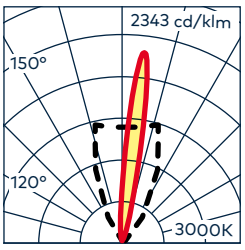


AXYL OPERA

MEDIUM (ASYMMETRIC BEAM)







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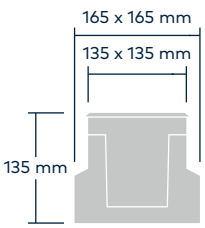
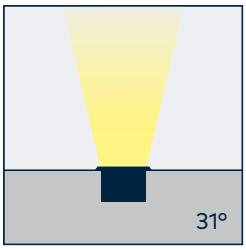
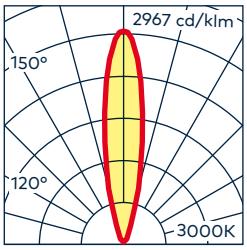
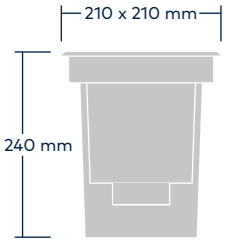
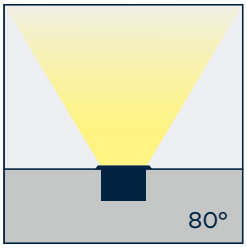


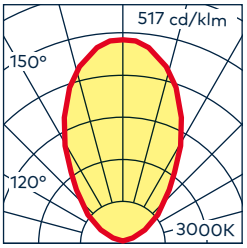




LARGE (WIDE BEAM)







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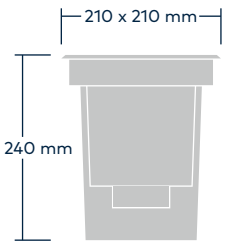
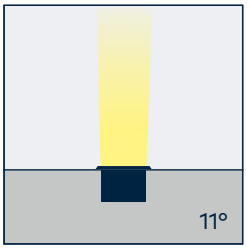
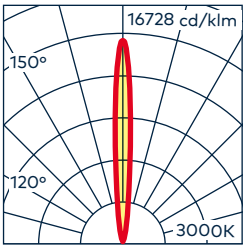
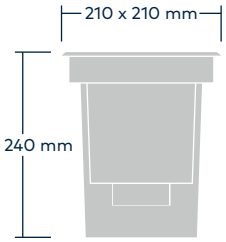
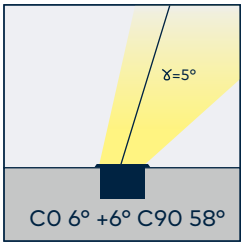


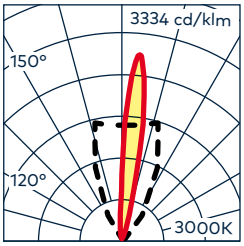




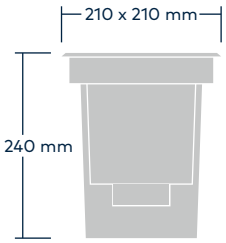
LARGE (ASYMMETRIC BEAM)

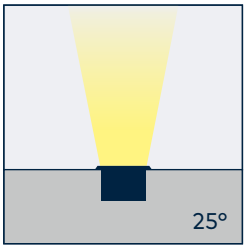


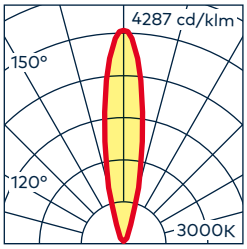




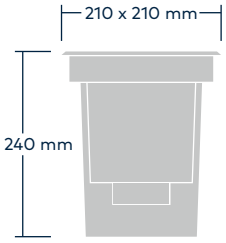
LARGE (MEDIUM BEAM)

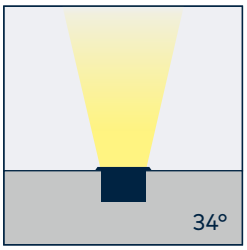


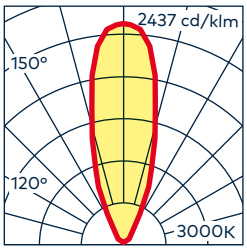




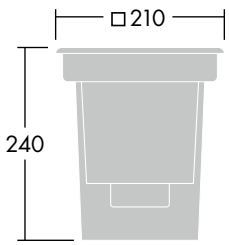
LARGE (RGBW – MEDIUM BEAM)

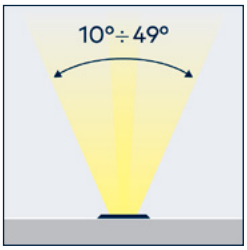


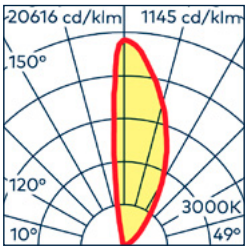




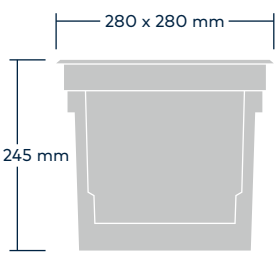
LARGE (5D BEAM)

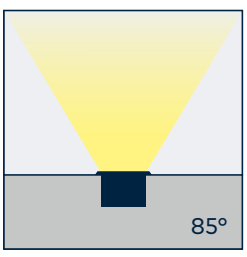


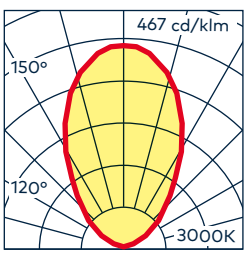




EXTRA LARGE (WIDE BEAM)

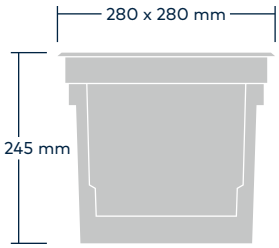


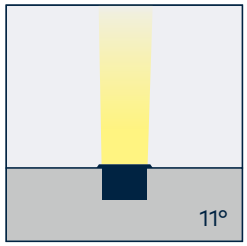


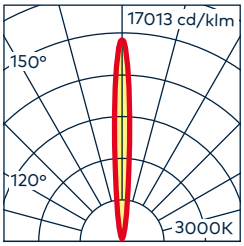


AXYL OPERA

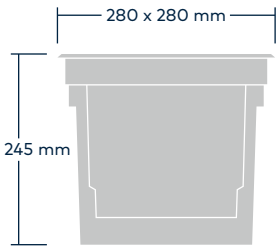
EXTRA LARGE (NARROW BEAM)

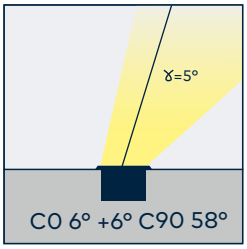


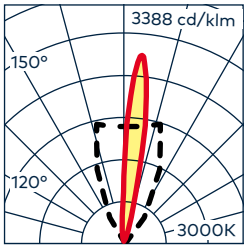




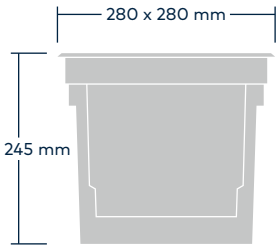
EXTRA LARGE (ASYMMETRIC BEAM)

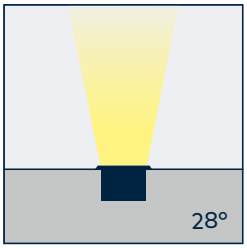


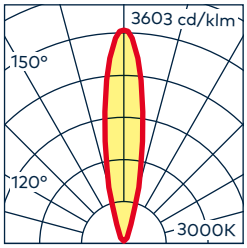




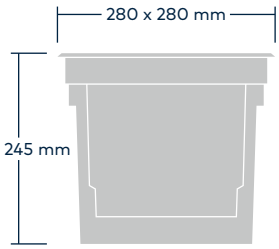
EXTRA LARGE (MEDIUM BEAM)

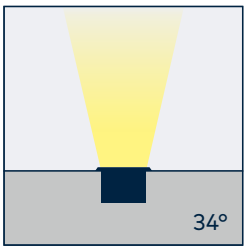


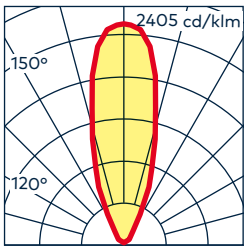




EXTRA LARGE (RGBW - MEDIUM BEAM)







ACCESSORIES

ORDERING CODE: 96700028
(GB IP67 20W 230V 250-700 CL2 HFX)
230V/250mA-700mA DALI, DIM IN BOX.
IP67, 20W, Class II
Dimensions: 175.5 mm x 86.5 mm x 43 mm

ORDERING CODE: 96700032
(BOX 90W IP55 230V-24VPWM DALI RGBW)
230V-24VPWM DALI RGBW
IP55, 90W, Class II
Dimensions: 260 mm x 260 mm x 100 mm

ORDERING CODE: 96700031
(BOX 60W IP55 230V-24VPWM DALI RGBW)
230V-24VPWM DALI RGBW
IP55, 60W, Class II
Dimensions: 260 mm x 260 mm x 100 mm

ORDERING CODE: 96700033
(BOX 320W IP55 230V-24VPWM DALI RGBW)
230V-24VPWM DALI RGBW
IP55, 320W, Class II
Dimensions: 326 mm x 300 mm x 128 mm

ORDERING CODE: 96801046
(GB IP67 31W 230V 48VDC 5D CL2 HF)
Mandatory power supply for 5D Product 240V/48Vdc
IP67, 31W, Class II
Dimensions: 120 mm x 38 mm x 25 mm

Luminaire variant	96700028	96700031	96700032	96700033	96801046
Small (Wide Beam)	7	–	–	–	–
Small (Narrow Beam)	5	–	–	–	–
Medium (Medium Beam)	3	–	–	–	–
Medium (Asymmetric Beam)	3	–	–	–	–
Medium (Narrow Beam)	3	–	–	–	–
Medium (Wide Beam)	6	–	–	–	–
Large (RGBW – Wide Beam)	–	3	5	20	–
Large (5D Beam)	–	–	–	–	1
Extra Large (RGBW – Wide Beam)	–	2	3	12	–

For all drivers:
Maximum distance between luminaire and power supply: 10 m
Operating ambient temperature: –20 °C to 50 °C
Built-in surge protection (kV) L/N-PE: 2 kV

BUILD YOUR PRODUCT

AXYL OPERA

IN GROUND WALK OVER

Product	Size (Shape)		Mounting		LED	
Axyl Opera	85 mm (front square)	**S**	Walk Over	**WO**	Chip on board Single LED	**1L**
	135 mm (front square) or 130 mm (SS colour only)	**M**			LED Module 2 LEDs	**2L**
	210 mm (front square) or 200 mm (SS colour only)	**L**			LED Module 2 x 2 LEDs	**4L**
	280 mm (front square) or 275 mm (SS colour only)	**XL**			LED Module 5 RGBW LEDs	**5L**
					LED Module 3 x 3 LEDs	**9L**
					LED Module 4 x 4 LEDs	**16L**
					LED Module 6 x 4 LEDs	**24L**
					LED Module 6 x 5 LEDs	**30L**

EXAMPLE PRODUCT DESCRIPTION

Axyl Opera	M	WO	5L

Colour temp		Optic		Control		Body colour	
CRI 90 2700 K	**927**	Transparent glass - Narrow Spot Beam 12° with lens - Adjustable +/-15° (M, L and XL)	**NB**	Non-Dim	**HF**	White texturised	**WH**
CRI 90 3000 K	**930**	Transparent Glass - Medium Beam 25° (L and XL) or 31° (M) with reflector - Adjustable +/-15°	**MB**	DALI-2	**HFX**	Black texturised	**BK**
CRI 90 4000 K	**940**	Acid Etched glass - Diffused Wide Symmetrical Beam 81° (S), 70° (M), 79° (L), 85° (XL)	**WB**	Remote DALI-2	**RD***	Light Grey texturised	**GY**
RGBW (W=3000 K)	**RGBW**	Transparent glass - Asymmetrical Beam 58° with lenses - Adjustable +/-5°	**AS**	No driver on-board Dimmable via remote Power Supply DALI DT6 (for RGBW variant)	**PWM ****	Anthracite Grey texturised	**ANT**
		5D Optic	**5D**				

EXAMPLE PRODUCT DESCRIPTION

RGBW	MB	PWM	ANT

* Note: If the RD (Remote DALI-2) option is selected, this will need ordering separately. Visit the website for more information.

** Note: For RGBW variant (large and extra large only), the PWM option should be selected above.

5 YEAR GUARANTEE

As a globally leading luminaire manufacturer, Thorn Lighting provides a five-year warranty for its complete product range within all European Countries. thornlighting.com/guarantee

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