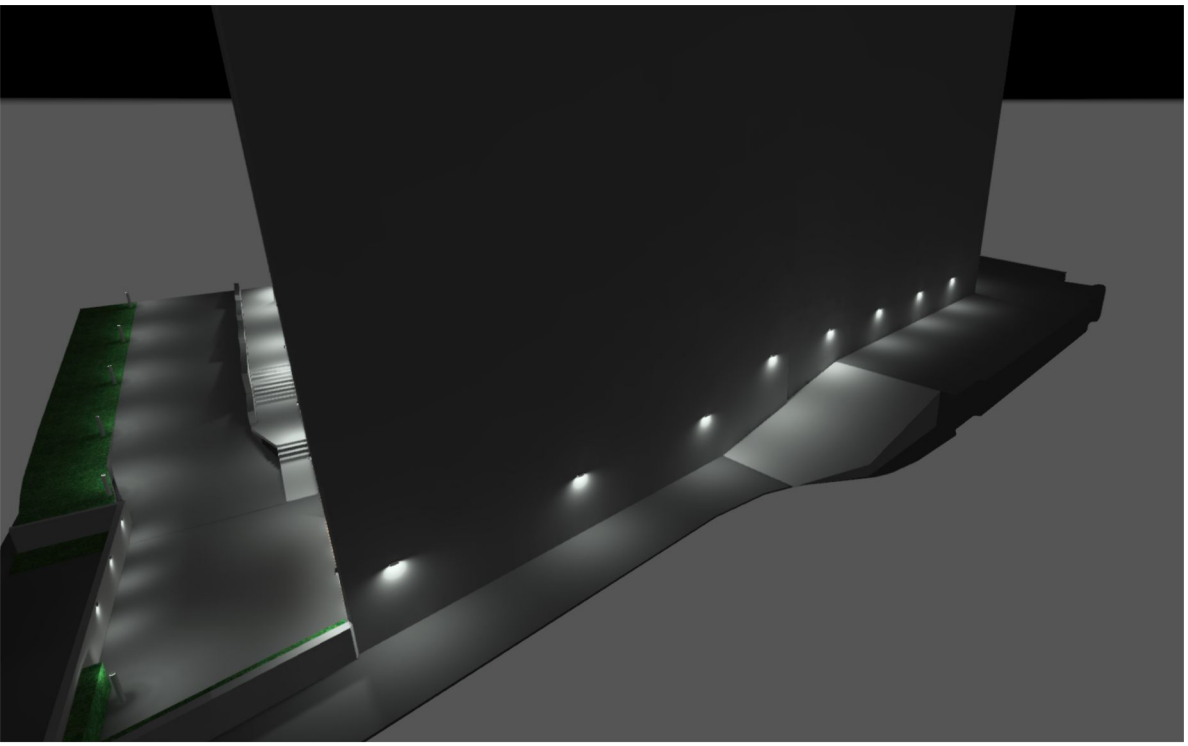
Date 16/02/2023

DIALux



70 Great Bridgewater

External Lighting

Created with DIALux

Table of Contents

Cover 1
Table of Contents 2
Images 3

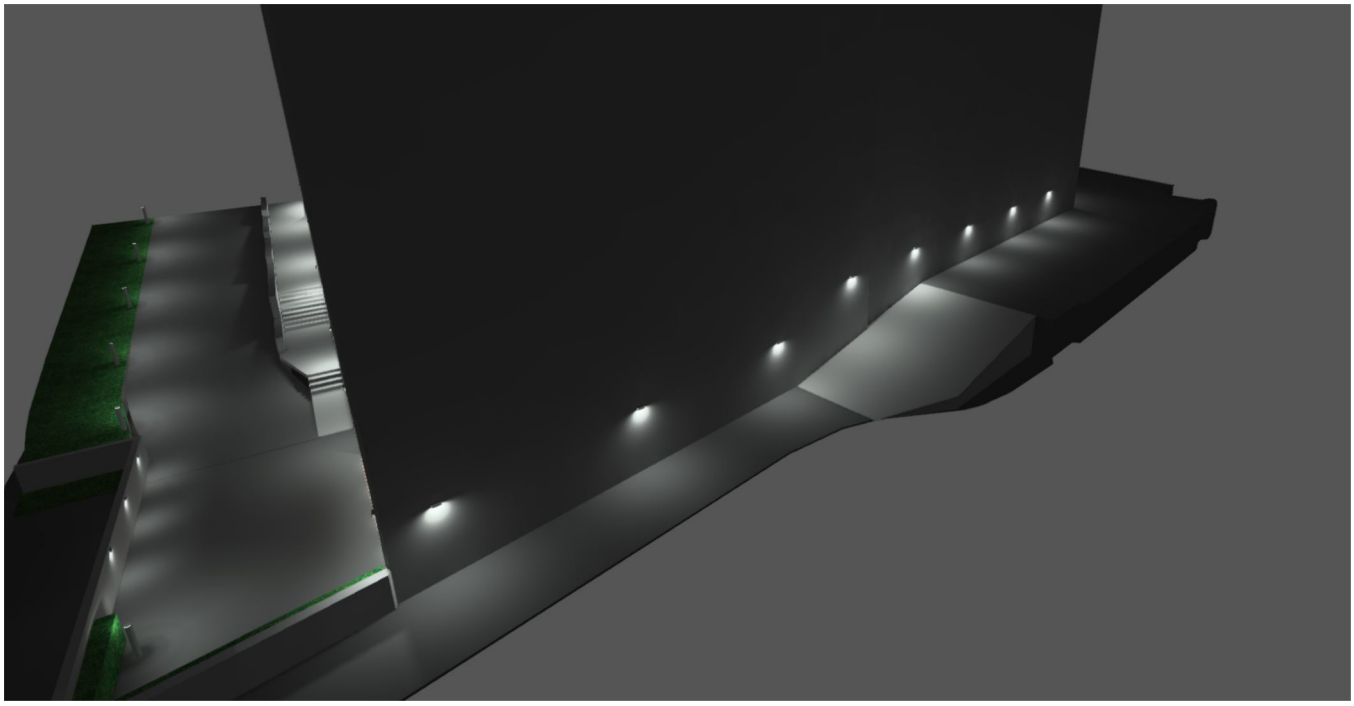
Product data sheets

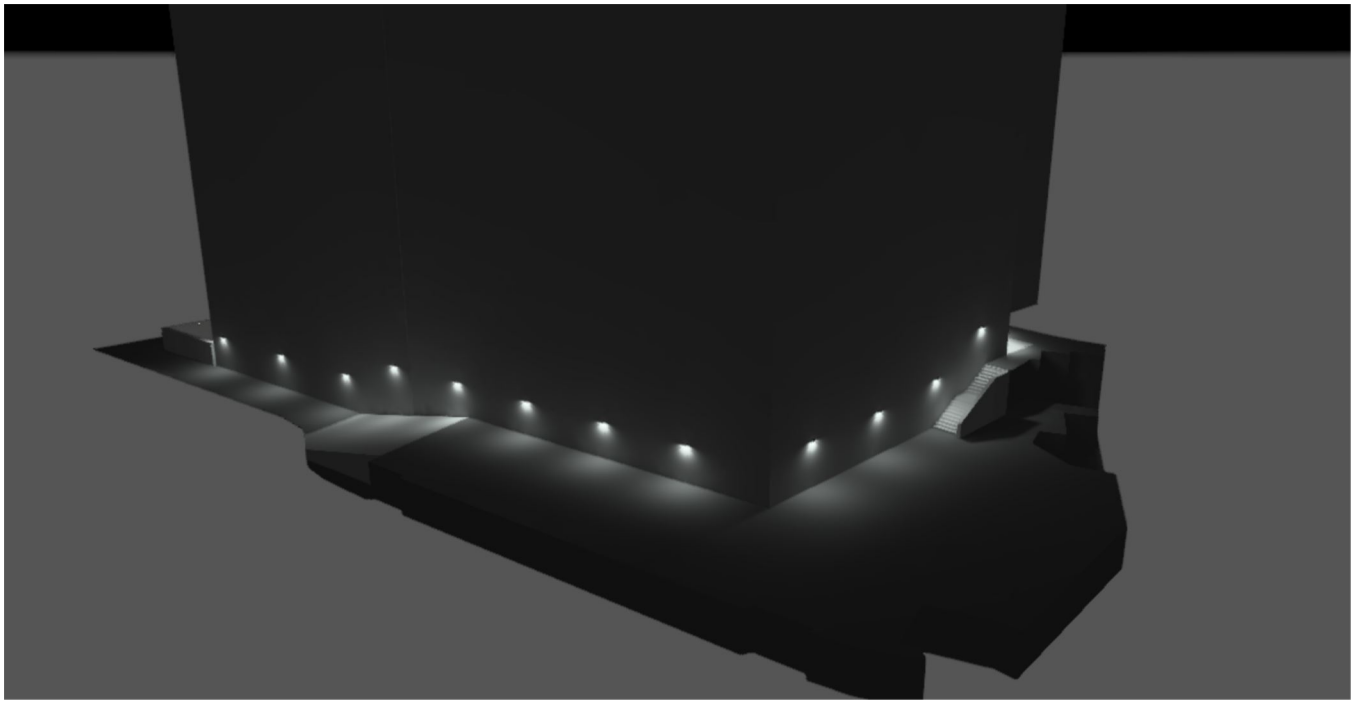
BEGA - LED 2,5W (1x LED 1,9W) 5
BEGA - LED 7,1W (1x LED 6,0W) 6
BEGA - LED 15,0W (1x LED 12,0 W) 7
Thorlux Lighting - Passway 11W - Pathway Distribution - 1100mm Root Mounted - 4000K (1x Passway 11W Pathway) 8

70 Great Bridgewater

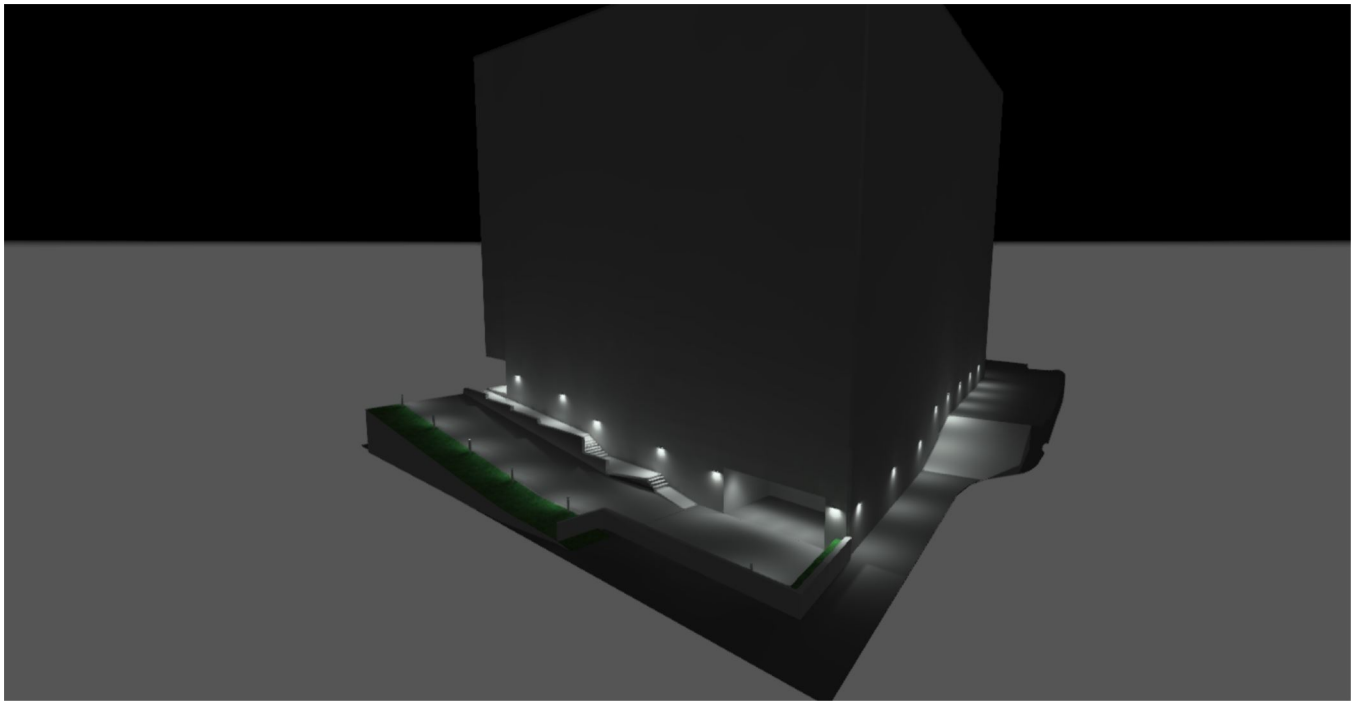
Canal walkway (Canal & East Elevation) / Light scene 1 / Perpendicular illuminance (adaptive) 9
Stair way (East Elevation) / Light scene 1 / Perpendicular illuminance (adaptive) 10
Pedestrian Walkway Corner (East Elevation) / Light scene 1 / Perpendicular illuminance (adaptive) 11
Car Park Entrance / Light scene 1 / Perpendicular illuminance (adaptive) 12
Pedestrian Walkway (West Elevation) / Light scene 1 / Perpendicular illuminance (adaptive) 13
Substation Entrance (West Elevation) / Light scene 1 / Perpendicular illuminance (adaptive) 14
Bin Store Entrance (West Elevation) / Light scene 1 / Perpendicular illuminance (adaptive) 15
Canal Walkway Ramp (Canal Elevation) / Light scene 1 / Perpendicular illuminance (adaptive) 16
Canal Walkway (Canal Elevation) / Light scene 1 / Perpendicular illuminance 17
Car Park Ramp / Light scene 1 / Perpendicular illuminance 18

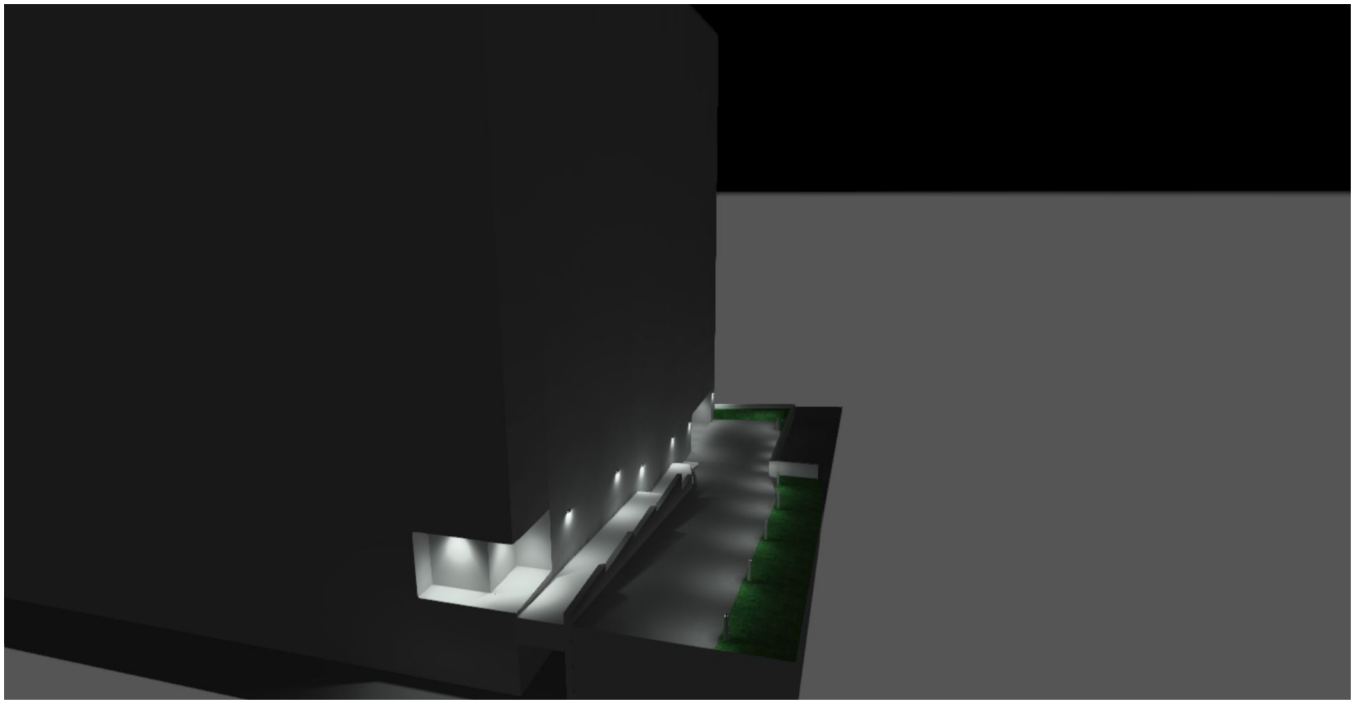
Images





Images



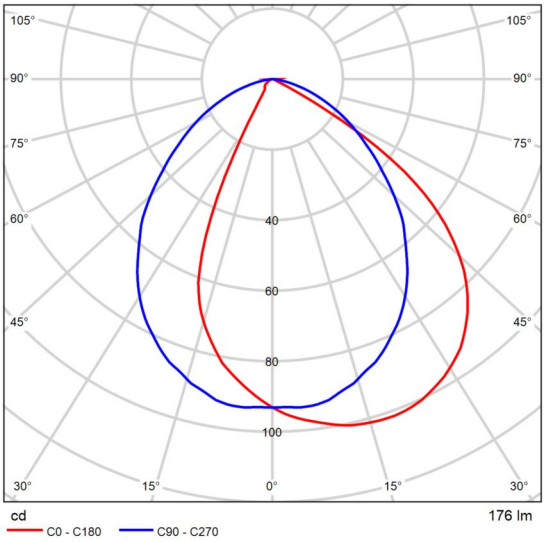


DIALux

Product data sheet

BEGA - LED 2,5W

Article No.	22280K3
P	2.5 W
$\Phi_{Luminaire}$	176 lm
Luminous efficacy	70.4 lm/W
CCT	3000 K
CRI	80



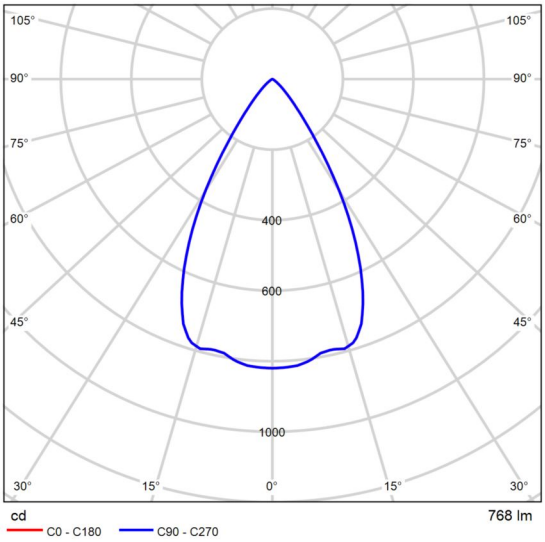
Polar LDC

BEGA Wandleuchte 22280K3. Gerichtetes Licht.
LED, 2,5 W Leuchten-Anschlussleistung, Leuchten-Lichtstrom 177 lm, Farbtemperatur 3000 K. Farbwiedergabeindex (CRI) > 80.
Mit austauschbarem BEGA LED-Modul mit Übertemperaturschutz und einer
Lebenserwartung von mindestens 50.000 Betriebsstunden.
20-jährige Nachliefergarantie auf das LED-Modul und die Verschleißteile.
Mit LED-Netzteil 220-240 V, 0/50-60 Hz. Schutzart IP 65. Leuchte aus Aluminiumguss,
Aluminium und Edelstahl, Farbe Grafit. Sicherheitsglas mattiert.
Eine Leitungsverschraubung für Netzanschlussleitung bis Ø 10,5 mm, max. 3 x 1,5 qmm.
Abmessungen: 160 x 70 x 55 mm.

Product data sheet

BEGA - LED 7,1W

Article No.	24290K3
P	7.1 W
$\Phi_{Luminaire}$	768 lm
Luminous efficacy	108.2 lm/W
CCT	3000 K
CRI	80



Polar LDC

BEGA Deckeneinbau-Tiefstrahler 24290K3. Symmetrisch breitstreuende Lichtstärkeverteilung.
LED, 7,1 W Leuchten-Anschlussleistung, Leuchten-Lichtstrom 769 lm, Halbstreuwinkel 54°, Farbtemperatur 3000 K. Farbwiedergabeindex (CRI) > 80.
Mit austauschbarem BEGA LED-Modul mit Übertemperaturschutz und einer Lebenserwartung von mindestens 50.000 Betriebsstunden.
20-jährige Nachliefergarantie auf das LED-Modul und die Verschleißteile.
Mit LED-Netzteil, DALI steuerbar, 220-240 V, 0/50-60 Hz im externen Gehäuse.
Schutzart IP 65, Schutzklasse II. Leuchte aus Aluminiumguss, Aluminium und Edelstahl.
Abschlussring aus Edelstahl. Sicherheitsglas klar. Optische Silikonlinse.
Reflektoroberfläche aus eloxiertem Reinstaluminium.
2 Leitungsverschraubungen mit Zugentlastung zur Durchverdrahtung der
Netzanschlussleitung von ø 4-10 mm, max. 5 x 1,5 qmm.
0,5 m Verbindungsleitung zwischen Leuchte und Netzteil.
Abmessungen Ø 120 x 90 mm.
Leuchte für den Einbau in eine Einbauöffnung mit den Abmessungen Ø 97 x 90 mm
oder in das Einbaugehäuse 10440.

Glare evaluation according to UGR

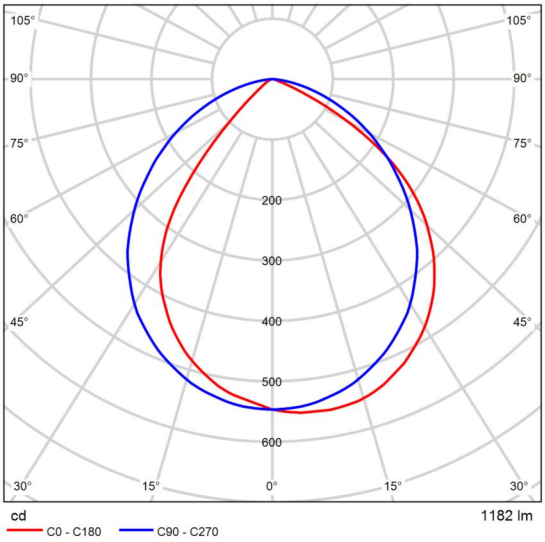
ρ Ceiling		70	70	50	50	30	70	70	50	50	30
ρ Walls		50	30	50	30	30	50	30	50	30	30
ρ Floor		20	20	20	20	20	20	20	20	20	20
Room size X	Y	Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis				
2H	2H	18.1	18.9	18.4	19.1	19.3	18.1	18.9	18.4	19.1	19.3
	3H	18.0	18.7	18.3	19.0	19.2	18.0	18.7	18.3	19.0	19.2
	4H	17.9	18.6	18.2	18.9	19.1	17.9	18.6	18.2	18.9	19.1
	6H	17.9	18.5	18.2	18.8	19.1	17.9	18.5	18.2	18.8	19.1
	8H	17.8	18.5	18.2	18.7	19.0	17.8	18.5	18.2	18.7	19.0
	12H	17.8	18.4	18.1	18.7	19.0	17.8	18.4	18.1	18.7	19.0
4H	2H	17.9	18.6	18.2	18.9	19.1	17.9	18.6	18.2	18.9	19.1
	3H	17.8	18.4	18.2	18.7	19.0	17.8	18.4	18.2	18.7	19.0
	4H	17.7	18.3	18.1	18.6	19.0	17.7	18.3	18.1	18.6	19.0
	6H	17.7	18.1	18.1	18.5	18.9	17.7	18.1	18.1	18.5	18.9
	8H	17.6	18.1	18.1	18.4	18.9	17.6	18.1	18.1	18.4	18.9
	12H	17.6	18.0	18.0	18.4	18.8	17.6	18.0	18.0	18.4	18.8
8H	4H	17.6	18.0	18.0	18.4	18.8	17.6	18.0	18.0	18.4	18.8
	6H	17.6	17.9	18.0	18.3	18.8	17.6	17.9	18.0	18.3	18.8
	8H	17.5	17.8	18.0	18.3	18.7	17.5	17.8	18.0	18.3	18.7
	12H	17.5	17.7	18.0	18.2	18.7	17.5	17.7	18.0	18.2	18.7
12H	4H	17.6	18.0	18.0	18.4	18.8	17.6	18.0	18.0	18.4	18.8
	6H	17.5	17.8	18.0	18.3	18.7	17.5	17.8	18.0	18.3	18.7
	8H	17.5	17.7	18.0	18.2	18.7	17.5	17.7	18.0	18.2	18.7
Variation of the observer position for the luminaire distances S											
S = 1.0H		+4.6 / -7.6					+4.6 / -7.6				
S = 1.5H		+7.3 / -10.6					+7.3 / -10.6				
S = 2.0H		+9.3 / -11.9					+9.3 / -11.9				
Standard table		BK00					BK00				
Correction summand		-0.5					-0.5				
Corrected glare indices referring to 768lm Total luminous flux											

UGR diagram (SHR: 0.25)

Product data sheet

BEGA - LED 15,0W

Article No.	24374K3
P	15.0 W
$\Phi_{Luminaire}$	1182 lm
Luminous efficacy	78.8 lm/W
CCT	3000 K
CRI	80



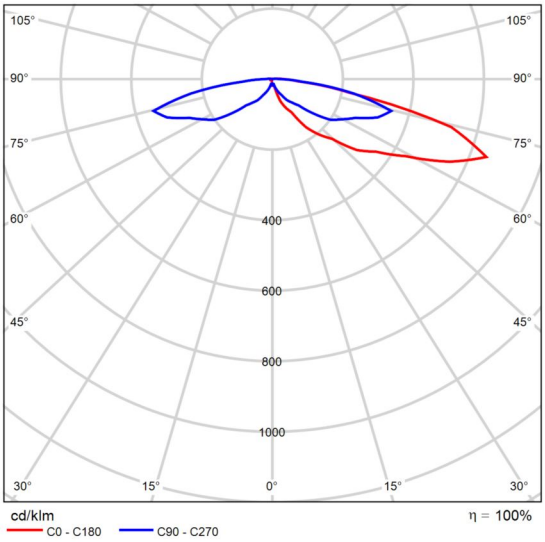
Polar LDC

BEGA Wandleuchte 24374K3. Gerichtetes Licht.
LED, 15 W Leuchten-Anschlussleistung, Leuchten-Lichtstrom 1182 lm,
Farbtemperatur 3000 K. Farbwiedergabeindex (Ra) > 80.
Mit austauschbarem BEGA LED-Modul mit Übertemperaturschutz und einer
Lebenserwartung von mindestens 50.000 Betriebsstunden.
20-jährige Nachliefergarantie auf das LED-Modul und die Verschleißteile.
Mit LED-Netzteil, DALI steuerbar, 220-240 V, 0/50-60 Hz. Schutzart IP 65.
Leuchte aus Aluminiumguss, Aluminium und Edelstahl, Farbe Grafit.
Sicherheitsglas mattiert. Zwei Leitungseinführungen zur Durchverdrahtung der
Netzanschlussleitung bis Ø 10,5 mm, max. 5 x 1,5 qmm.
Abmessungen: 315 x 110 x 85 mm.

Product data sheet

Thorlux Lighting - Passway 11W - Pathway Distribution - 1100mm Root Mounted - 4000K

Article No.	PW19913/PATH
P	14.0 W
Φ_{Lamp}	780 lm
$\Phi_{Luminaire}$	780 lm
η	100.00 %
Luminous efficacy	55.7 lm/W
CCT	3000 K
CRI	84



Polar LDC

The Passway is a lighting bollard designed to protect itself and those around it. A contemporary, highly robust and optically refined LED bollard with an abundance of unique features

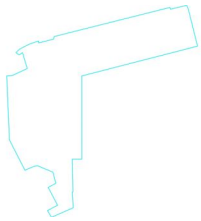
Contained within the IP66, IK10 head unit, custom designed, high performance optics direct the light exactly where it is needed. A dedicated lens for each LED ensures the most efficient distribution of light resulting in highly impressive luminaire spacings whilst still maintaining uniformity.

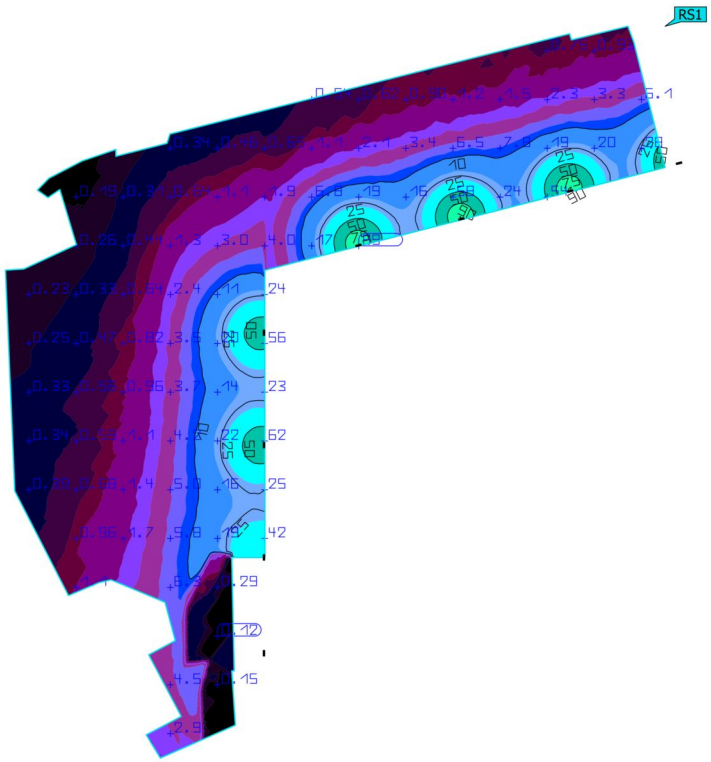
A choice of two distribution options are available. The area distribution provides 360° light output whilst the pathway distribution gives 180°. All versions have less than 2% upward light component making Passway suitable for rural as well as urban environments.

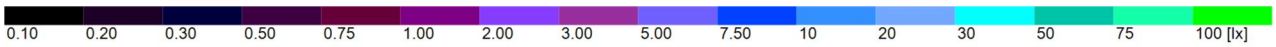
DIALux

70 Great Bridgewater (Light scene 1)

Canal walkway (Canal & East Elevation)







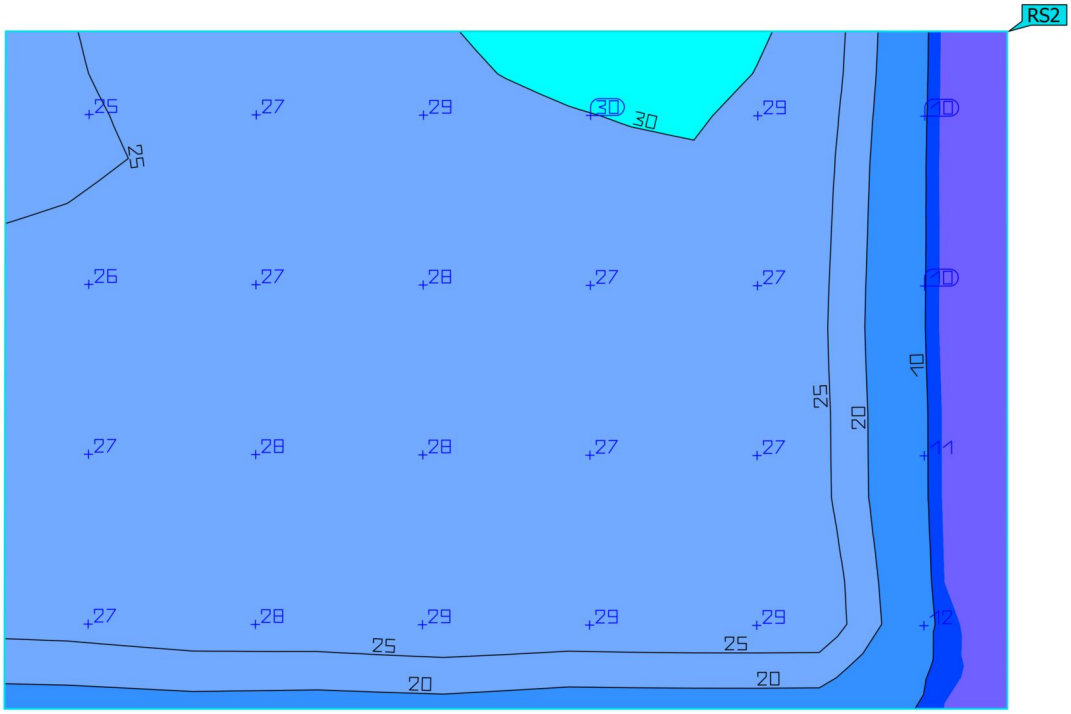
Properties	Ē	E_{min}	E_{max}	g_1	g_2	Index
Canal walkway (Canal & East Elevation) Perpendicular illuminance (adaptive) Height: 2.190 m	7.98 lx	0.026 lx	90.2 lx	0.003	0.000	RS1

Utilisation profile: DIALux presetting (5.1.4 Standard (outdoor transportation area))

DIALux

70 Great Bridgewater (Light scene 1)

Stair way (East Elevation)



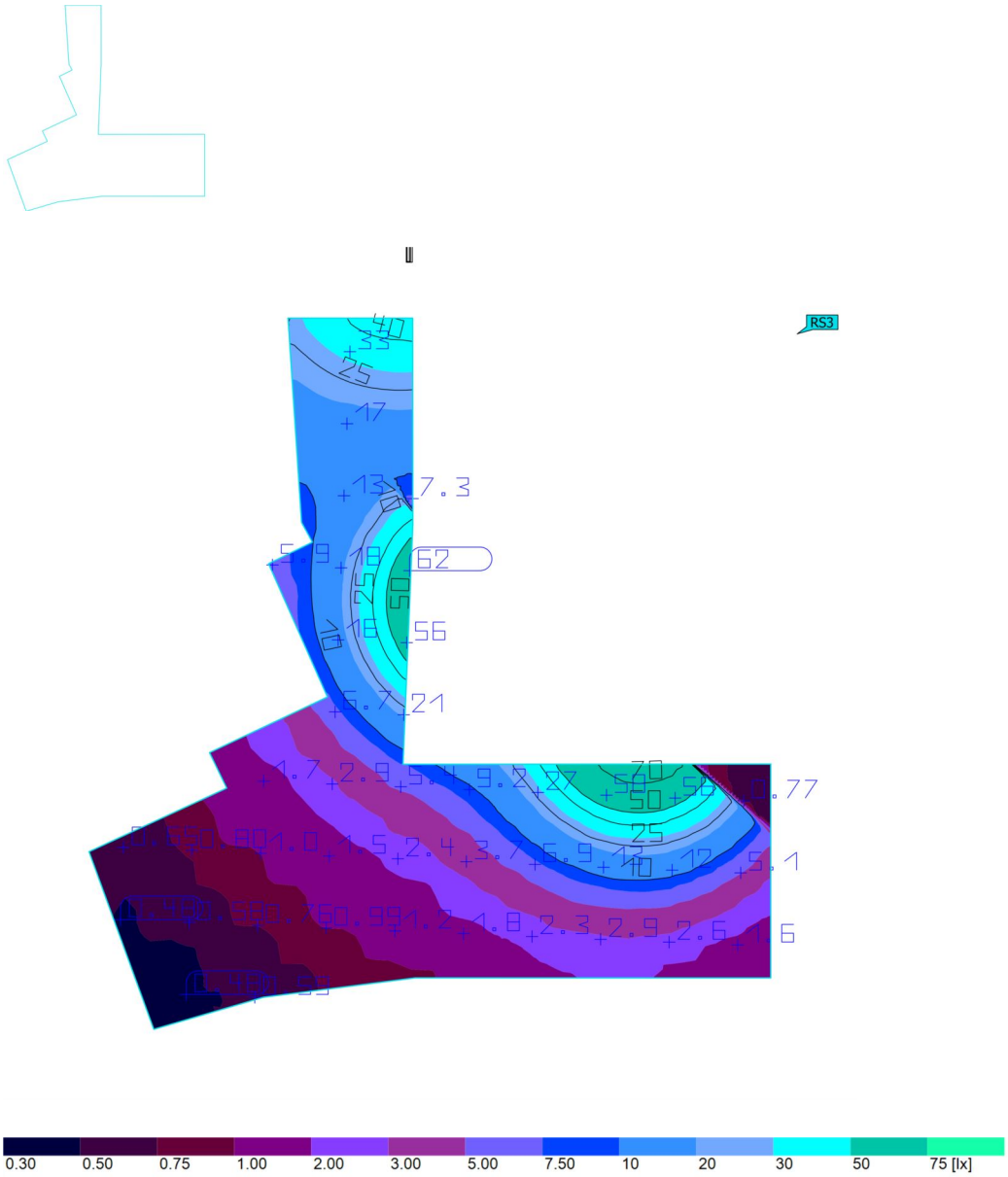
Properties	Ē	E_{min}	E_{max}	g_1	g_2	Index
Stair way (East Elevation) Perpendicular illuminance (adaptive) Height: 3.633 m	24.5 lx	4.84 lx	30.7 lx	0.20	0.16	RS2

Utilisation profile: DIALux presetting (5.1.4 Standard (outdoor transportation area))

DIALux

70 Great Bridgewater (Light scene 1)

Pedestrian Walkway Corner (East Elevation)



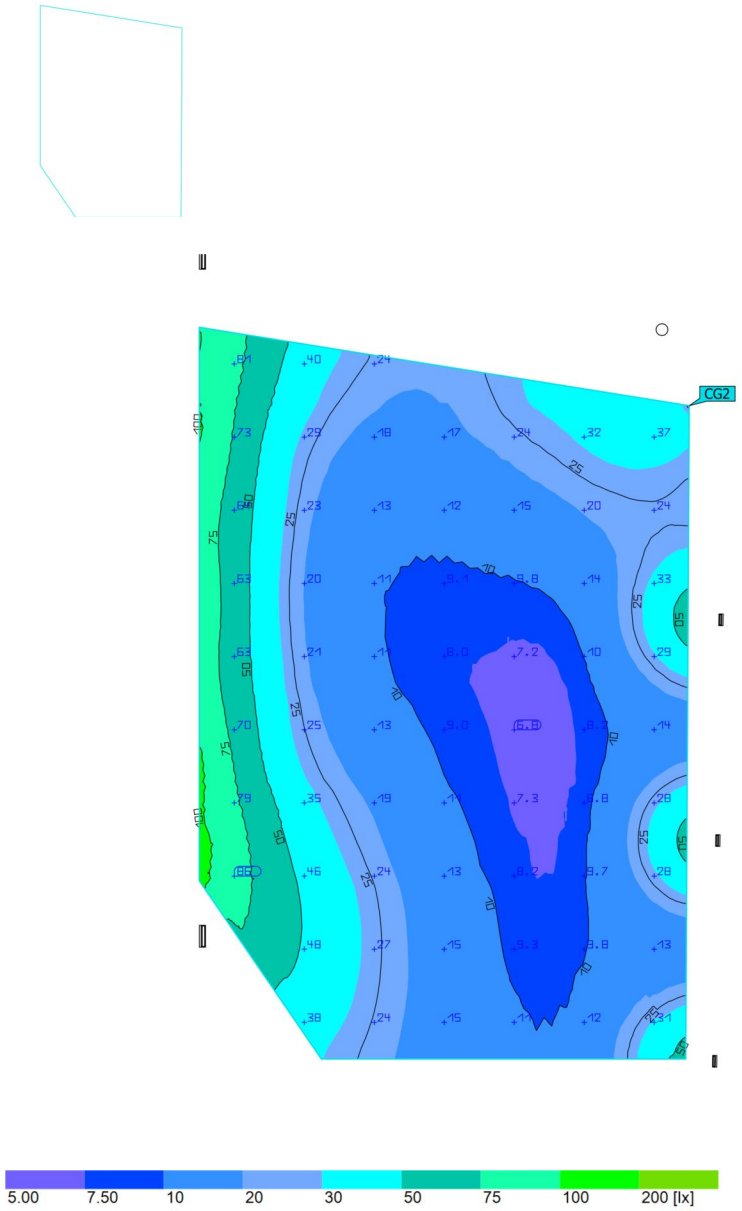
Properties	Ē	E_{min}	E_{max}	g_1	g_2	Index
Pedestrian Walkway Corner (East Elevation) Perpendicular illuminance (adaptive) Height: 5.000 m	11.0 lx	0.46 lx	74.9 lx	0.042	0.006	RS3

Utilisation profile: DIALux presetting (5.1.4 Standard (outdoor transportation area))

DIALux

70 Great Bridgewater (Light scene 1)

Car Park Entrance



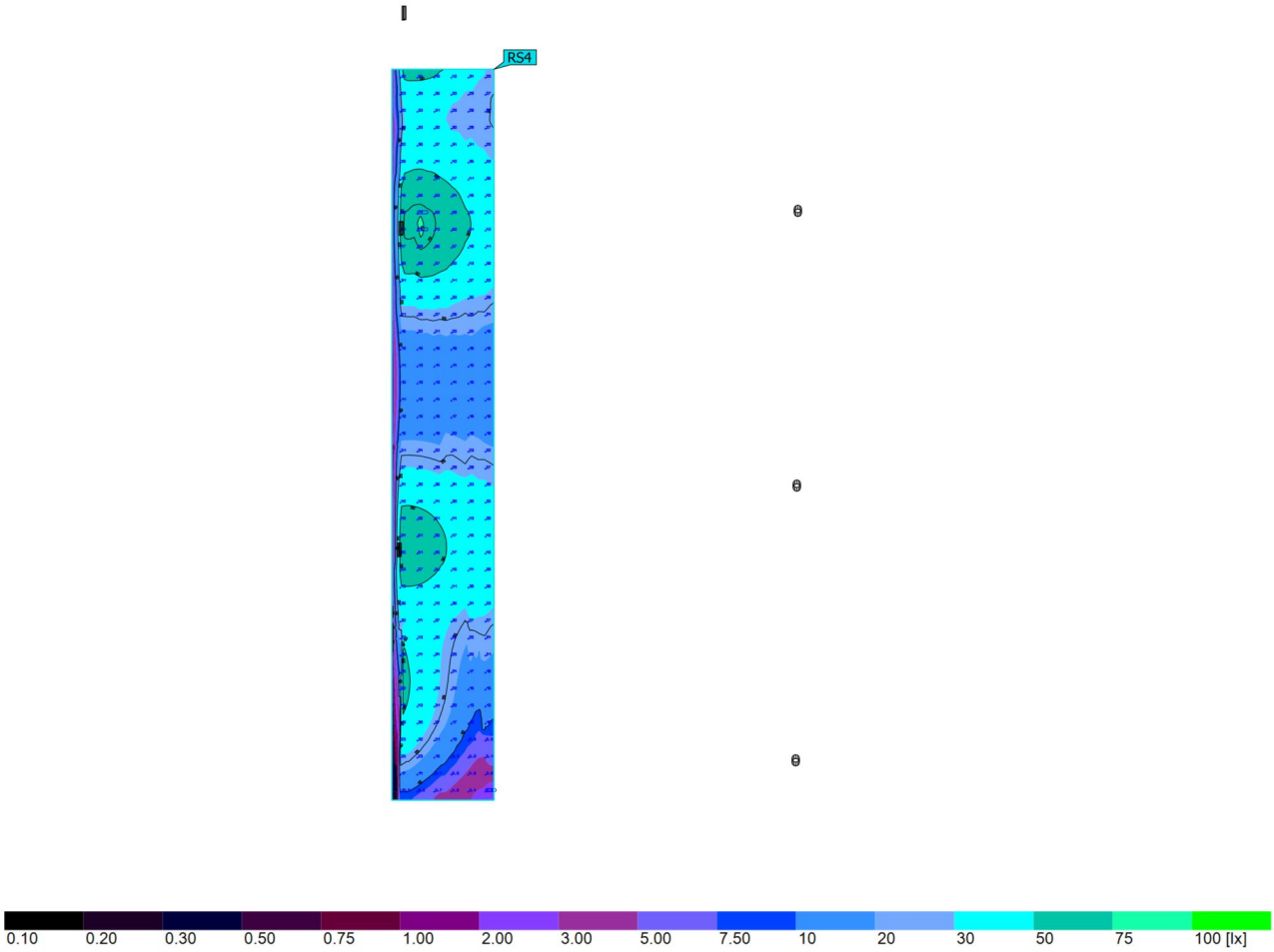
Properties	Ē	E_{min}	E_{max}	g_1	g_2	Index
Car Park Entrance Perpendicular illuminance (adaptive) Height: 0.000 m	26.1 lx	6.44 lx	104 lx	0.25	0.062	CG2

Utilisation profile: DIALux presetting (5.1.4 Standard (outdoor transportation area))

DIALux

70 Great Bridgewater (Light scene 1)

Pedestrian Walkway (West Elevation)



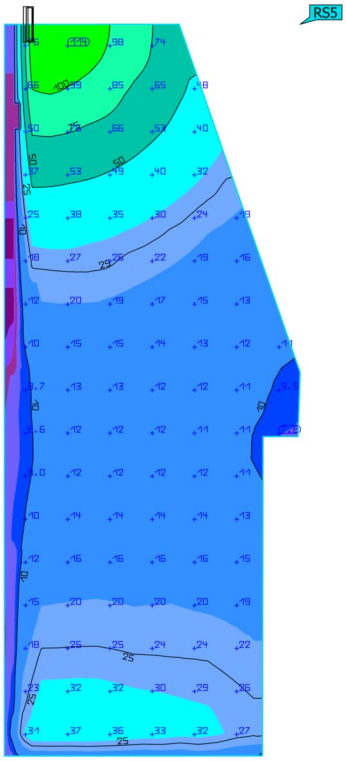
Properties	Ē	E_{min}	E_{max}	g_1	g_2	Index
Pedestrian Walkway (West Elevation) Perpendicular illuminance (adaptive) Height: 3.104 m	30.6 lx	0.067 lx	75.0 lx	0.002	0.001	RS4

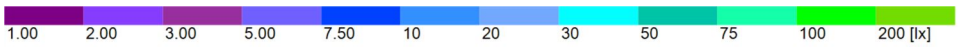
Utilisation profile: DIALux presetting (5.1.4 Standard (outdoor transportation area))

DIALux

70 Great Bridgewater (Light scene 1)

Substation Entrance (West Elevation)





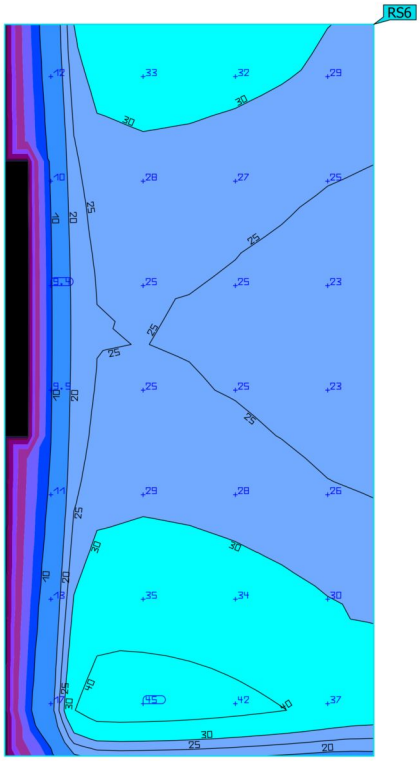
Properties	Ē	E_{min}	E_{max}	g_1	g_2	Index
Substation Entrance (West Elevation) Perpendicular illuminance (adaptive) Height: 1.285 m	26.5 lx	1.72 lx	118 lx	0.065	0.015	RS5

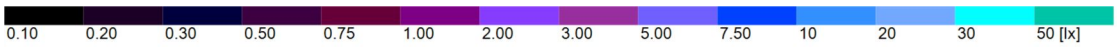
Utilisation profile: DIALux presetting (5.1.4 Standard (outdoor transportation area))

DIALux

70 Great Bridgewater (Light scene 1)

Bin Store Entrance (West Elevation)





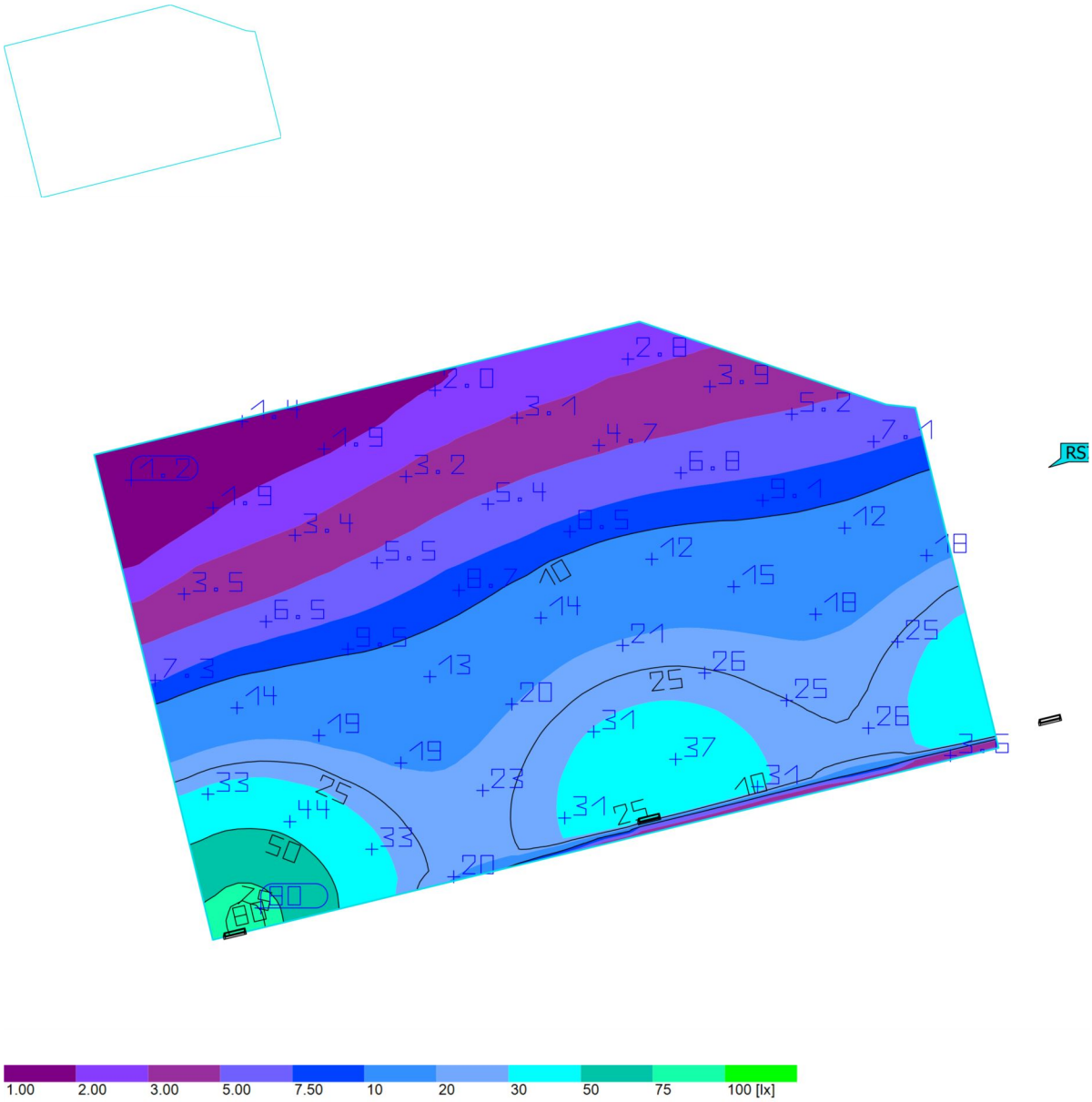
Properties	Ē	E_{min}	E_{max}	g_1	g_2	Index
Bin Store Entrance (West Elevation) Perpendicular illuminance (adaptive) Height: 0.295 m	25.1 lx	0.059 lx	44.7 lx	0.002	0.001	RS6

Utilisation profile: DIALux presetting (5.1.4 Standard (outdoor transportation area))

DIALux

70 Great Bridgewater (Light scene 1)

Canal Walkway Ramp (Canal Elevation)



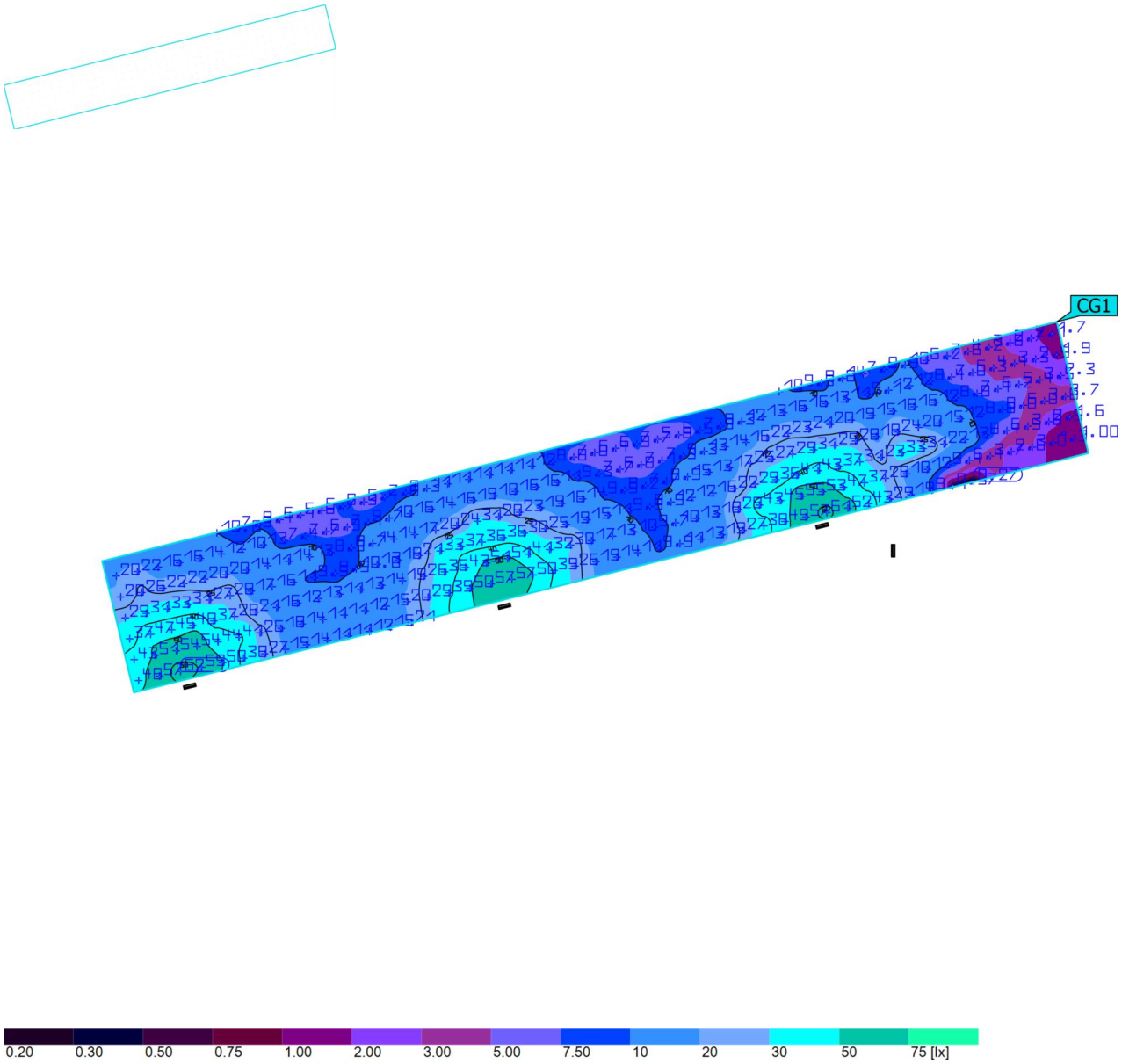
Properties	Ē	E_{min}	E_{max}	g_1	g_2	Index
Canal Walkway Ramp (Canal Elevation) Perpendicular illuminance (adaptive) Height: 0.854 m	16.0 lx	1.14 lx	81.9 lx	0.071	0.014	RS7

Utilisation profile: DIALux presetting (5.1.4 Standard (outdoor transportation area))

DIALux

70 Great Bridgewater (Light scene 1)

Canal Walkway (Canal Elevation)



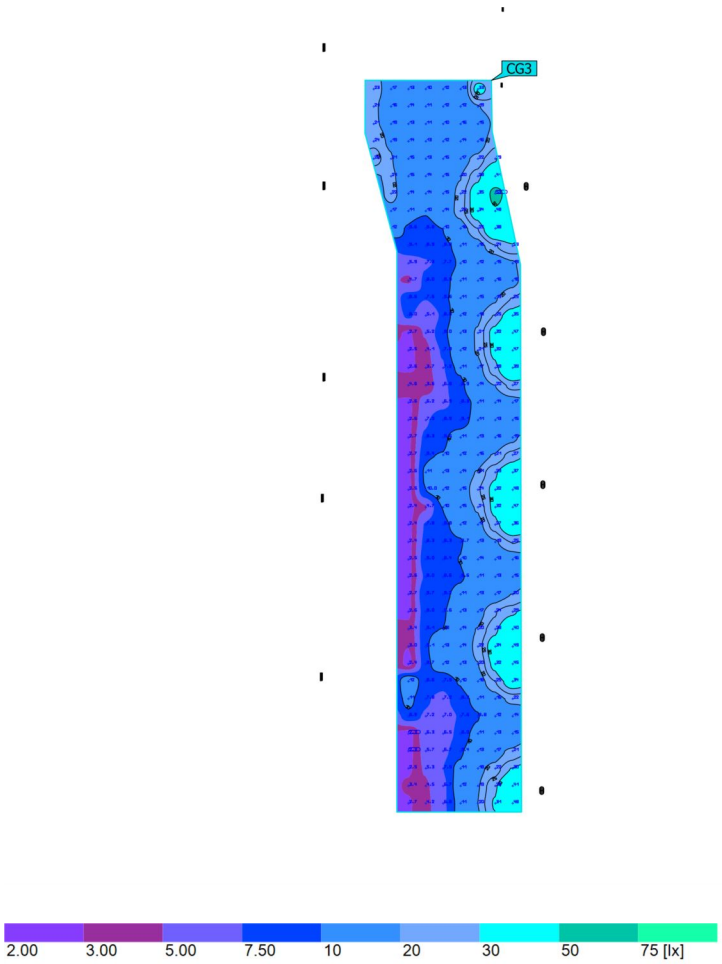
Properties	Ē	E_{min}	E_{max}	g_1	g_2	Index
Canal Walkway (Canal Elevation) Perpendicular illuminance Height: 0.000 m	19.2 lx	0.27 lx	62.3 lx	0.014	0.004	CG1

Utilisation profile: DIALux presetting (5.1.4 Standard (outdoor transportation area))

DIALux

70 Great Bridgewater (Light scene 1)

Car Park Ramp



Properties	Ē	E_{min}	E_{max}	g_1	g_2	Index
Car Park Ramp Perpendicular illuminance Height: 1.267 m	15.3 lx	2.33 lx	53.5 lx	0.15	0.044	CG3

Utilisation profile: DIALux presetting (5.1.4 Standard (outdoor transportation area))