RELUX
light simulation tools

Royston Labels

Installation : Sign 3

Project number :
Customer : Halsall
Processed by : A.Crampton
Date : 14.01.2018

The following values are based on exact calculations on calibrated lamps, luminaires and their arrangement. In practice, gradual divergences can occur.

Guarantee claims for luminaire data are excluded.

Relux and the luminaire manufacturers accept no liability for consequential damage and damage which is occasioned to the user or to third parties.

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Luminaire data

Eaton (Cooper), EATON - GALAXY LED (GLL105KZ)

Data sheet

Manufacturer: Eaton (Cooper)

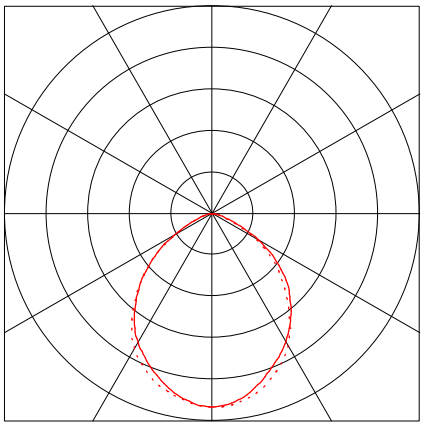
GLL105KZ wall-mounted luminaire EATON - GALAXY LED
Die cast aluminium LED floodlight, with symmetrical reflector and toughened safety glass. Finished in hard wearing black paint finish.
Complete with 1.5M three core lead.
5000°k LED.
IP65

Luminaire data

Absolute Photometry		
Luminaire efficacy	:	91.8 lm/W
Classification	:	A50 ↓100.0% ↑0.0%
CIE Flux Codes	:	58 90 99 100 100
UGR 4H 8H	:	25.4 / 24.7
Control gear	:	electronic ballast
Power	:	10 W
Luminous flux	:	918 lm
Dimensions	:	197 mm x 172 mm x 59 mm

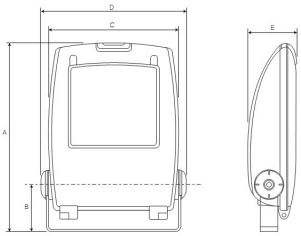
Equipped with

Quantity	:	1
Designation	:	LED
Colour	:	





Dimensions



	A	B	C	D	E
GLL105KZ (10W)	220	83	147	172	55
GLL105KZPIR (10W + PIR)	220	83	147	172	106
GLL305KZ (30W)	314	78	218	243	80
GLL305KZPIR (30W + PIR)	314	78	218	243	131
GLL505KZ (50W)	395	103	291	321	106
GLL1005KZ (100W)	456	119	336	380	112
GLL2005KZ (200W)	620	195	432	482	158

-please put your own address here-

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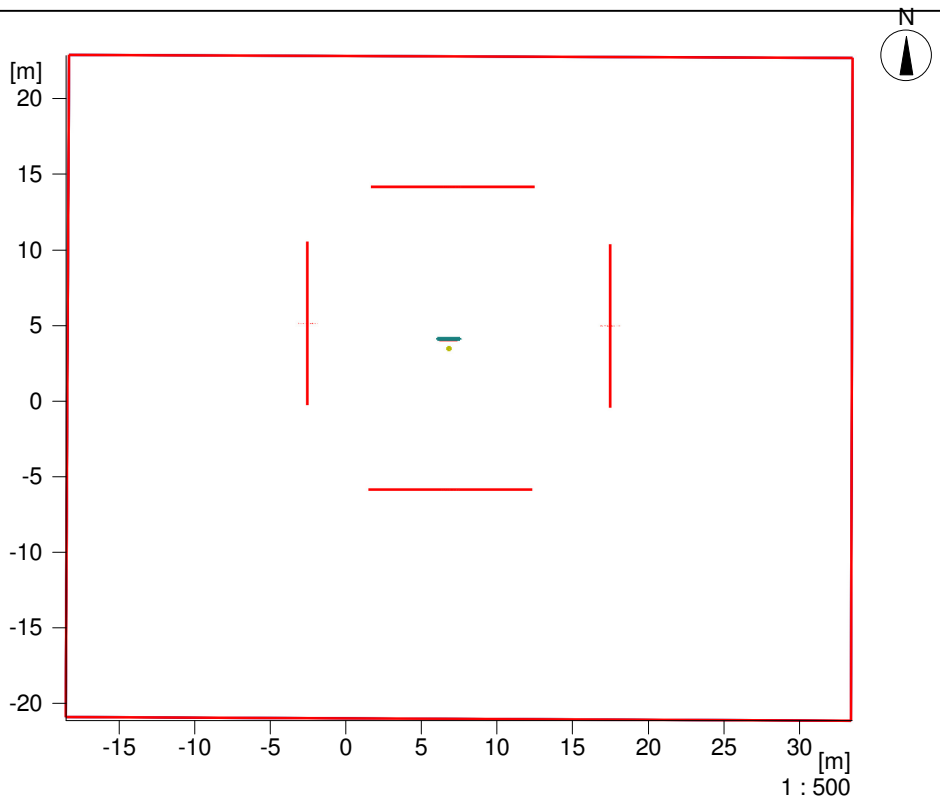
Exterior 1

Description, Exterior 1

Floor plan



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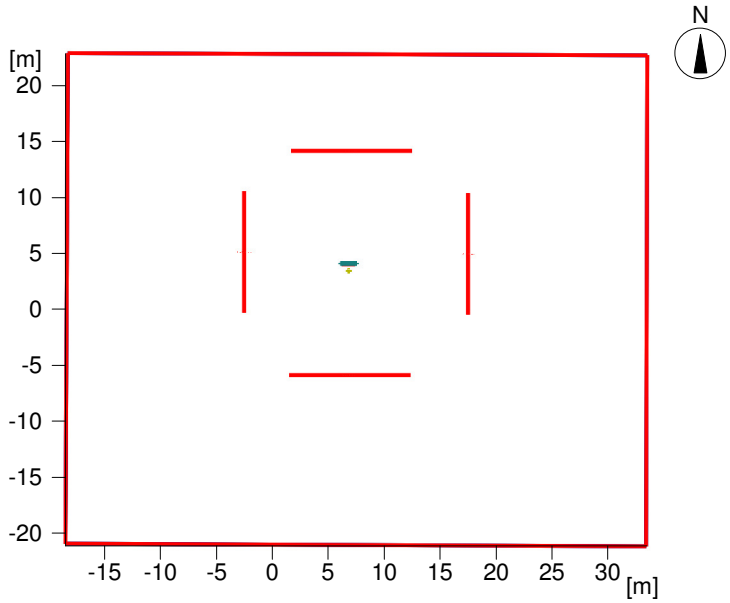
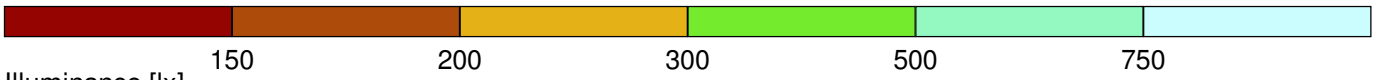
Exterior 1

Summary, Exterior 1

Result overview, Sign Face





Illuminance [lx]

General

Calculation algorithm used	Average indirect fraction
photometric centre height. [m]:	2.98 m
Maintenance factor	0.80
Total luminous flux of all lamps	918 lm
Total power	10 W
Total power per area (2267.26 m²)	0.00 W/m²

Illuminance

Average illuminance	Eav	265 lx
Minimum illuminance	Emin	126 lx
Maximum illuminance	Emax	519 lx
Uniformity Uo	Emin/Em	1:2.1 (0.48)
Diversity Ud	Emin/Emax	1:4.11 (0.24)

Type No.\Make

		Eaton (Cooper)	
1	1	Order No.	: GLL105KZ/
		Luminaire name	: EATON - GALAXY LED
		Equipment	: 1 x LED 10 W / 918 lm

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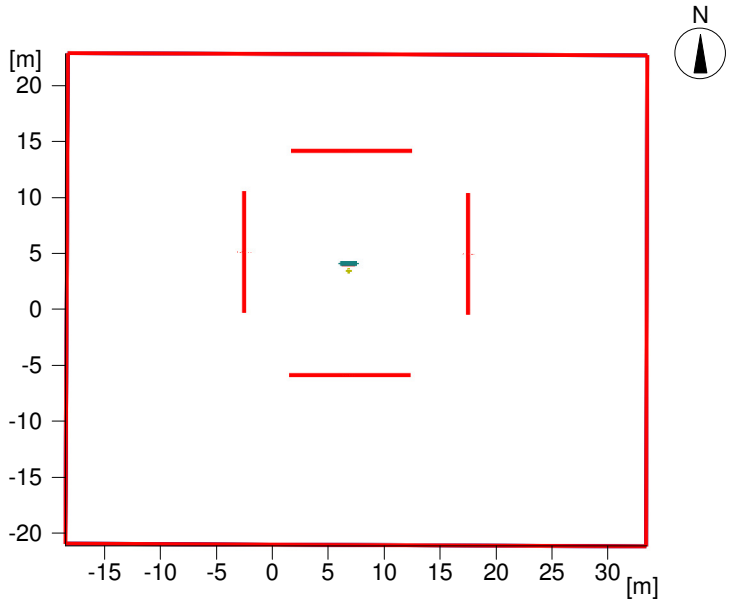
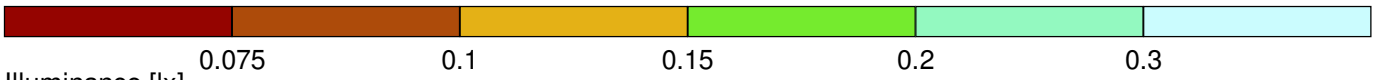
Summary, Exterior 1

Result overview, 10m Vertical Illuminance





Illuminance [lx]

General

Calculation algorithm used	Average indirect fraction
photometric centre height. [m]:	2.98 m
Maintenance factor	0.80
Total luminous flux of all lamps	918 lm
Total power	10 W
Total power per area (2267.26 m²)	0.00 W/m²

Illuminance

Average illuminance	Eav	0.17 lx
Minimum illuminance	Emin	0.09 lx
Maximum illuminance	Emax	0.23 lx
Uniformity Uo	Emin/Em	1:1.89 (0.53)
Diversity Ud	Emin/Emax	1:2.54 (0.39)

Type No.\Make

		Eaton (Cooper)	
1	1	Order No.	: GLL105KZ/
		Luminaire name	: EATON - GALAXY LED
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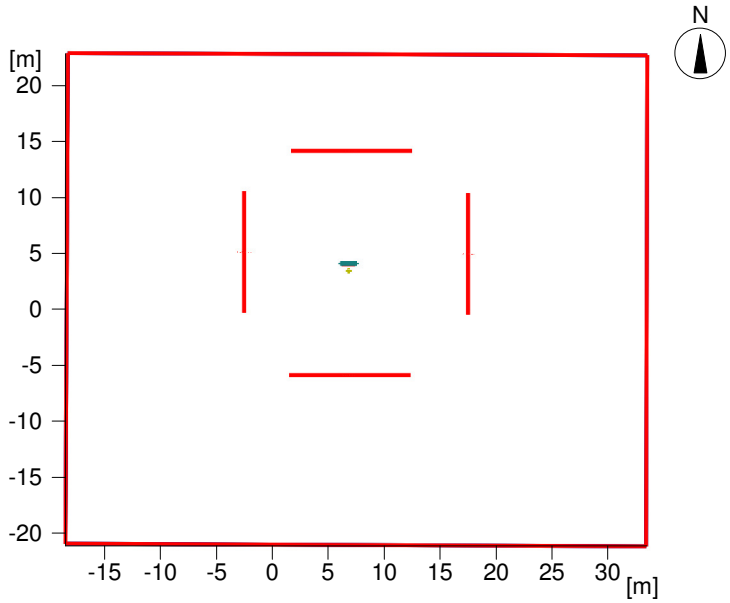

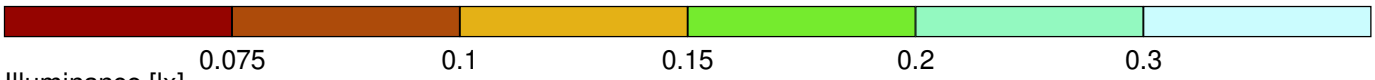

Illuminance [lx]

General

Calculation algorithm used	Average indirect fraction
photometric centre height. [m]:	2.98 m
Maintenance factor	0.80
Total luminous flux of all lamps	918 lm
Total power	10 W
Total power per area (2267.26 m²)	0.00 W/m²

Illuminance

Average illuminance	Eav	0.14 lx
Minimum illuminance	Emin	0.05 lx
Maximum illuminance	Emax	0.44 lx
Uniformity Uo	Emin/Em	1:2.62 (0.38)
Diversity Ud	Emin/Emax	1:8.56 (0.12)

Type No.\Make

		Eaton (Cooper)	
1	1	Order No.	: GLL105KZ/
		Luminaire name	: EATON - GALAXY LED
		Equipment	: 1 x LED 10 W / 918 lm

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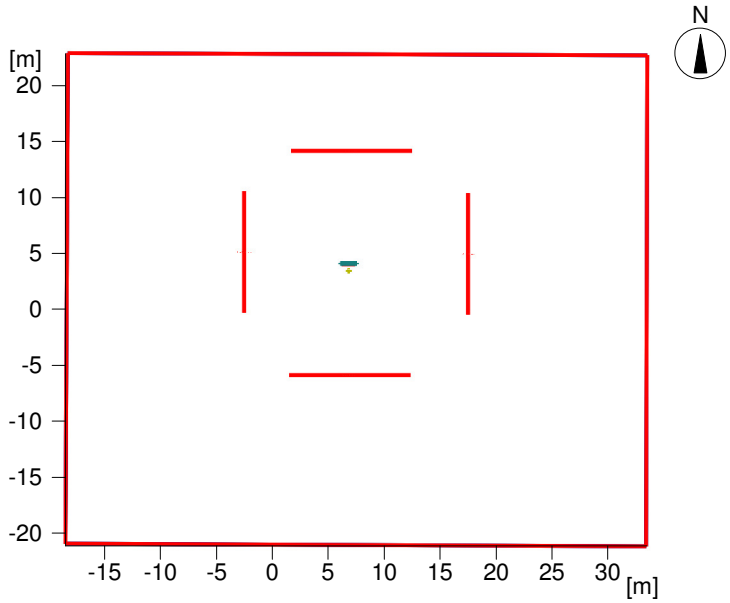
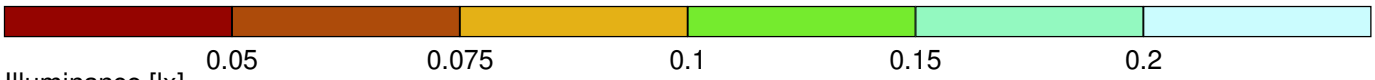
Result overview, 10m Vertical Illuminance





Illuminance [lx]

General

Calculation algorithm used	Average indirect fraction
photometric centre height. [m]:	2.98 m
Maintenance factor	0.80
Total luminous flux of all lamps	918 lm
Total power	10 W
Total power per area (2267.26 m²)	0.00 W/m²

Illuminance

Average illuminance	Eav	0.09 lx
Minimum illuminance	Emin	0.04 lx
Maximum illuminance	Emax	0.28 lx
Uniformity Uo	Emin/Em	1:2.14 (0.47)
Diversity Ud	Emin/Emax	1:6.57 (0.15)

Type No.\Make

		Eaton (Cooper)	
1	1	Order No.	: GLL105KZ/
		Luminaire name	: EATON - GALAXY LED
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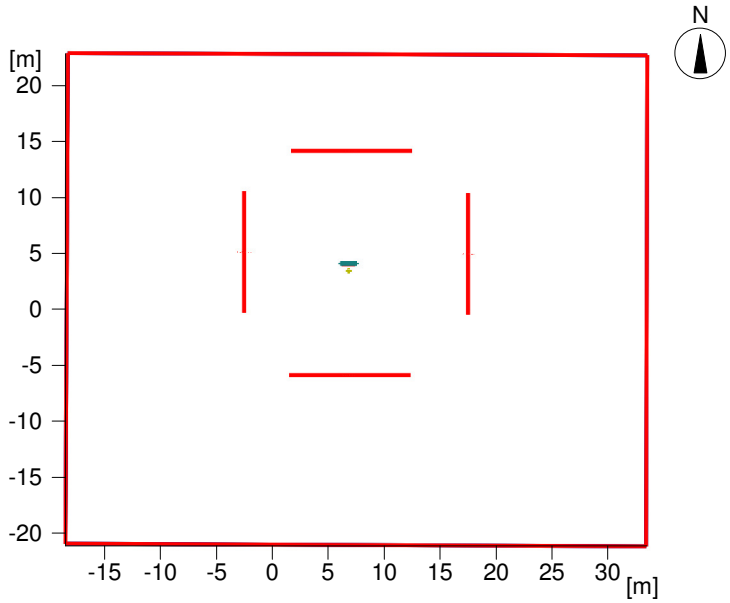
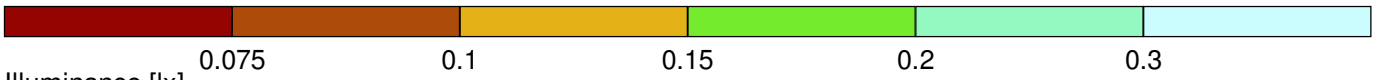
Result overview, 10m Vertical Illuminance





General

Calculation algorithm used	Average indirect fraction
photometric centre height. [m]:	2.98 m
Maintenance factor	0.80
Total luminous flux of all lamps	918 lm
Total power	10 W
Total power per area (2267.26 m²)	0.00 W/m²

Illuminance

Average illuminance	Eav	0.16 lx
Minimum illuminance	Emin	0 lx
Maximum illuminance	Emax	0.62 lx
Uniformity Uo	Emin/Em	1:34.8 (0.03)
Diversity Ud	Emin/Emax	1:130 (0.01)

Type No.\Make

		Eaton (Cooper)	
1	1	Order No.	: GLL105KZ/
		Luminaire name	: EATON - GALAXY LED
		Equipment	: 1 x LED 10 W / 918 lm

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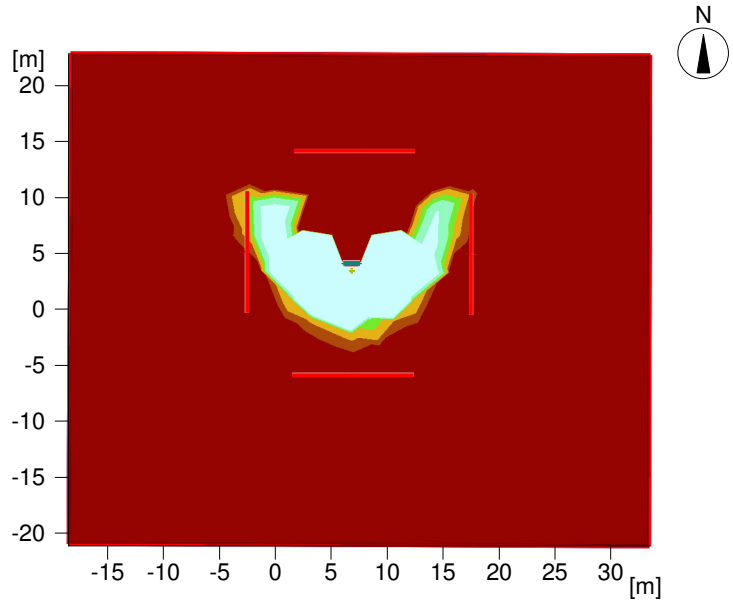
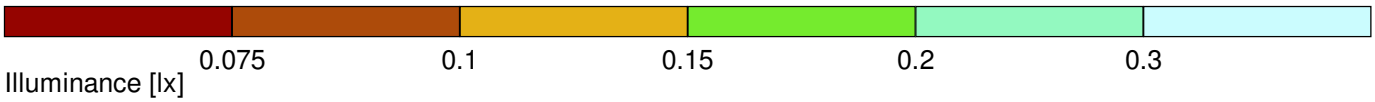
Summary, Exterior 1

Result overview, Evaluation area 1





General

Calculation algorithm used	Average indirect fraction
photometric centre height.	2.98 m
Maintenance factor	0.80
Total luminous flux of all lamps	918 lm
Total power	10.0 W
Total power per area (2267.26 m²)	0.00 W/m² (2.91 W/m²/100lx)

Evaluation area 1	**Reference plane 1.1**
	Horizontal
Em	0.15 lx
Emin	0 lx
Emin/Eav (Uo)	---
Emin/Emax (Ud)	---
Position	0.00 m

Type No.\Make

		Eaton (Cooper)	
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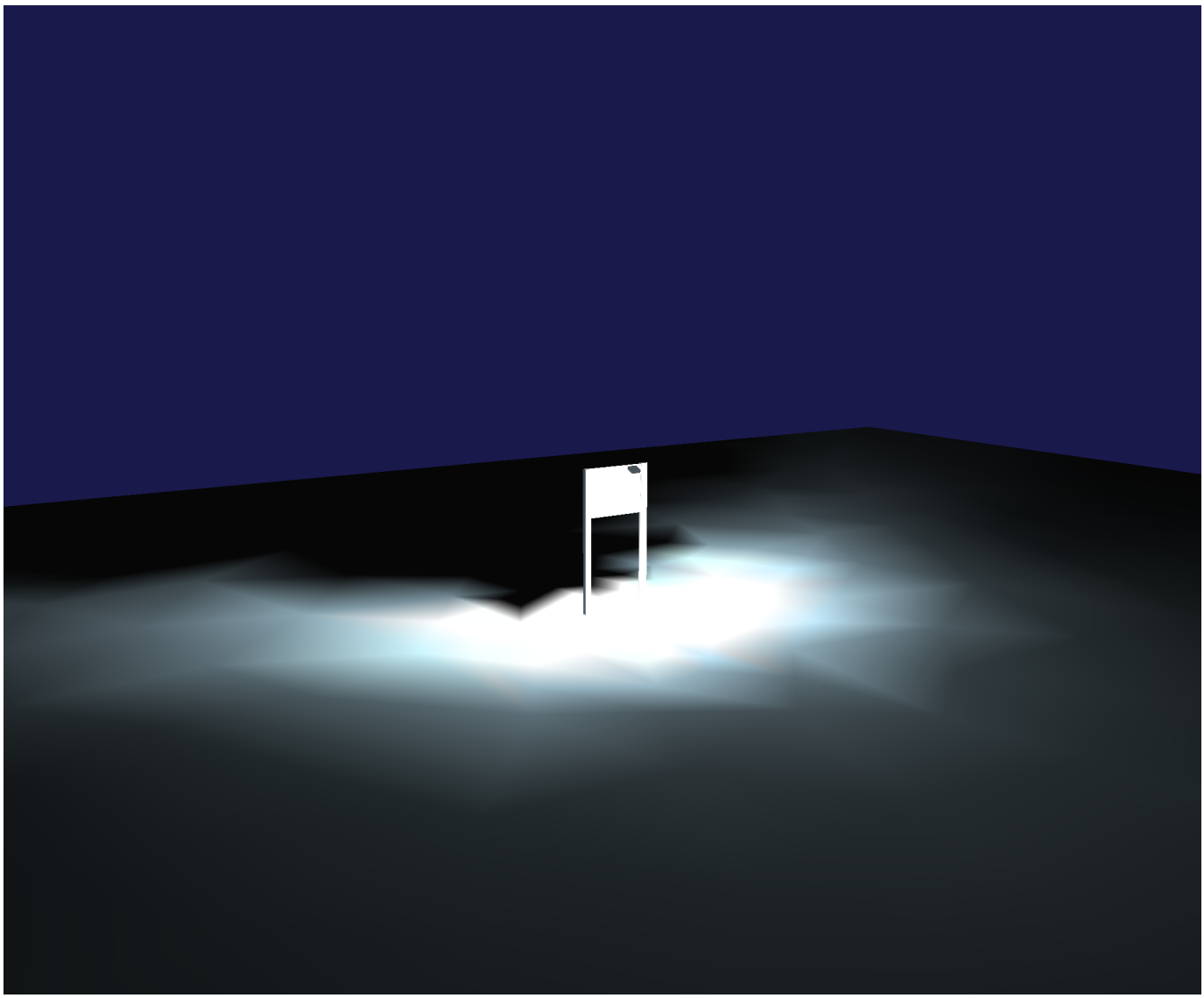
Exterior 1

Calculation results, Exterior 1

3D luminance, View 1



Luminance in the scene
Minimum: : 0 cd/m²
Maximum: : 18.8 cd/m²