

Installation : ext

Project number : 28/038

Customer :

Processed by : James McDowell

Date : 13.06.2025

Object :
Installation : ext
Project number : 28/038
Date : 13.06.2025

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1 Luminaire data

1.1 Ansell, AGAB1/1 (Gabbro Streetlight)

1.1.1 Data sheet

Manufacturer: Ansell

Gabbro Streetlight AGAB1/1

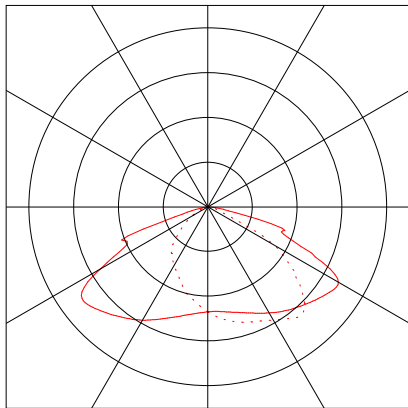
Luminaire data

Absolute Photometry
Luminaire efficacy : 132.87 lm/W
Classification : A30 ↓100% ↑0%
CIE Flux Codes : 39 77 98 100 100
UGR 4H 8H : 33.4 / 21.0
Power : 21.6 W
Luminous flux : 2868.2 lm

Equipped with

Quantity : 1
Designation : 3030led
Colour : 3000K
Colour reproduction : 70

Dimensions : 568 mm x 200 mm x 109 mm



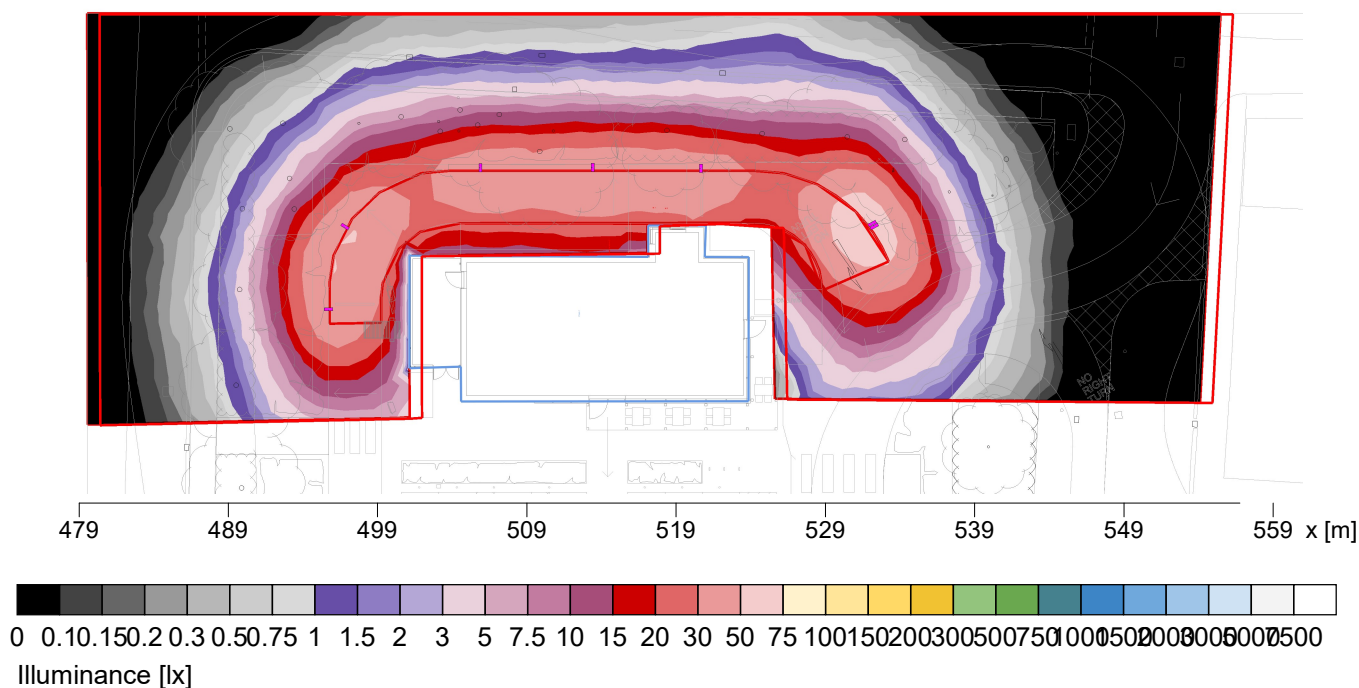
Object :
Installation : ext
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2 Exterior 1

2.1 Summary, Exterior 1, Light scene 1(C)

2.1.1 Result overview, Measuring area 1



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
Height (phot centre) [m]:	3.95 m
Maintenance factor	0.80
Total luminous flux	20090 lm
Total power	151.2 W
Total power per area (151.75 m ²)	1.00 W/m ²

Illuminance

Average illuminance	$\bar{E}_m$	8.5 lx
Minimum illuminance	E_{min}	0 lx
Maximum illuminance	E_{max}	67.4 lx
Uniformity U_0	$E_{min}/\bar{E}_m$	1:2620 (0)
Diversity U_d	E_{min}/E_{max}	1:20800 (0)

Type No. Make

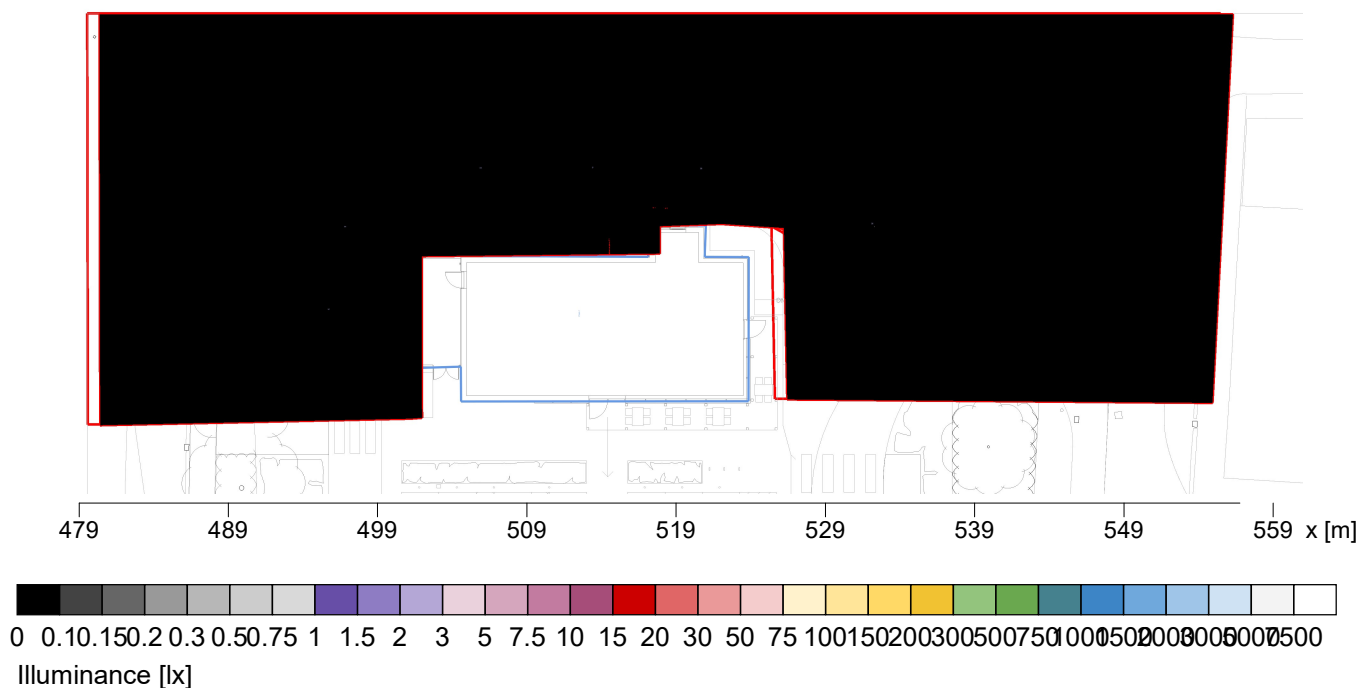
2	7 x	Ansell	
		Order No.	: Gabbro Streetlight
		Luminaire name	: AGAB1/1
		Equipment	: 1 x 3030led 21.6 W / 2870 lm

Object :
Installation : ext
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2.1 Summary, Exterior 1, Light scene 1(C)

2.1.2 Result overview, Measuring area 2



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	5.00 m
Height (phot centre) [m]:	3.95 m
Maintenance factor	0.80

Total luminous flux	20090 lm
Total power	151.2 W
Total power per area (151.75 m ²)	1.00 W/m ²

Illuminance

Average illuminance	$\bar{E}_m$	0 lx
Minimum illuminance	E_{min}	0 lx
Maximum illuminance	E_{max}	0 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	1:--- (---)
Diversity U_d	E_{min}/E_{max}	1:--- (---)

Type No. Make

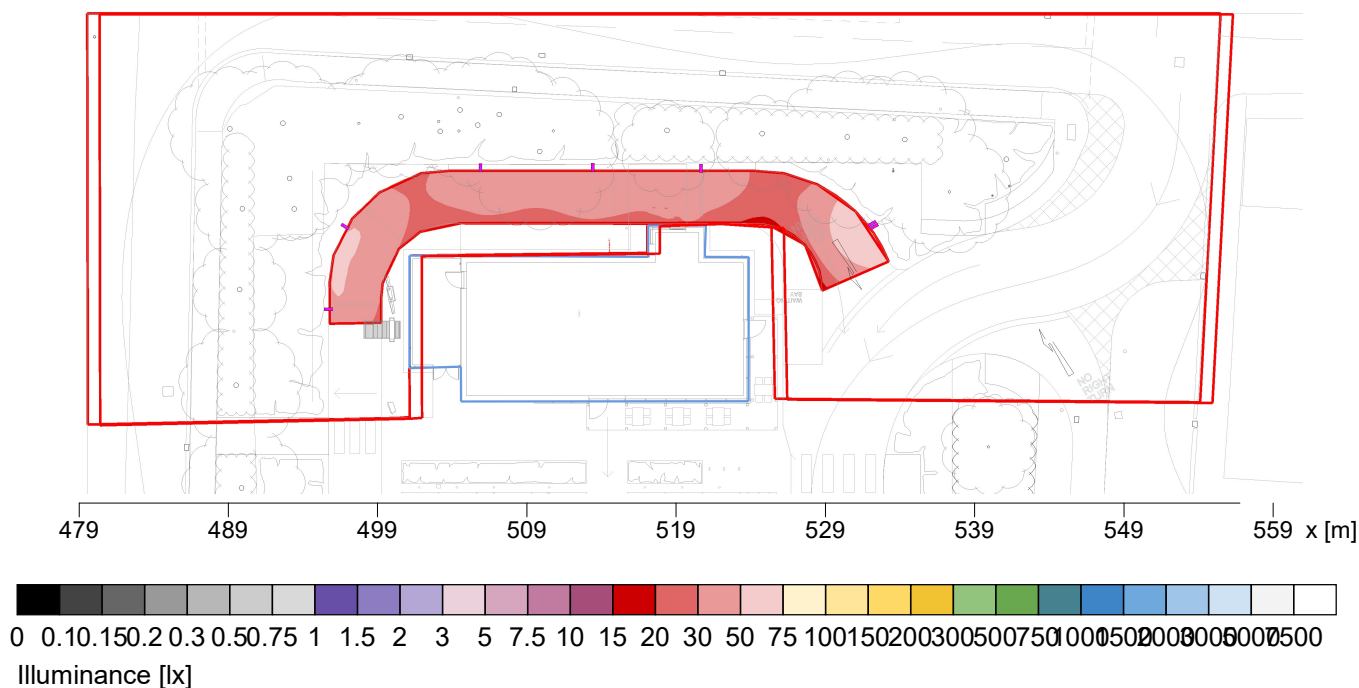
2	7 x	Ansell	
		Order No.	: Gabbro Streetlight
		Luminaire name	: AGAB1/1
		Equipment	: 1 x 3030led 21.6 W / 2870 lm

Object :
Installation : ext
Project number : 28/038
Date : 13.06.2025

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2.1 Summary, Exterior 1, Light scene 1(C)

2.1.3 Result overview, Evaluation area 1



General

Calculation algorithm used
Height (phot. centre)
Maintenance factor

Average indirect fraction
3.95 m
0.80

Total lamp luminous flux
Luminaire luminous flux
Total power
Total power per area (151.18 m²)

14350.00 lm
14340.94 lm
108.0 W
0.71 W/m² (1.93 W/m²/100lx)

Evaluation area 1

Reference plane 1.1

Horizontal
 $\bar{E}_m$
 E_{min}
 $E_{min}/\bar{E}_m (U_o)$
 $E_{min}/E_{max} (U_d)$
Position

37 lx
16.7 lx
0.45
0.23
0.00 m

Type No. \ Make

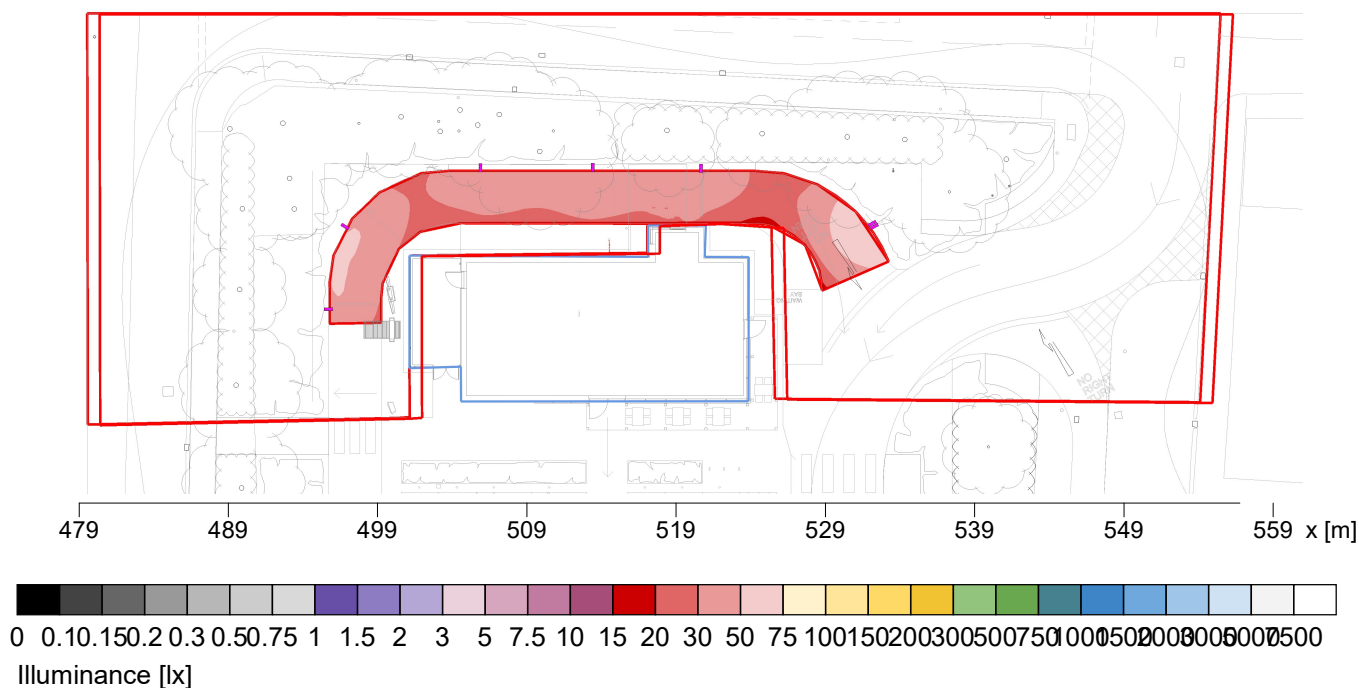
2 5 x
Ansell
Order No. : Gabbro Streetlight
Luminaire name : AGAB1/1
Equipment : 1 x 3030led 21.6 W / 2870 lm

Object :
Installation : ext
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2.1 Summary, Exterior 1, Light scene 1(C)

2.1.4 Result overview, Evaluation area 2



General

Calculation algorithm used
Height (phot. centre)
Maintenance factor

Average indirect fraction
3.95 m
0.80

Total lamp luminous flux
Luminaire luminous flux
Total power
Total power per area (151.75 m²)

17220.00 lm
17209.13 lm
129.6 W
0.85 W/m² (2.30 W/m²/100lx)

Evaluation area 2

Reference plane 2.1

Horizontal
 $\bar{E}_m$ 37.2 lx
 E_{min} 16.7 lx
 $E_{min}/\bar{E}_m (U_o)$ 0.45
 $E_{min}/E_{max} (U_d)$ 0.23
Position 0.00 m

Type No. \ Make

2 6 x **Ansell**
Order No. : Gabbro Streetlight
Luminaire name : AGAB1/1
Equipment : 1 x 3030led 21.6 W / 2870 lm

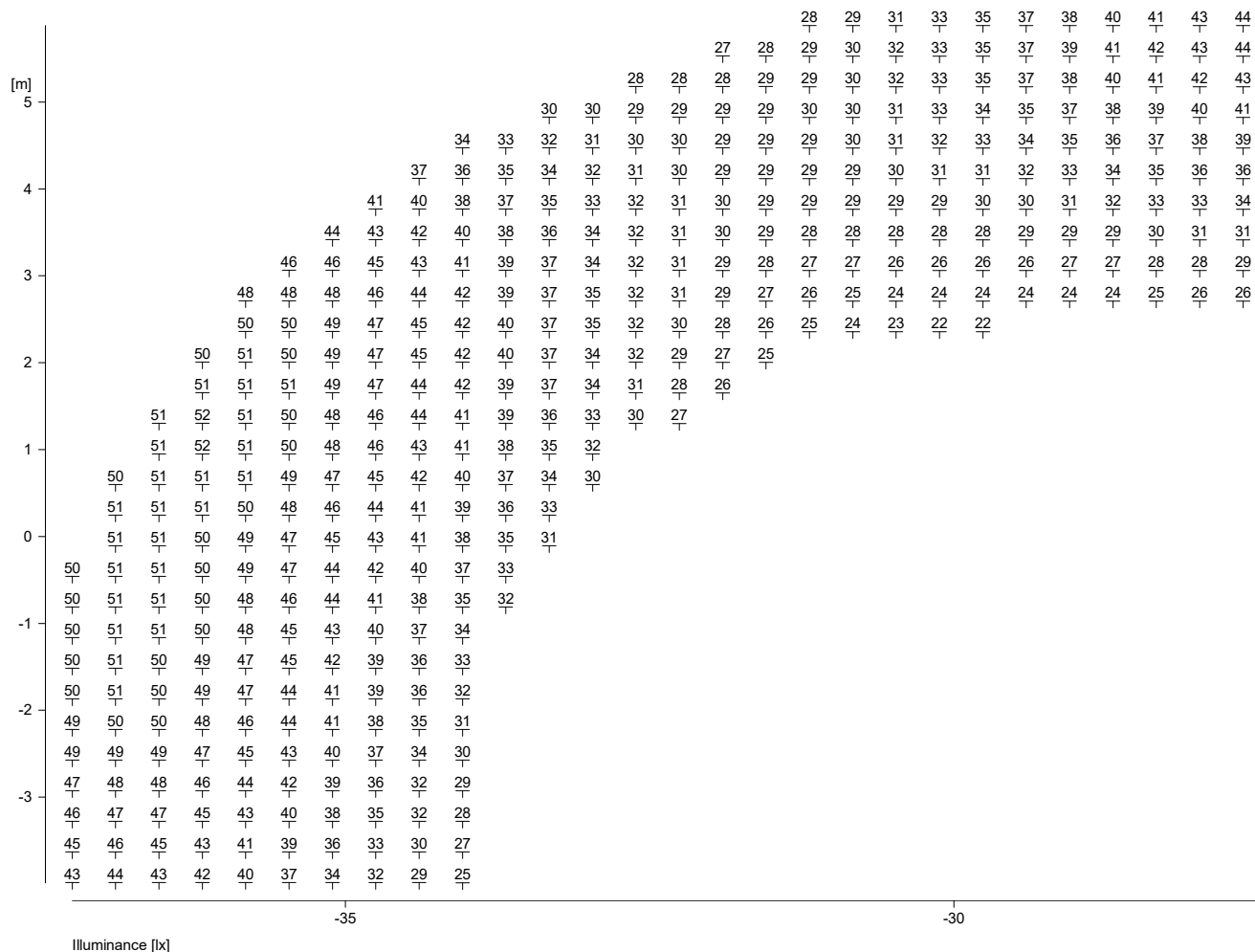
Object :
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2 Exterior 1

2.2 Calculation results, Exterior 1, Light scene 1(C)

2.2.1 Table, Reference plane 1.1 (E)



Part1

Height reference plane : 0.00 m
Average illuminance $\bar{E}_m$: 37 lx
Minimum illuminance E_{min} : 16.7 lx
Maximum illuminance E_{max} : 73 lx
Uniformity U_o $E_{min}/\bar{E}_m$: 1 : 2.21 (0.45)

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2 Exterior 1

2.2 Calculation results, Exterior 1, Light scene 1(C)

2.2.1 Table, Reference plane 1.1 (E)

44	44	45	44	44	43	41	40	39	38	38	38	38	39	40	41	42	43	44	44	45	45	45	45	45	44	43	42	41
44	45	45	44	44	43	41	40	39	38	38	38	38	39	40	41	42	43	44	45	45	46	46	45	45	44	43	42	41
44	44	44	43	43	42	41	39	38	37	37	37	37	38	39	40	42	43	44	45	45	45	45	45	44	43	42	41	40
42	42	42	42	41	40	39	38	37	36	36	36	36	37	38	39	40	41	42	43	43	43	43	43	42	42	41	40	39
39	40	40	39	39	38	37	36	36	35	35	34	35	35	36	37	38	39	40	41	41	41	41	41	40	39	39	38	37
37	37	37	37	36	36	35	34	34	33	33	33	33	34	34	35	36	37	38	38	39	39	39	38	38	37	36	36	35
35	35	35	34	34	34	33	32	32	31	31	31	31	32	32	33	34	35	35	36	36	36	36	36	35	35	34	34	33
32	32	32	32	32	31	31	30	29	29	29	29	29	30	30	31	32	33	33	34	34	34	34	34	33	33	32	31	31
30	30	30	29	29	28	28	27	27	27	27	27	27	28	28	29	30	30	31	31	32	32	32	31	31	30	30	29	29
27	27	27	26	26	26	25	25	25	25	25	25	25	25	26	26	27	28	28	29	29	29	29	29	28	27	27	27	26

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2 Exterior 1

2.2 Calculation results, Exterior 1, Light scene 1(C)

2.2.1 Table, Reference plane 1.1 (E)

40	39	39	39	39	40	41	42	42	43	43	43	43	42	42	41	39	38	36	34	32	31	29	28	27	26	25	25	
40	39	39	39	39	40	41	42	43	43	44	44	43	43	42	41	40	38	36	34	32	31	29	28	27	26	26	25	25
39	39	38	38	39	39	40	41	42	43	43	43	43	42	42	40	39	37	35	34	32	30	29	27	27	26	26	26	26
38	37	37	37	38	38	39	40	41	42	42	42	42	41	40	39	37	36	34	32	31	29	28	27	26	26	26	26	27
36	36	36	36	36	37	37	38	39	40	40	40	39	38	38	37	35	34	32	31	29	28	27	26	26	25	26	26	27
35	34	34	34	35	35	36	36	37	37	37	37	37	36	35	34	33	32	30	29	28	26	26	25	25	25	25	26	27
32	32	32	33	33	33	34	34	35	35	35	35	34	33	32	32	31	29	28	27	26	25	24	24	24	24	24	25	26
30	30	30	31	31	32	32	32	33	33	33	33	32	31	30	29	28	27	26	25	24	23	22	22	22	22	23	24	25
28	28	28	30	30	30	31	31	31	31	31	31	31	29	28	27	26	25	24	23	22	21	21	20	20	21	21	22	24
26	26	26	29	29	30	30	29	27	30	30	30	29	26	25	24	24	23	22	21	20	19.4	19.0	18.8	18.9	19.3	20.0	21	23
																									18.6	19.7	21	20

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Object :
Installation : ext
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2 Exterior 1

2.2 Calculation results, Exterior 1, Light scene 1(C)

2.2.1 Table, Reference plane 1.1 (E)

[illegible]

-5 [m]

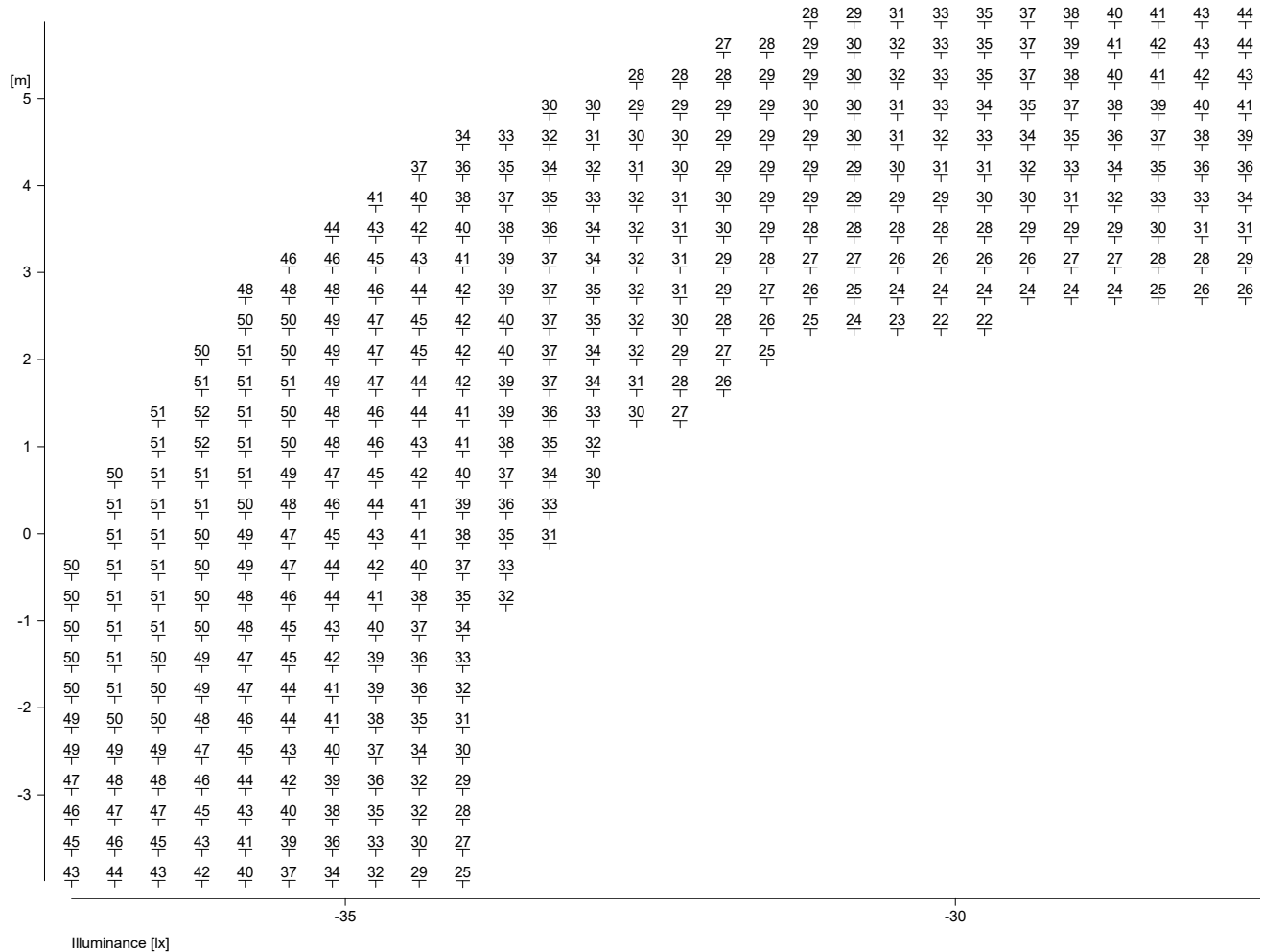


Object :
Installation : ext
Project number : 28/038
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2.2 Calculation results, Exterior 1, Light scene 1(C)

2.2.2 Table, Reference plane 2.1 (E)



Part1

Height reference plane	: 0.00 m
Average illuminance	$\bar{E}_m$: 37 lx
Minimum illuminance	E_{min} : 16.7 lx
Maximum illuminance	E_{max} : 73 lx
Uniformity U_o	$E_{min}/\bar{E}_m$: 1 : 2.22 (0.45)

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2.2 Calculation results, Exterior 1, Light scene 1(C)

2.2.2 Table, Reference plane 2.1 (E)

44	44	45	44	44	43	41	40	39	38	38	38	38	39	40	41	42	43	44	44	45	45	45	45	45	44	43	42	41
44	45	45	44	44	43	41	40	39	38	38	38	38	39	40	41	42	43	44	45	45	46	46	45	45	44	43	42	41
44	44	44	43	43	42	41	39	38	37	37	37	37	38	39	40	42	43	44	45	45	45	45	45	44	43	42	41	40
42	42	42	42	41	40	39	38	37	36	36	36	36	37	38	39	40	41	42	43	43	43	43	43	42	42	41	40	39
39	40	40	39	39	38	37	36	36	35	35	34	35	35	36	37	38	39	40	41	41	41	41	41	40	39	39	38	37
37	37	37	37	36	36	35	34	34	33	33	33	33	34	34	35	36	37	38	38	39	39	39	38	38	37	36	36	35
35	35	35	34	34	34	33	32	32	31	31	31	31	32	32	33	34	35	35	36	36	36	36	36	35	35	34	34	33
32	32	32	32	32	31	31	30	29	29	29	29	29	30	30	31	32	33	33	34	34	34	34	34	33	33	32	31	31
30	30	30	29	29	28	28	27	27	27	27	27	27	28	28	29	30	30	31	31	32	32	32	31	31	30	30	29	29
27	27	27	26	26	26	25	25	25	25	25	25	25	25	26	26	27	28	28	29	29	29	29	29	28	27	27	27	26

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2.2 Calculation results, Exterior 1, Light scene 1(C)

2.2.2 Table, Reference plane 2.1 (E)

40	39	39	39	39	40	41	42	42	43	43	43	43	42	42	41	39	38	36	34	32	31	29	28	27	26	25	25	
40	39	39	39	39	40	41	42	43	43	44	44	43	43	42	41	40	38	36	34	32	31	29	28	27	26	26	25	25
39	39	38	38	39	39	40	41	42	43	43	43	43	42	42	40	39	37	35	34	32	30	29	27	27	26	26	26	26
38	37	37	37	38	38	39	40	41	42	42	42	42	41	40	39	37	36	34	32	31	29	28	27	26	26	26	26	27
36	36	36	36	36	37	37	38	39	40	40	40	39	38	38	37	35	34	32	31	29	28	27	26	26	25	26	26	27
35	34	34	34	35	35	36	36	37	37	37	37	37	36	35	34	33	32	30	29	28	26	26	25	25	25	25	26	27
32	32	32	33	33	33	34	34	35	35	35	35	34	33	32	32	31	29	28	27	26	25	24	24	24	24	24	25	26
30	30	30	31	31	32	32	32	33	33	33	33	32	31	30	29	28	27	26	25	24	23	22	22	22	22	23	24	25
28	28	28	30	30	30	31	31	31	31	31	31	31	29	28	27	26	25	24	23	22	21	21	20	20	21	21	22	24
26	26	26	29	29	30	30	29	27	30	30	30	29	26	25	24	24	23	22	21	20	19.4	19.0	18.8	18.9	19.3	20.0	21	23
																										19.7	21	

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2.2.2 Table, Reference plane 2.1 (E)

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2.2.3 Table, Measuring area 1 (E)

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Height reference plane		: 0.00 m
Average illuminance	$\bar{E}_m$	: 8.50 lx
Minimum illuminance	E_{min}	: 0.00 lx
Maximum illuminance	E_{max}	: 67 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	: 1 : 2618.13 (0.00)

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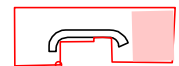
2.2 Calculation results, Exterior 1, Light scene 1(C)

2.2.3 Table, Measuring area 1 (E)

0,18	0,11	0,08	0,05	0,03	0,02	0,01	0,01	0,01	(0,00)	(0,00)
0,48	0,23	0,13	0,07	0,04	0,03	0,02	0,01	0,01	0,01	(0,00)
1,04	0,45	0,21	0,11	0,07	0,04	0,03	0,02	0,01	0,01	(0,00)
2,53	0,92	0,39	0,18	0,10	0,06	0,03	0,02	0,01	0,01	(0,00)
5,78	1,99	0,74	0,29	0,15	0,07	0,04	0,02	0,01	0,01	(0,00)
11,9	3,86	1,19	0,42	0,18	0,09	0,05	0,03	0,01	0,01	0,01
23	7,05	1,77	0,58	0,23	0,11	0,06	0,03	0,02	0,01	0,01
29	9,59	2,67	0,77	0,25	0,12	0,06	0,04	0,02	0,01	
26	11,4	3,62	0,86	0,24	0,11	0,06	0,03	0,02	0,01	
14,8	7,09	2,59	0,91	0,27	0,11	0,05	0,03	0,02	0,01	
6,71	3,42	1,51	0,64	0,25	0,09	0,05	0,03	0,02	0,01	
3,59	2,43	1,01	0,47	0,24	0,09	0,04	0,03	0,02	0,01	
2,02	1,20	0,50	0,32	0,17	0,06	0,03	0,02	0,01	0,01	

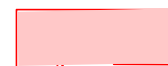
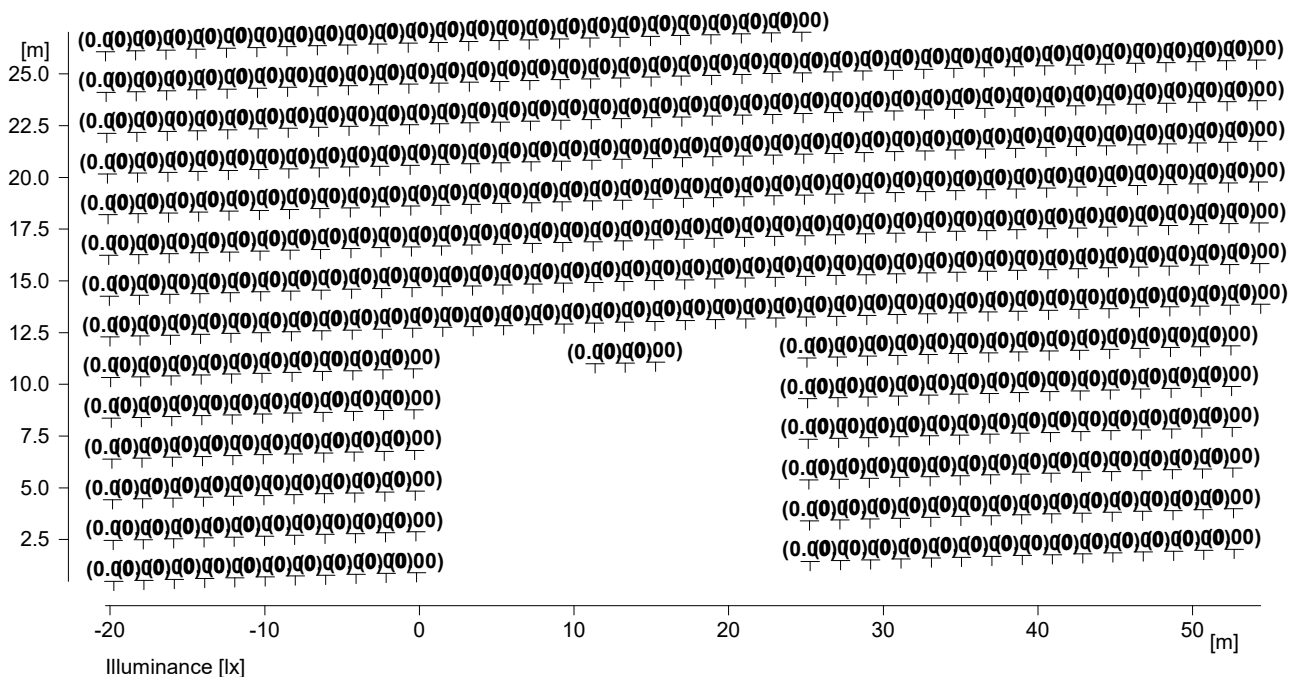
40

50 [m]



2.2 Calculation results, Exterior 1, Light scene 1(C)

2.2.4 Table, Measuring area 2 (E)



Height reference plane		: 5.00 m
Average illuminance	$\bar{E}_m$	: 0.00 lx
Minimum illuminance	E_{min}	: 0.00 lx
Maximum illuminance	E_{max}	: 0.00 lx
Uniformity U_0	$E_{min}/\bar{E}_m$	: ---