

DATE: 26 November 2025
DESIGNER: SHD Lighting Consultancy Limited
PROJECT No: SHD2326
PROJECT NAME: Glen Dimplex



CAD layout reference: 25053-1000U Site Layout_2025-10-31

Lighting classification: P4 (BS 5489-1: 2020, Table A.5)

Minimum maintained average illuminance (Eav): >5.00 lux <7.50 lux

Minimum illuminance (Emin): >1.00 lux

Lighting uniformity (Emin/Eav): >0.20 (20%)

Designed to P3, using CMS dimming to achieve class P4

Outdoor Lighting Report

PREPARED BY: SHD Lighting Consultancy Ltd
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Layout Report

General Data

Dimensions in Metres Angles in Degrees

Calculation Grids

ID	Grid Name	X	Y	X' Length	Y' Length	X' Spacing	Y' Spacing
1	Grid 1: Whole Area	347835.88	391384.44	359.30	280.35	1.50	1.50
2	Grid 2: Lighting Class P4	347838.26	391544.11	27.00	120.00	1.50	1.50
3	Grid 3: Lighting Class P4	347882.67	391588.83	289.00	30.00	1.50	1.50
4	Grid 4: Lighting Class P4	347860.19	391531.54	289.00	30.00	1.50	1.50
5	Grid 5: Lighting Class P4	348116.60	391409.11	27.00	120.00	1.50	1.50
6	Grid 6: Lighting Class P4	347998.32	391613.37	150.00	30.00	1.50	1.50

Luminaires

Luminaire A Data

Supplier	Knowsley Council
Type	[A] ISARO PRO S - 24 x WW 3000K LED CR I70 700mA - EWR Optic
Lamp(s)	LEDs
LampFlux(klm)/Colour	6.74 3000/70
File Name	A IP24L70EWR730G36_DC.LDT
Maintenance Factor	0.84
Lum. Int. Class	G3
No. in Project	20

Luminaire B Data

Supplier	Knowsley Council
Type	[A] ISARO PRO S - 24 x WW 3000K LED CR I70 700mA - EWR Optic
Lamp(s)	LEDs
LampFlux(klm)/Colour	6.74 3000/70
File Name	A IP24L70EWR730G36_DC.LDT
Maintenance Factor	0.84
Lum. Int. Class	G3
No. in Project	10

Layout

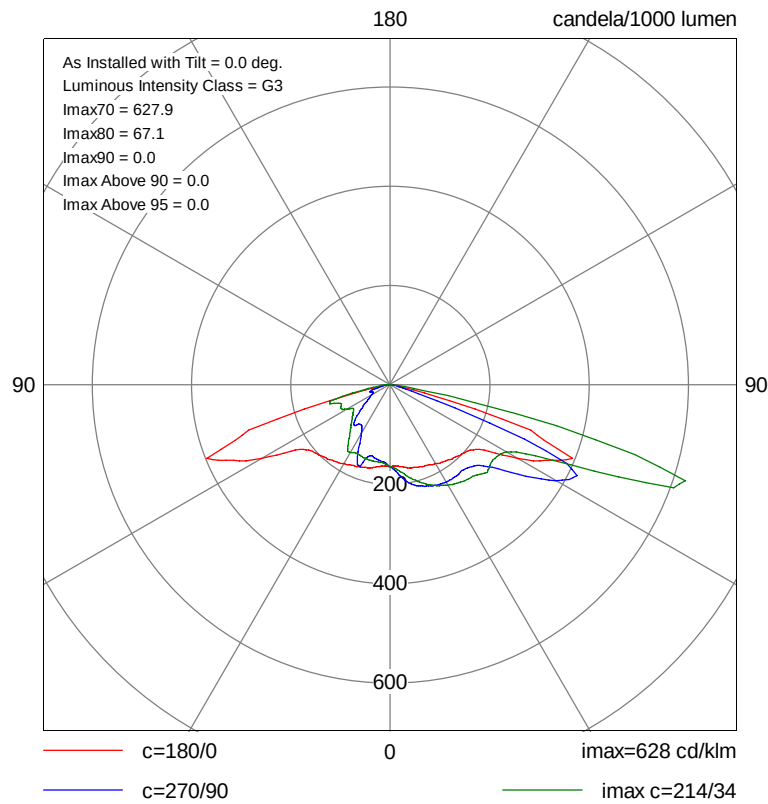
ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Dimmed to	Target X	Target Y	Target Z
1	A	347885.38	391645.27	6.00	353.00	0.00	0.00	0.40	60%			
2	A	347873.90	391609.38	6.00	337.00	0.00	0.00	0.40	60%			
3	A	347860.59	391576.42	6.00	340.00	0.00	0.00	0.40	60%			
4	A	347899.10	391602.38	6.00	254.00	0.00	0.00	0.40	60%			
5	A	347856.90	391543.67	6.00	44.00	0.00	0.00	0.40	60%			
6	A	347931.95	391589.29	6.00	249.00	0.00	0.00	0.40	60%			
7	A	347964.90	391576.12	6.00	248.00	0.00	0.00	0.40	60%			
8	A	347997.29	391553.08	6.00	71.00	0.00	0.00	0.40	60%			
9	A	348030.50	391540.62	6.00	69.00	0.00	0.00	0.40	60%			
10	A	348065.62	391535.21	6.00	247.00	0.00	0.00	0.40	60%			
11	A	348099.24	391512.02	6.00	73.00	0.00	0.00	0.40	60%			
12	A	348128.54	391499.95	6.00	68.00	0.00	0.00	0.40	60%			
13	B	348156.91	391487.22	6.00	21.00	0.00	0.00	0.40	50%			
14	A	347889.62	391529.61	6.00	70.00	0.00	0.00	0.40	60%			
15	A	347927.54	391524.31	6.00	251.00	0.00	0.00	0.40	60%			

Layout Continued

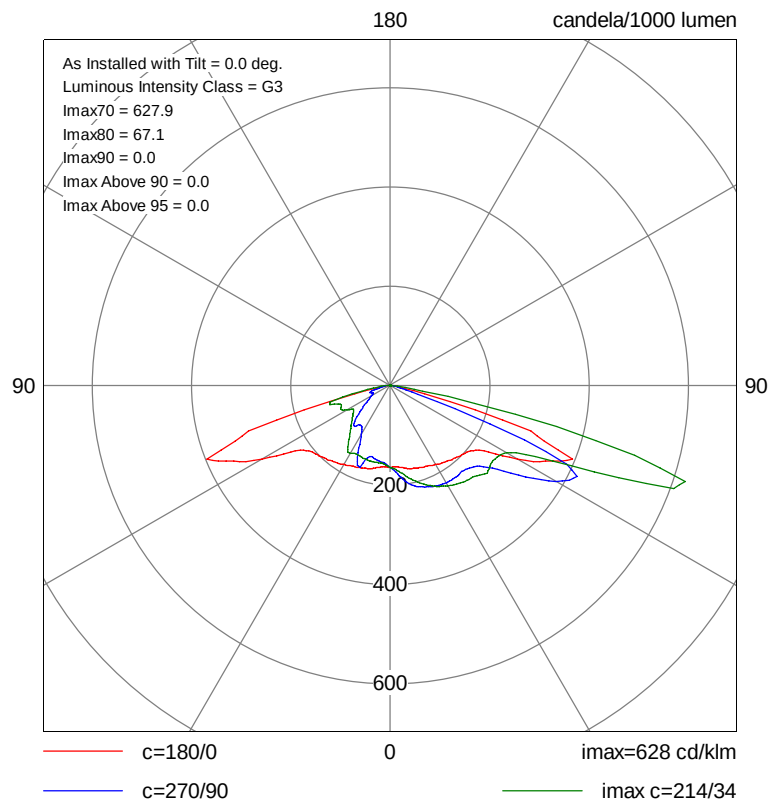
ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Dimmed to	Target X	Target Y	Target Z
16	A	347958.57	391511.77	6.00	250.00	0.00	0.00	0.40	60%			
17	A	347986.49	391500.29	6.00	249.00	0.00	0.00	0.40	60%			
18	A	348018.13	391477.69	6.00	67.00	0.00	0.00	0.40	60%			
19	A	348050.56	391464.65	6.00	69.00	0.00	0.00	0.40	60%			
20	A	348079.69	391452.96	6.00	70.00	0.00	0.00	0.40	60%			
21	A	348110.91	391440.27	6.00	67.00	0.00	0.00	0.40	60%			
22	B	348139.31	391440.01	6.00	292.00	0.00	0.00	0.40	50%			
23	B	348167.46	391507.63	6.00	342.00	0.00	0.00	0.40	50%			
24	B	348150.16	391465.73	6.00	341.00	0.00	0.00	0.40	50%			
25	B	348133.35	391413.90	6.00	338.00	0.00	0.00	0.40	50%			
26	B	348037.37	391617.63	6.00	2.00	0.00	0.00	0.40	50%			
27	B	348020.50	391607.85	6.00	67.00	0.00	0.00	0.40	50%			
28	B	348063.67	391593.34	6.00	70.00	0.00	0.00	0.40	50%			
29	B	348118.76	391581.18	6.00	201.00	0.00	0.00	0.40	50%			
30	B	348092.78	391581.63	6.00	69.00	0.00	0.00	0.40	50%			

Polar Diagrams

Luminaire A [A] ISARO PRO S - 24 x WW 3000K LED CRI70 700mA - EWR Optic

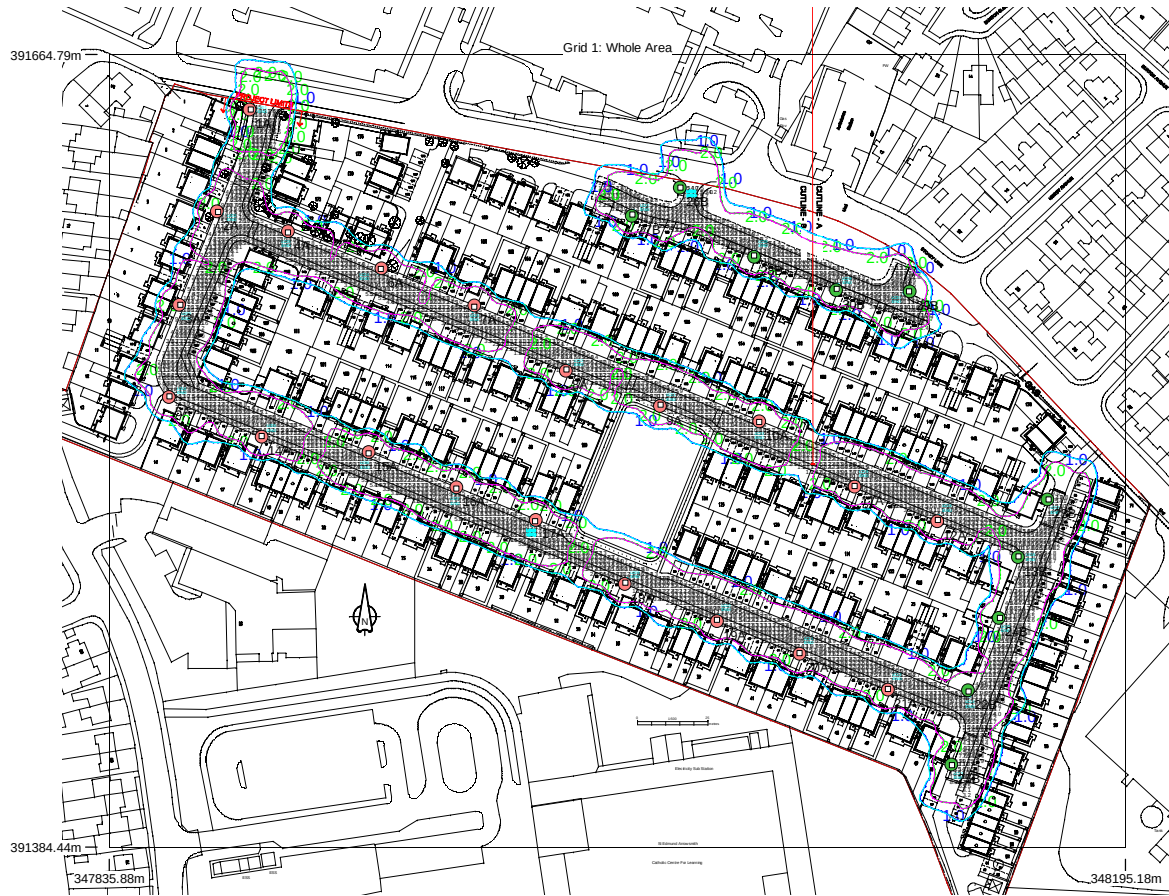


Luminaire B [A] ISARO PRO S - 24 x WW 3000K LED CRI70 700mA - EWR Optic



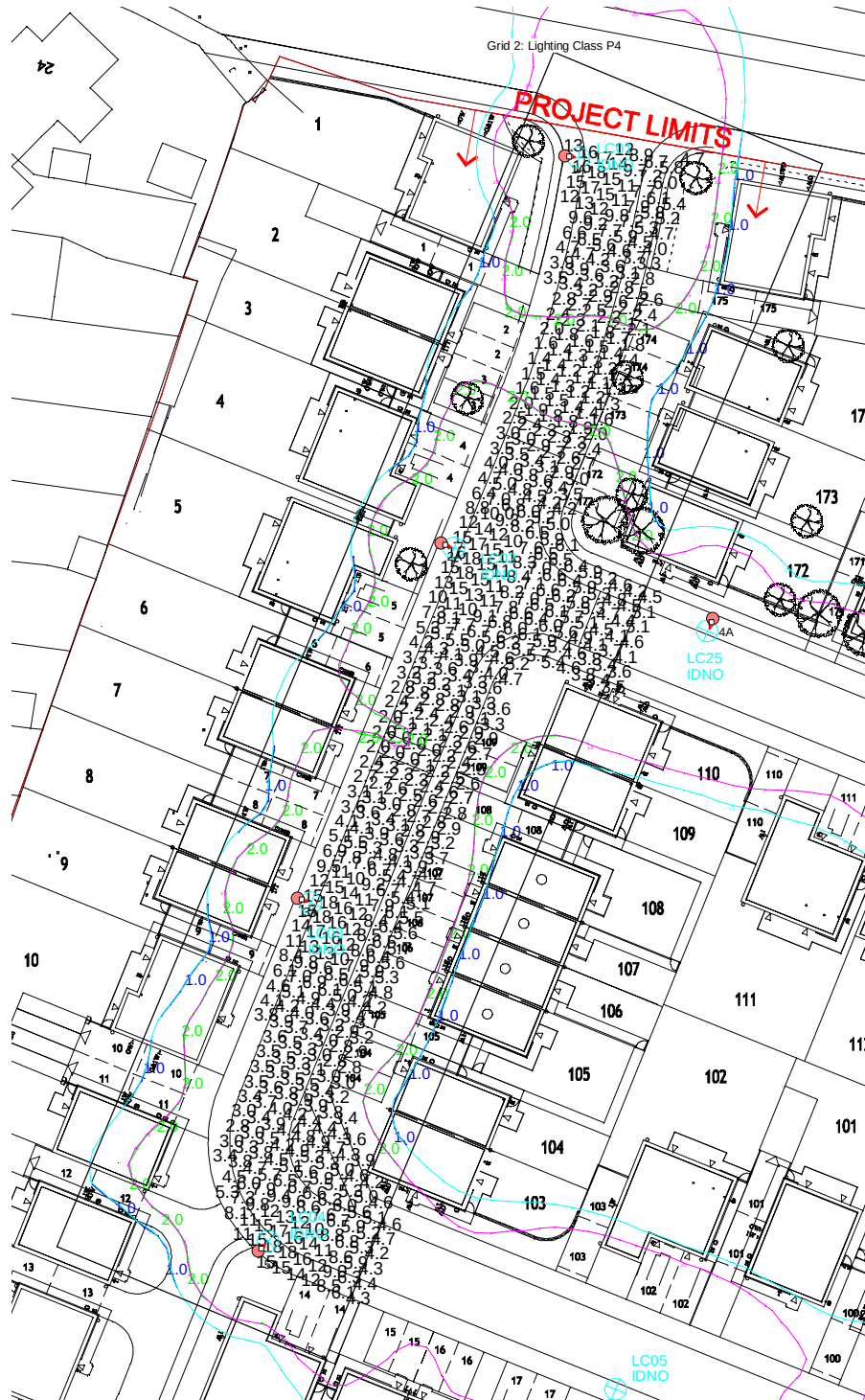
Horizontal Illuminance (lux)

Grid 1: Whole Area



Horizontal Illuminance (lux)

Grid 2: Lighting Class P4

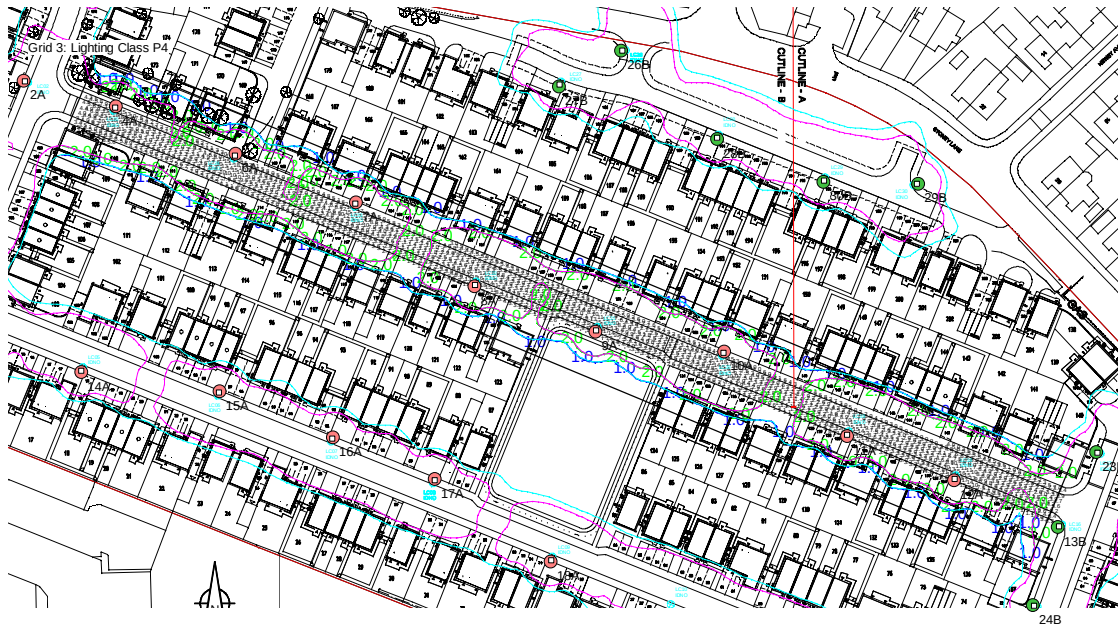


Results

Eav	5.74
Emin	1.13
Emax	18.14
Emin/Emax	0.06
Emin/Eav	0.20

Horizontal Illuminance (lux)

Grid 3: Lighting Class P4

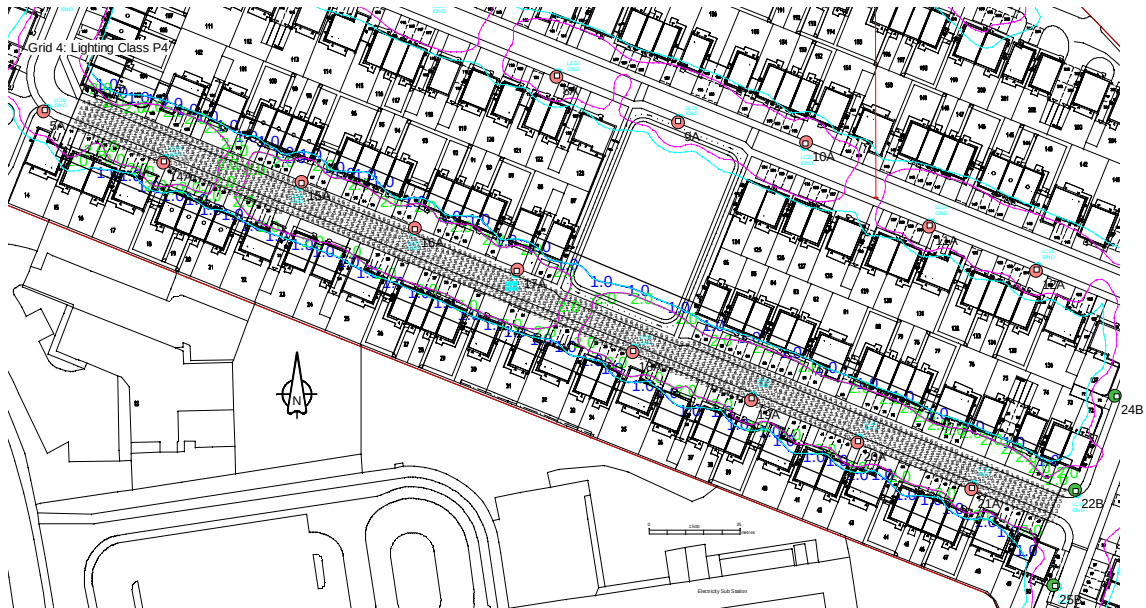


Results

Eav	5.31
Emin	1.09
E _{max}	18.17
Emin/E _{max}	0.06
Emin/Eav	0.21

Horizontal Illuminance (lux)

Grid 4: Lighting Class P4



Results

Eav	5.43
Emin	1.37
E _{max}	18.20
Emin/E _{max}	0.08
Emin/Eav	0.25

Horizontal Illuminance (lux)

Grid 5: Lighting Class P4

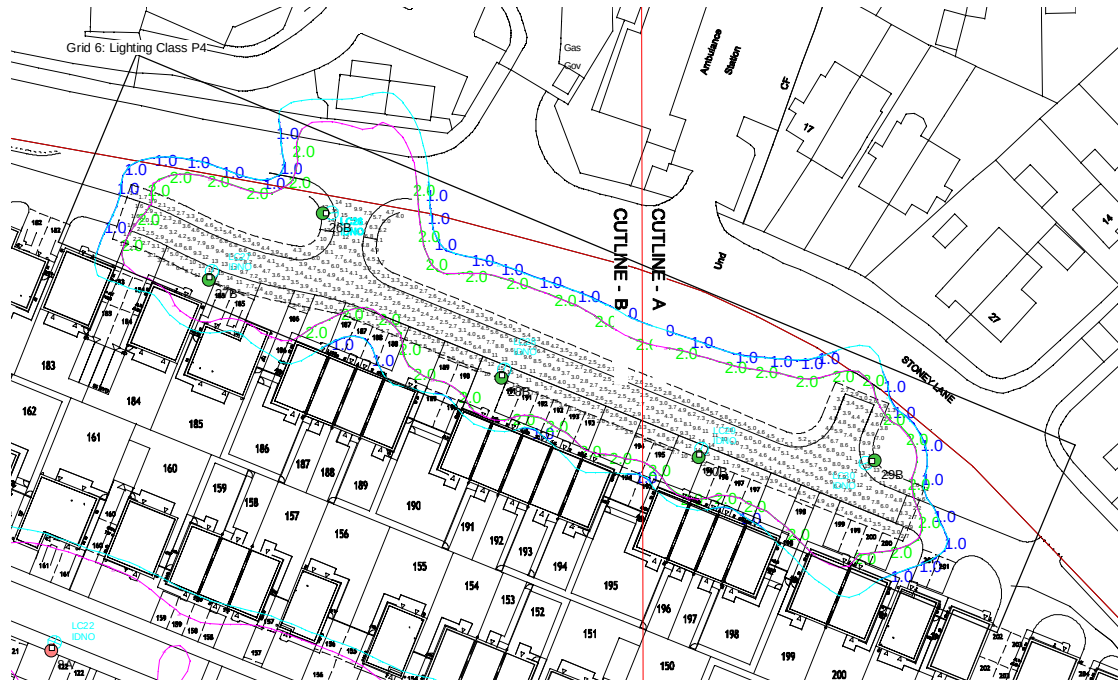


Results

Eav	6.11
Emin	1.70
E _{max}	15.39
E _{min} /E _{max}	0.11
E _{min} /E _{av}	0.28

Horizontal Illuminance (lux)

Grid 6: Lighting Class P4



Results

Eav	5.56
Emin	1.13
Emax	15.21
Emin/Emax	0.07
Emin/Eav	0.20