

Taskers Superstore Garden Centre Area

Installation : Taskers New Superstore

Project number :

Customer : Taskers

Processed by : Darren Cavannagh

Date : 06.03.2015

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.

Please Note: All designs must be checked by the contractor prior to placement of order.
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1 Luminaire data

1.1 One Electrical 150w Premium Floodlights, OE-150WFLOODP (Premium 150w Floodlight

1.1.1 Data sheet

Manufacturer: One Electrical 150w Premium Floodlights

Premium 150w Floodlight.Idt

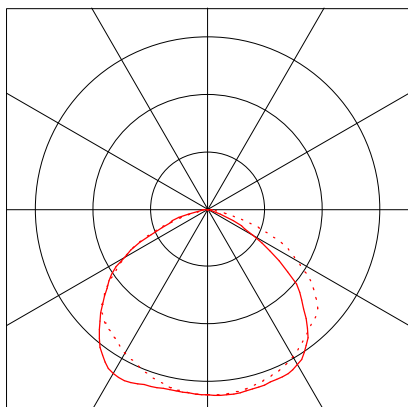
OE-150WFLOODP

Luminaire data

Luminaire efficiency : 100%
Luminaire efficacy : 98.28 lm/W
Classification : A40 ↓ 100.0% ↑ 0.0%
CIE Flux Codes : 48 84 98 100 100
UGR 4H 8H (20%, 50%, 70%)
C0 / C90 : 27.2 / 30.6
Control gear :
System power : 150.8 W
Length : 300 mm
Width : 230 mm

Equipped with

Quantity : 1
Designation : LED
Colour :
Luminous flux : 14820 lm



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1.1 One Electrical 150w Premium Floodlights, OE-150WFLOODP (Premium 150w Floodlight

1.1.2 Glare Rating (UGR)

Reflectance of											
Ceiling	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3	
Walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3	
Floor Cavity	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	

Room dimension		Viewed crosswise					Viewed endwise				
x	y										
2H	2H	26.2	27.8	26.5	28.1	28.4	28.3	29.9	28.6	30.2	30.5
	3H	26.4	27.9	26.8	28.2	28.6	29.5	31.0	29.9	31.3	31.6
	4H	26.4	27.7	26.8	28.1	28.5	29.7	31.1	30.1	31.4	31.8
	6H	26.4	27.6	26.8	28.0	28.4	29.7	31.0	30.1	31.4	31.8
	8H	26.3	27.5	26.7	27.9	28.3	29.7	30.9	30.1	31.3	31.7
	12H	26.3	27.4	26.7	27.8	28.2	29.6	30.8	30.1	31.2	31.6
4H	2H	26.9	28.3	27.3	28.7	29.0	28.9	30.3	29.3	30.7	31.0
	3H	27.2	28.4	27.6	28.8	29.2	30.3	31.5	30.7	31.9	32.3
	4H	27.2	28.2	27.7	28.7	29.1	30.6	31.7	31.1	32.1	32.5
	6H	27.2	28.1	27.6	28.5	28.9	30.6	31.5	31.1	32.0	32.4
	8H	27.2	28.0	27.6	28.4	28.9	30.6	31.5	31.1	31.9	32.4
	12H	27.2	27.9	27.7	28.4	28.9	30.6	31.4	31.1	31.8	32.3
8H	4H	27.2	28.1	27.7	28.5	29.0	30.7	31.5	31.1	32.0	32.4
	6H	27.2	27.9	27.7	28.3	28.8	30.7	31.4	31.2	31.8	32.3
	8H	27.2	27.8	27.7	28.3	28.8	30.7	31.3	31.2	31.8	32.3
	12H	27.3	27.8	27.8	28.3	28.8	30.7	31.2	31.3	31.8	32.3
12H	4H	27.2	28.0	27.7	28.4	28.9	30.7	31.4	31.1	31.9	32.4
	6H	27.2	27.8	27.7	28.3	28.8	30.7	31.3	31.2	31.8	32.3
	8H	27.2	27.7	27.7	28.2	28.7	30.7	31.2	31.2	31.7	32.2

Distance between luminaires: 0.25

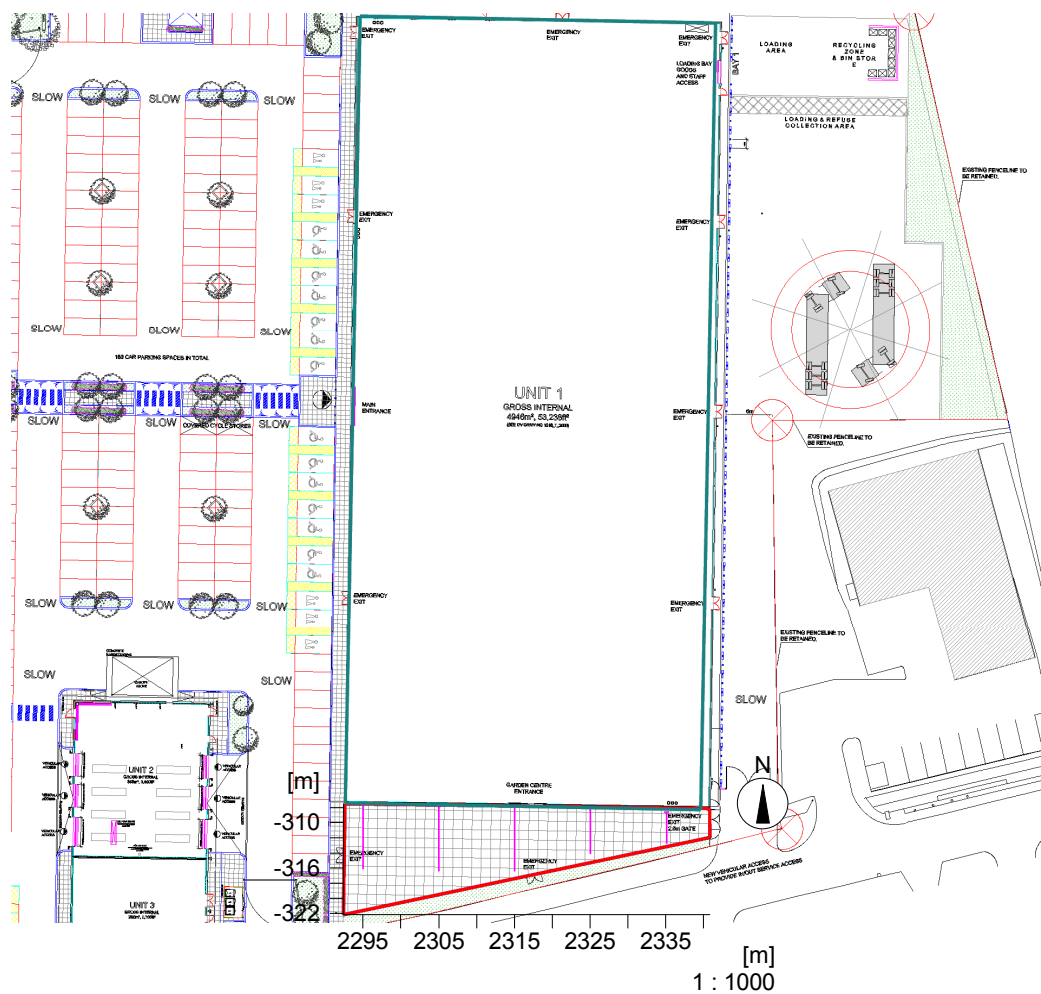
Due to missing symmetry characteristics the values apply only to the indicated line of sight.

Manufacturer	: One Electrical 150w Premium Floodlight	Efficiency factor	: 100%
Order number	: Premium 150w Floodlight.Idt	Luminaire efficacy	: 98.28 lm/W (A40)
Luminaire name	: OE-150WFLOODP	Light distribution	: asymmetric
Equipment	: 1 x LED / 14820 lm	Beam Angle	: 52.8° C0
Dimensions	: L 300 mm x W 230 mm x H 0.0 mm		: 61.9° C90
File name	: Premium 150w Floodlight.Idt		: 60.0° C180
			: 60.0° C270

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3.1.2 Floor plan

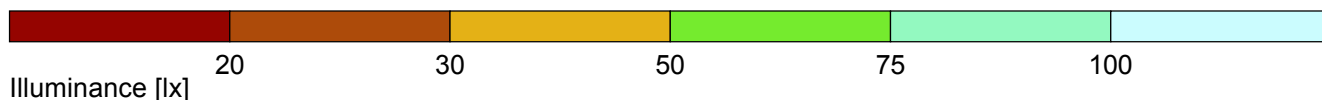
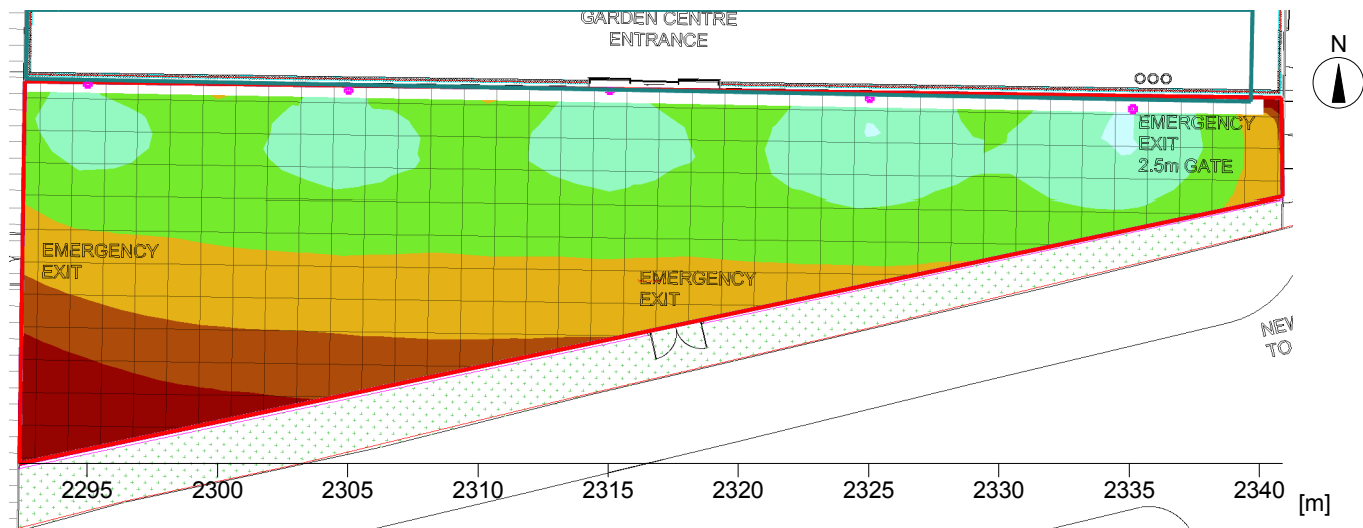


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3 Exterior 2

3.2 Summary, Exterior 2

3.2.1 Result overview, Evaluation area 1



General

Calculation algorithm used
 photometric centre height.
 Maintenance factor

Average indirect fraction
 6.00 m
 0.80

Total luminous flux of all lamps
 Total power
 Total power per area (444.99 m²)

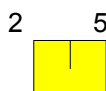
74100 lm
 754.0 W
 1.69 W/m² (2.96 W/m²/100lx)

Evaluation area 1

Reference plane 1.1

Horizontal
 Em 57.2 lx
 Emin 10.5 lx
 Emin/Eav (Uo) 0.18
 Emin/Emax (Ud) 0.10
 Position 0.00 m

Type No.\Make



One Electrical 150w Premium Floodlights

Order No. : Premium 150w Floodlight.Idt
 Luminaire name : OE-150WFLOODP
 Equipment : 1 x LED / 14820 lm

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3 Exterior 2

3.3 Calculation results, Exterior 2

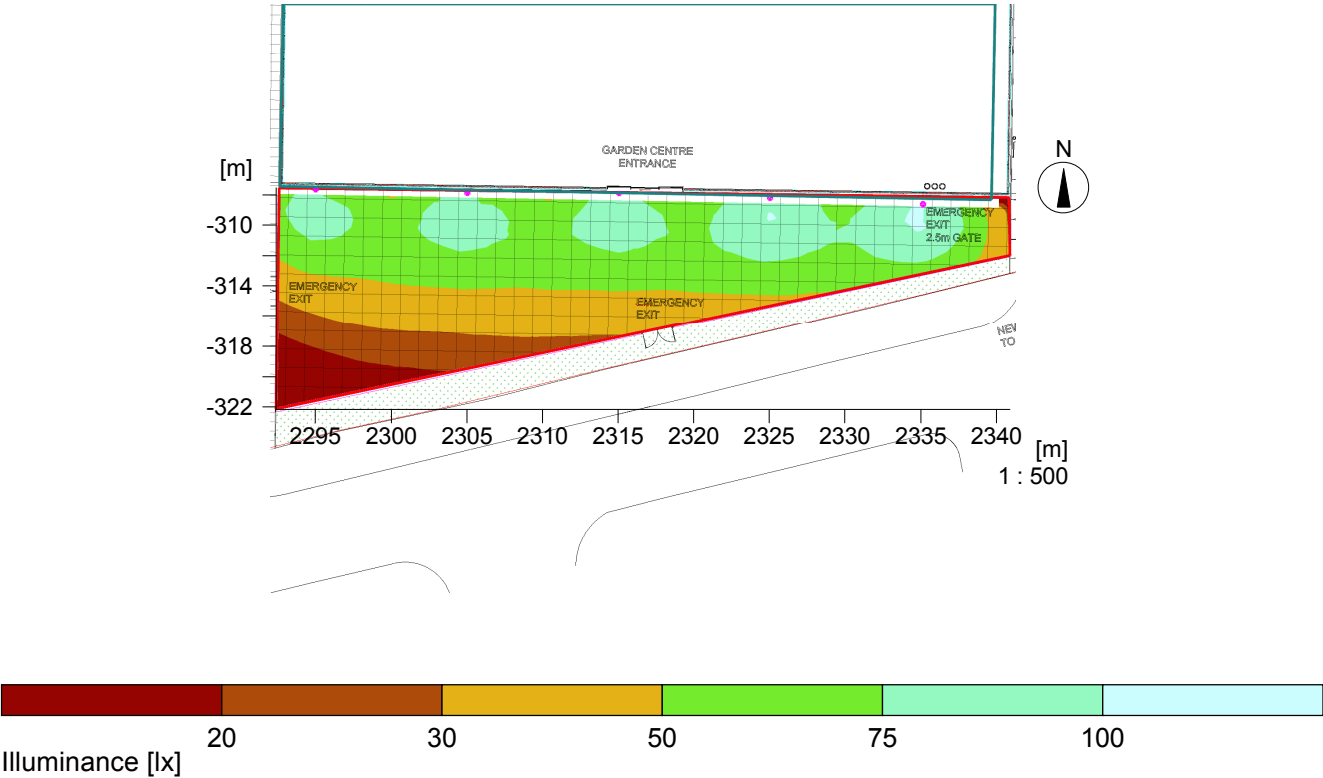
3.3.1 Table, Reference plane 1.1 (E)



Part2

3.3 Calculation results, Exterior 2

3.3.2 Pseudo colours, Reference plane 1.1 (E)

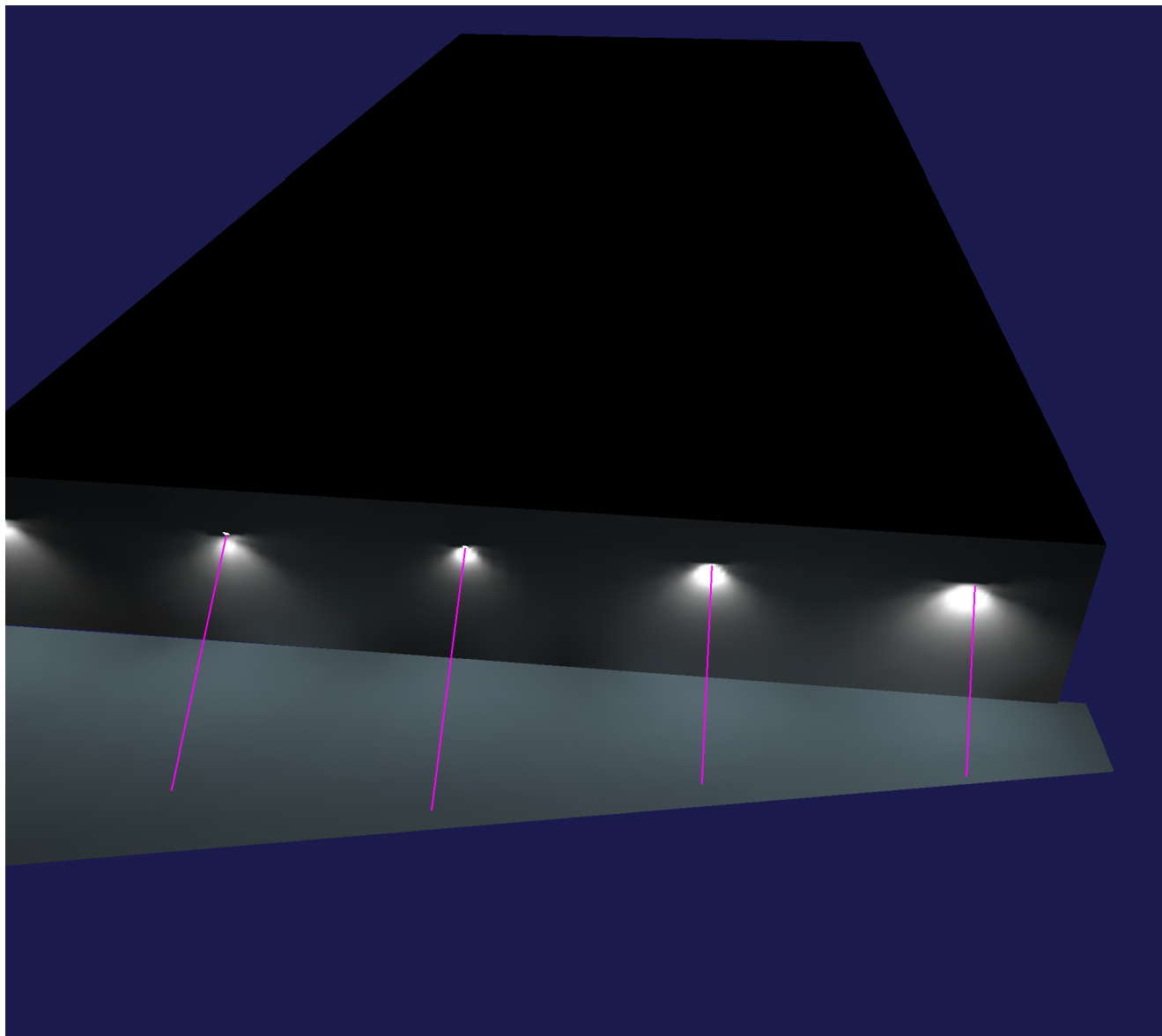


Height of the reference plane		: 0.00 m
Average illuminance	Eav	: 57 lx
Minimum illuminance	Emin	: 10 lx
Maximum illuminance	Emax	: 101 lx
Uniformity Uo	Emin/Eav	: 1 : 5.45 (0.18)
Diversity Ud	Emin/Emax	: 1 : 9.66 (0.10)

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3.3 Calculation results, Exterior 2

3.3.3 3D luminance, View 1



Luminance in the scene

Minimum: : 0 cd/m²

Maximum: : 574 cd/m²