

KINGSWAY HIGH SCHOOL

Installation : EXTERNAL CANOPY

Project number :

Customer :

Processed by : Alex

Date : 23.02.2023

The following values are based on precise calculations performed on calibrated lamps and luminaires, and their configurations, whereby gradual, unavoidable deviations can occur in practice. All guarantee claims are excluded for the specified data.

This exclusion of liability applies irrespective of the legal grounds for both damages and consequential damages suffered by users and third parties.

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1 Luminaire data

1.1 Southgate Lighting Ltd., Neptune 1500mm 4350Lm ... (SGL/LED/15/4350...)

1.1.1 Data sheet

Manufacturer: Southgate Lighting Ltd.

SGL/LED/15/4350/NT/200mA

Neptune 1500mm 4350Lm LED IP65 200mA

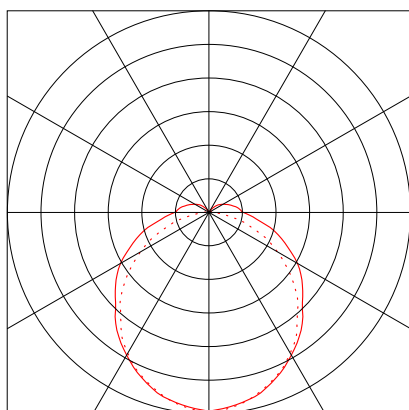
Luminaire data

Luminaire efficiency : 100%
Luminaire efficacy : 164.27 lm/W
Classification : A31 ↓91.1% ↑8.9%
CIE Flux Codes : 43 72 91 91 100
UGR 4H 8H : 22.9 / 21.6
Power : 23.2 W
Luminous flux : 3811 lm

Equipped with

Quantity : 3
Designation : Tridonic LLE
560mm ADV5
Colour : 4000K
Luminous flux : 1270.3 lm
Colour reproduction : >80

Dimensions : 1510 mm x 110 mm x 75 mm

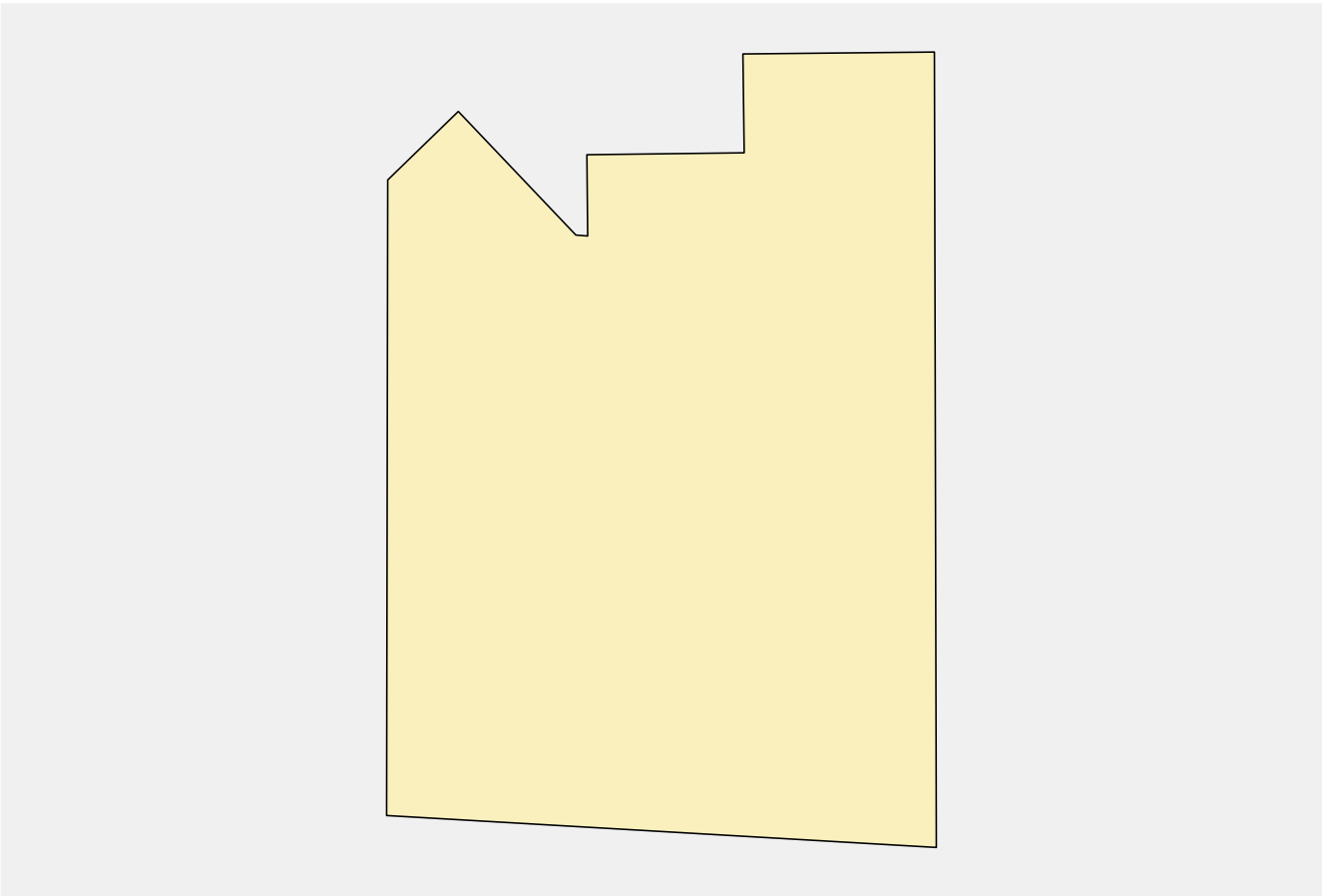


Emergency Lighting

Light source from normal operation with reduced flux
Luminous flux : 946 lm

Summary, Floor 1

.1 Floor overview



Number of rooms	1	
Total area	1230 m²	Calculated
Number of luminaires	27	
Total luminous flux	102897 lm	
Total power	626.4 W	
Total power per area	0.51 W/m²	

Parts list

Type No.Make

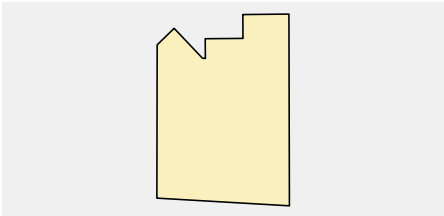
		Southgate Lighting Ltd.	
1	27 x	Order No.	: SGL/LED/15/4350/NT/200mA
		Luminaire name	: Neptune 1500mm 4350Lm LED IP65 200mA
		Equipment	: 3 x Tridonic LLE 560mm ADV5 / 1270.33 lm
		Emergency	: 946 lm (24.8 %)

Summary, Floor 1

.1 Floor overview

Rooms

Room 1	27 x Luminaires
Total luminous flux	102897 lm
Total power	626.4 W
Total power per area (1230 m²)	0.51 W/m²
Em	56 lx
Emin	26 lx
Emin/Em (Uo)	0.45

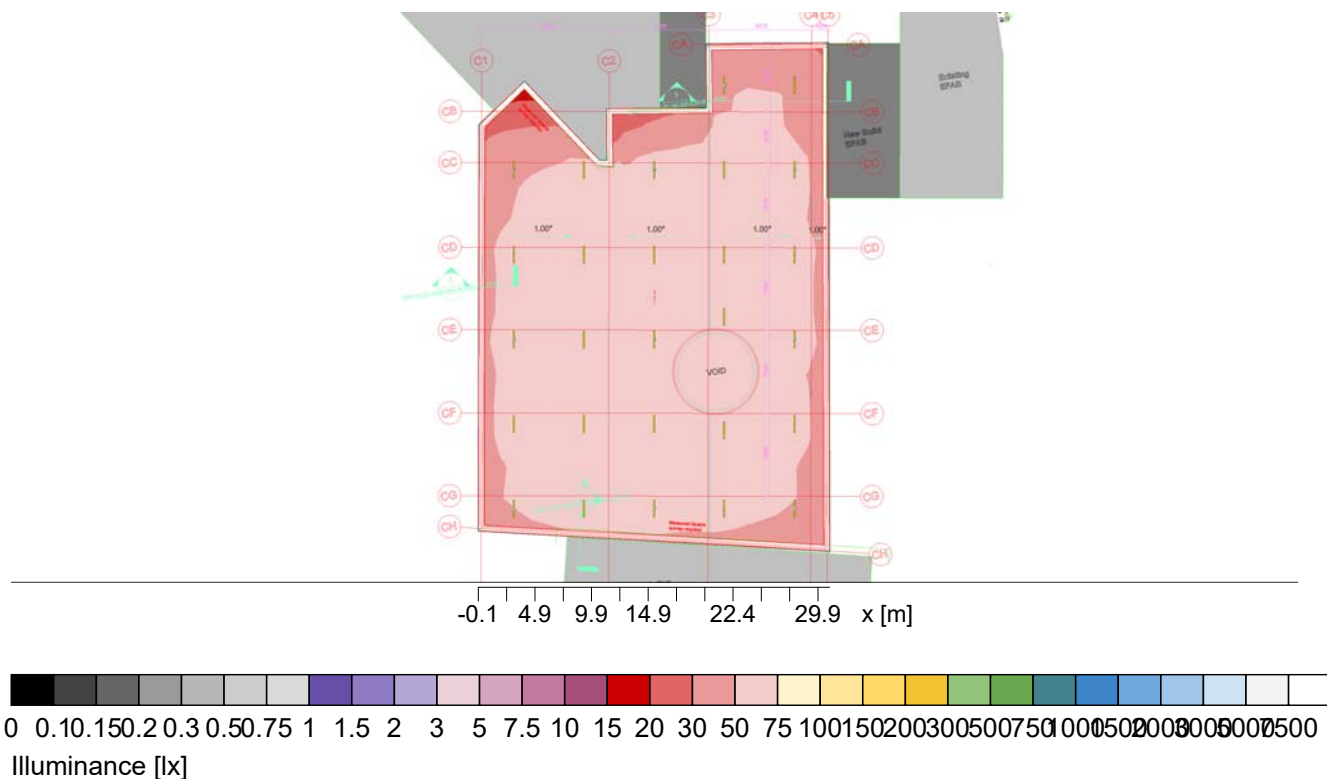


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1 Room 1

1.1 Summary, Room 1

1.1.1 Result overview, Evaluation area 1



General

Calculation algorithm used
Height of luminaire plane
Maintenance factor

Average indirect fraction
6.50 m
0.80

Total luminous flux

102897.00 lm

Total power

626.4 W

Total power per area (1230.23 m²)

0.51 W/m² (0.90 W/m²/100lx)

Evaluation area 1

Reference plane 1.1

	Horizontal	cylindrical
Em	56.3 lx	28.9 lx
Emin	25.6 lx	16.6 lx
Emin/Em (Uo)	0.45	0.57
Emin/Emax (Ud)	0.37	
Ec/Eh		0.48
Position	0.00 m	1.60 m

Major surfaces

	Em	Uo
M 1.10 (Ceiling)	17.9 lx	0.54
M 1.1 (Wall)	40.7 lx	0.49
M 1.2 (Wall)	40.6 lx	0.54
M 1.3 (Wall)	39.9 lx	0.56
M 1.4 (Wall)	31.8 lx	0.72
M 1.5 (Wall)	46 lx	0.46
M 1.6 (Wall)	24.7 lx	0.62
M 1.7 (Wall)	23.3 lx	0.64
M 1.8 (Wall)	27.3 lx	0.39
M 1.9 (Wall)	20.5 lx	0.57

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1 Room 1

1.1 Summary, Room 1

1.1.1 Result overview, Evaluation area 1

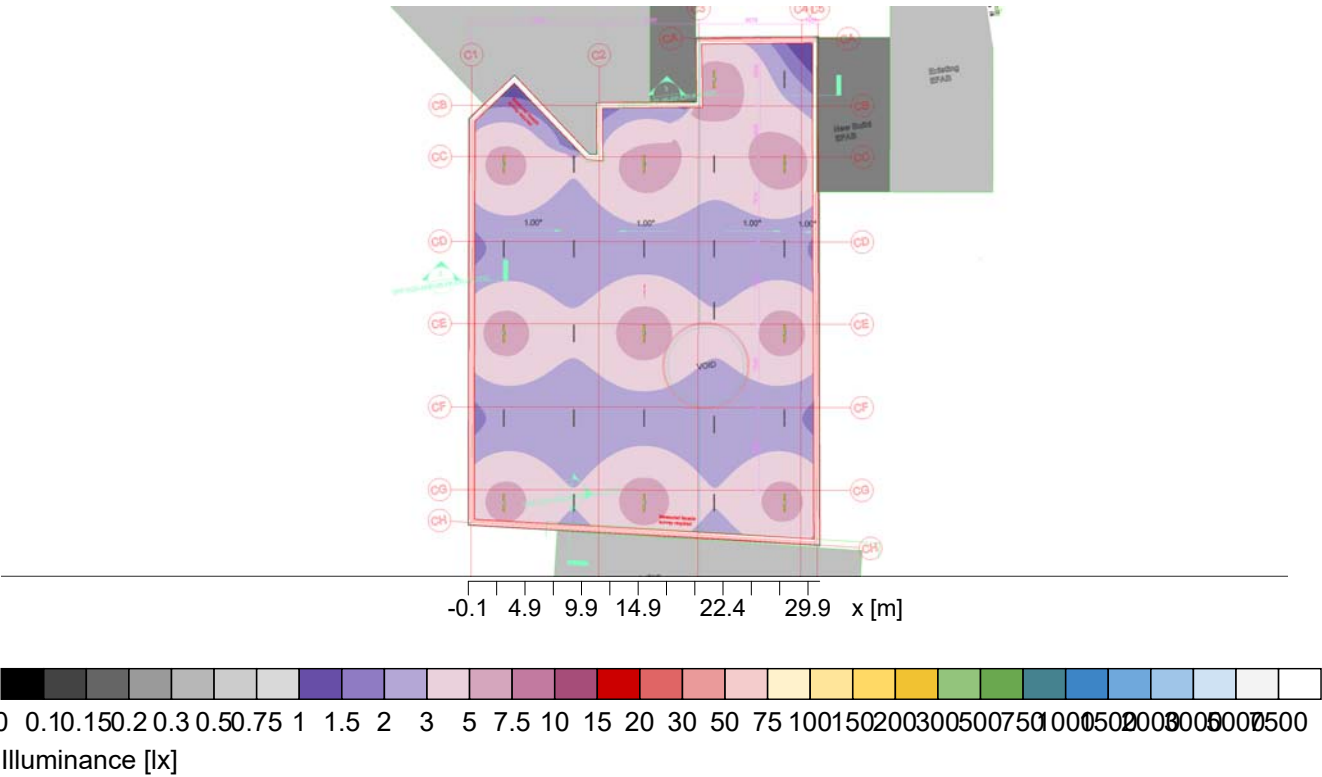
Type No.\Make

		Southgate Lighting Ltd.
1	27 x	Order No. : SGL/LED/15/4350/NT/200mA
		Luminaire name : Neptune 1500mm 4350Lm LED IP65 200mA
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		Emergency : 946 lm (24.8 %)

1 Room 1

1.2 Summary, Room 1

1.2.1.1 Result overview (emergency lighting)



General

Calculation algorithm used

Maintenance factor

Height (phot. centre)

Maximum I

: Direct component

: 0.8

: 6.46 m

: 280 cd

< 5000 cd

Anti panic area:

No.	Surface Emin [lx]	Ud
1	0.97 lx	1: 6.54
	>= 0.5 lx	< 1 : 40

Type No.\Make

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	Order No.	: SGL/LED/15/4350/NT/200mA
	Luminaire name	: Neptune 1500mm 4350Lm LED IP65 200mA
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	Emergency	: 946 lm (24.8 %)

2 Exterior 1

2.1 Description, Exterior 1

2.1.1 Floor plan

