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ADUR & WORTHING
PLANNING SERVICES
PLAN AWDM/ 0441/13
DATE VALID - 2 DEC 2014

High Level Floods

Installation : Horiba VERC

Project number : 1370
Customer : Horiba
Processed by : A Burch
Date : 26.02.2014

Project description:
Vehicle Emission Research Centre

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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1 Luminaire data

1.1 Whitecroft Lighting, EUROFLOOD MINI (SC300)

1.1.1 Data sheet

Manufacturer: Whitecroft Lighting

SC300 EXTERIOR EUROFLOOD MINI
EUROFLOOD MINI

IP65 die cast aluminium precision floodlight with asymmetric beam
Maximum body depth only 83mm

Options:
Add suffix B for black or W for white
Uplighter bracket or wire guard accessories available seperately
1,2,3 or 4 way post top adaptors available seperately

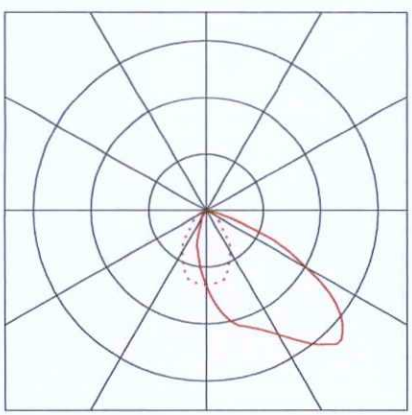
Note:
Finished grey as standard
Supplied LESS lamp

Luminaire data

Luminaire efficiency	:	68%
Luminaire efficacy	:	11.33 lm/W
Classification	:	A40 ↓100.0% ↑0.0%
CIE Flux Codes	:	50 86 99 100 68
UGR 4H 8H (20%, 50%, 70%)		
C0 / C90	:	34.8 / 24.2
Control gear	:	none
System power	:	300 W
Length	:	235 mm
Width	:	350 mm
Height	:	89 mm

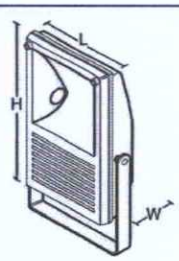
Equipped with

Quantity	:	1
Designation	:	HDG-Ø12
Power	:	300 W
Colour	:	ww/3000K
Luminous flux	:	5000 lm
Colour reproduction	:	1A





DIMENSIONS

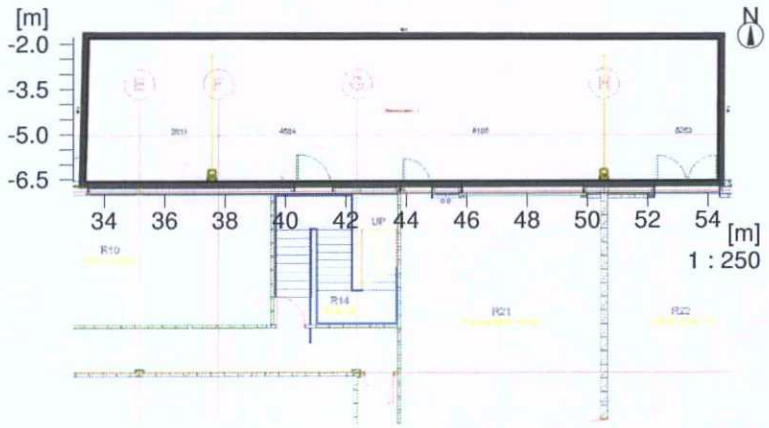


Version	L	W	H	KG
SC70	235	88	350	6.0
SC150	235	88	350	6.5

2 Floods External

2.1 Description, Floods External

2.1.2 Floor plan

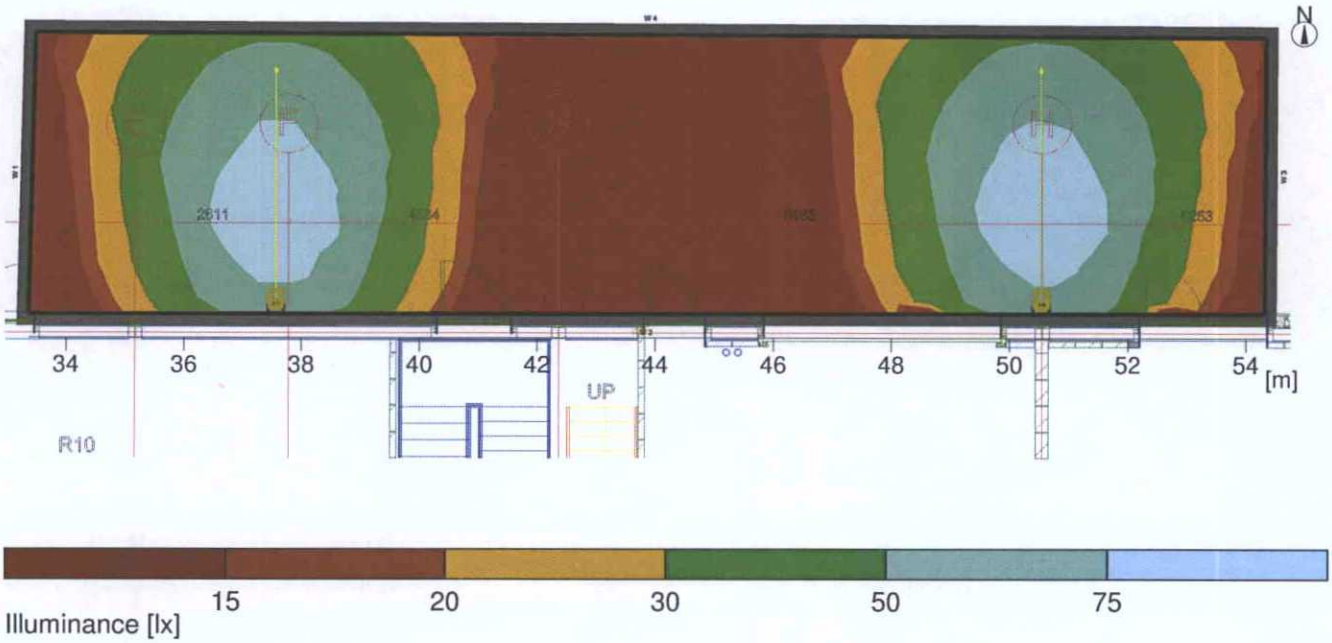


Wall	x	y	Length	Reflectance
1	30.29 m	33.85 m	4.79 m	0.0 %
2	51.25 m	33.85 m	20.96 m	0.0 %
3	51.28 m	38.56 m	4.71 m	0.0 %
4	30.40 m	38.63 m	20.88 m	0.0 %
Floor				0.0 %
Ceiling				0.0 %
Room height		20.00 m		
Height of reference plane		0.00 m		

2 Floods External

2.2 Summary, Floods External

2.2.1 Result overview, Evaluation area 1



General

Calculation algorithm used	Average indirect fraction
Height of luminaire plane	3.99 m
Maintenance factor	0.80
Total luminous flux of all lamps	10000 lm
Total power	600.0 W
Total power per area (99.37 m²)	6.04 W/m² (17.76 W/m²/100lx)

Evaluation area 1	**Reference plane 1.1**
	Horizontal
Em	34 lx
Emin	2.5 lx
Emin/Eav (Uo)	0.07
Emin/Emax (Ud)	0.03
UGR (1.7H 7.6H)	<=36.5
Position	0.00 m

Type No.\Make

		Whitecroft Lighting
12	2	Order No. : SC300
		Luminaire name : EUROFLOOD MINI
		Equipment : 1 x HDG-Ø12 300 W / 5000 lm