

Showers

Installation : Cringleford Village Hall

Project number : 1

Customer : SMG Architects

Processed by : Jon Phillips

Date : 18.09.2019

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

1.2 NET LED Lighting - Phone:01223851505, HILTON 600mm (2FT) LED ... (NET-11-11-01.IES)

1.2.1 Data sheet

Manufacturer: NET LED Lighting - Phone:01223851505

NET-11-11-01.IES HILTON 600mm (2FT) LED NCF 20W Non-EM

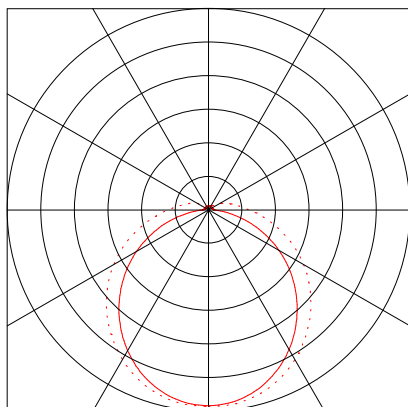
Luminaire data

Luminaire efficiency : 103%
Luminaire efficacy : 129.37 lm/W
Classification : A31 ↓91.2% ↑8.8%
CIE Flux Codes : 42 72 91 91 103
UGR 4H 8H : 19.7 / 25.3
Power : 20 W
Luminous flux : 2587.4 lm

Equipped with

Quantity : 1
Designation : 2835
Colour :
Luminous flux : 2512 lm

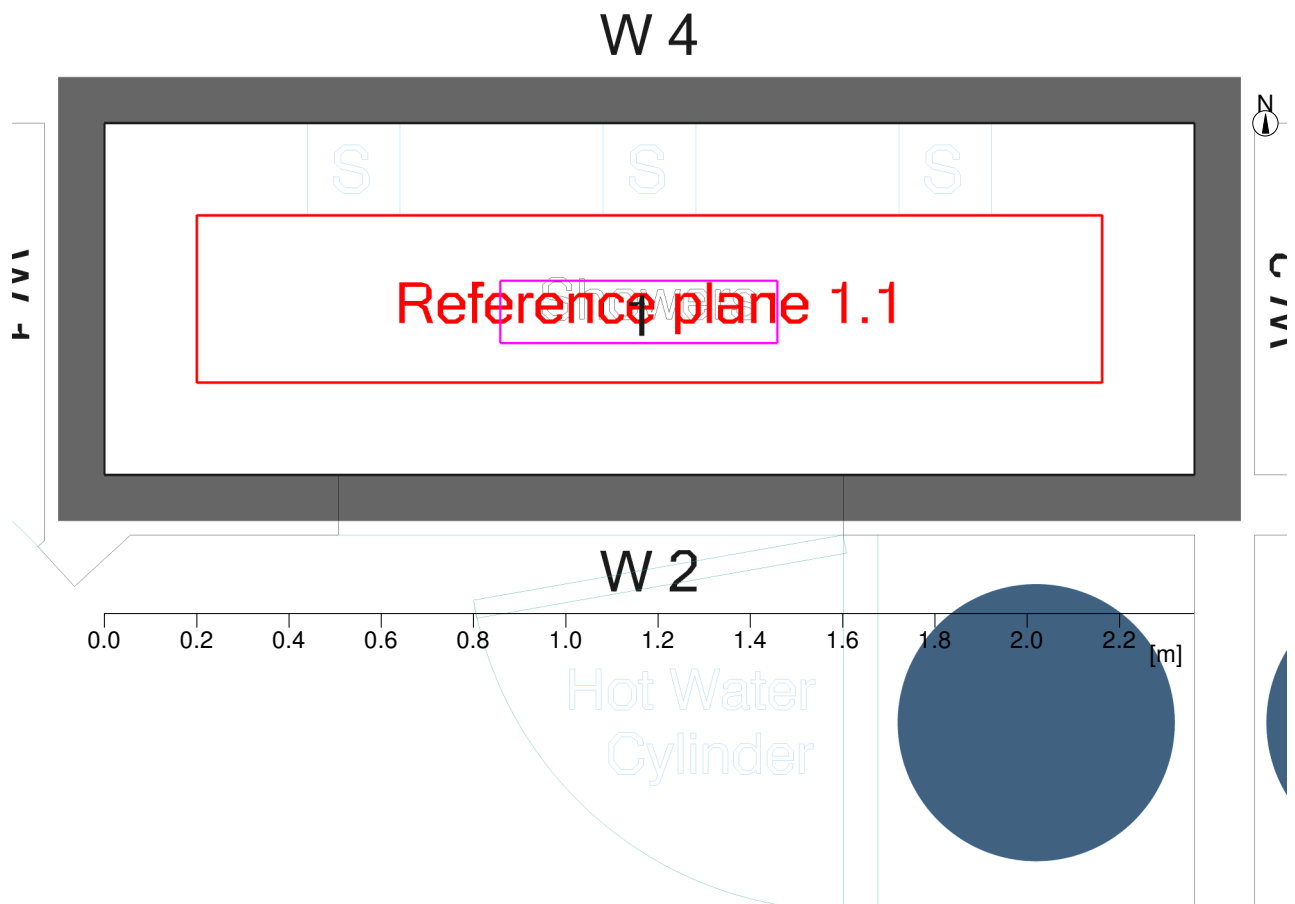
Dimensions : 600 mm x 135 mm x 85 mm



2 Room 1

2.1 Description, Room 1

2.1.1 Floor plan



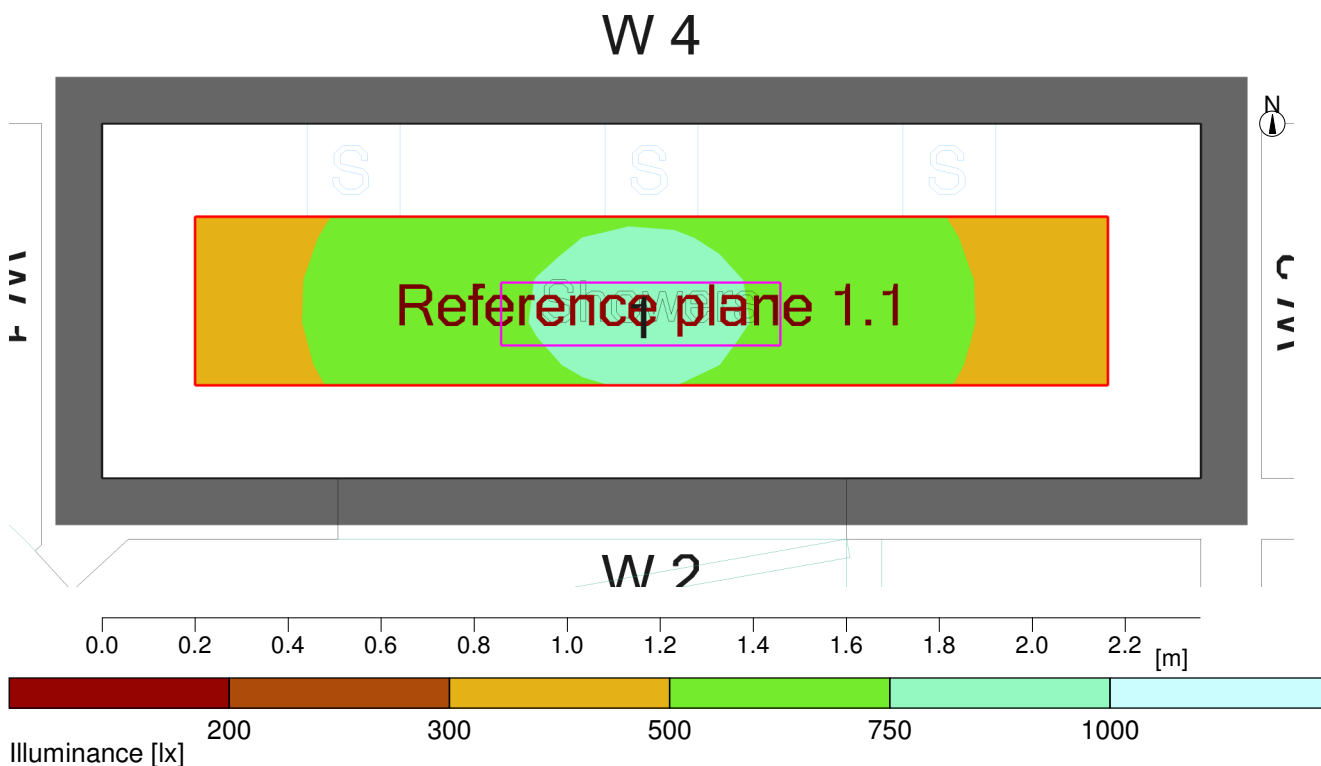
Wall	x	y	Length	Reflectance
1	15.59 m	14.14 m	0.76 m	72.1 %
2	17.95 m	14.14 m	2.36 m	72.1 %
3	17.95 m	14.91 m	0.76 m	72.1 %
4	15.59 m	14.91 m	2.36 m	72.1 %
Floor				20.0 %
Ceiling				100.0 %
Room height		2.40 m		
Height of ref. plane		0.75 m		

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2 Room 1

2.2 Summary, Room 1

2.2.1 Result overview, Evaluation area 1



General

Calculation algorithm used
 Height of luminaire plane
 Maintenance factor

Average indirect fraction
 1.90 m
 0.80

Total luminous flux of all lamps
 Total power
 Total power per area (1.80 m²)

2512.00 lm
 20.0 W
 11.12 W/m² (1.93 W/m²/100lx)

Evaluation area 1

Reference plane 1.1

Horizontal
 E_m 575 lx
 E_{min} 354 lx
 E_{min}/E_m (U_o) 0.62
 E_{min}/E_{max} (U_d) 0.47
 UGR (1.2H 3.6H) <=22.0
 Position 0.75 m

Major surfaces

	E _m	U _o
M 1.5 (Ceiling)	237 lx	0.77
M 1.1 (Wall)	308 lx	0.61
M 1.2 (Wall)	400 lx	0.42
M 1.3 (Wall)	295 lx	0.63
M 1.4 (Wall)	385 lx	0.45

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2 Room 1

2.2 Summary, Room 1

2.2.1 Result overview, Evaluation area 1

Type No.\Make

NET LED Lighting - Phone:01223851505

2 1

Order No. : NET-11-11-01.IES

Luminaire name : HILTON 600mm (2FT) LED NCF 20W Non-EM

Equipment : 1 x 2835 20 W / 2512 lm

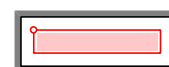
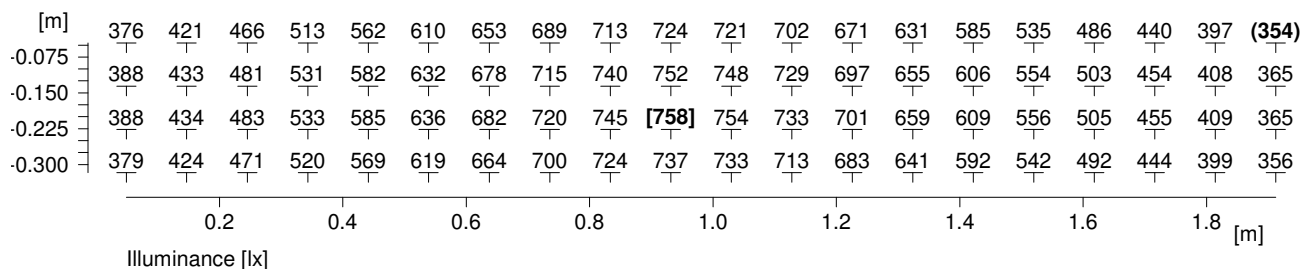
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2 Room 1

2.3 Calculation results, Room 1

2.3.1 Table, Reference plane 1.1 (E)



Height reference plane	: 0.75 m
Average illuminance	Em : 575 lx
Minimum illuminance	Emin : 354 lx
Maximum illuminance	Emax : 758 lx
Uniformity Uo	Emin/Em : 1 : 1.62 (0.62)
Diversity Ud	Emin/Emax : 1 : 2.14 (0.47)