

Changing Room

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

1.1 NET LED Lighting - Phone:01223851505, FOXTON 1800mm (6ft) 32W Tri-colour LED Linear Luminaire (NET-11-11-97 (4...))

1.1.1 Data sheet

Manufacturer: NET LED Lighting - Phone:01223851505

NET-11-11-97 (4000K).IES

FOXTON 1800mm (6ft) 32W Tri-colour LED Linear Luminaire

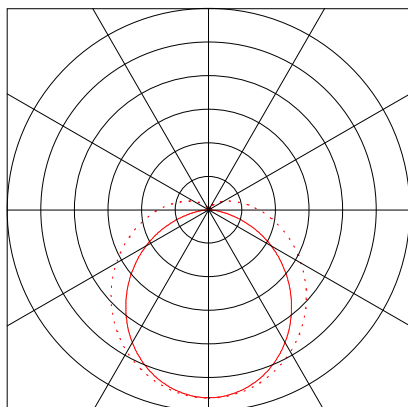
Luminaire data

Luminaire efficiency : 99.6%
Luminaire efficacy : 135.82 lm/W
Classification : B31 ↓90.0% ↑10.0%
CIE Flux Codes : 42 71 90 90 100
UGR 4H 8H : 23.0 / 28.1
Power : 30 W
Luminous flux : 4074.6 lm

Equipped with

Quantity : 1
Designation :
Colour :
Luminous flux : 4091 lm

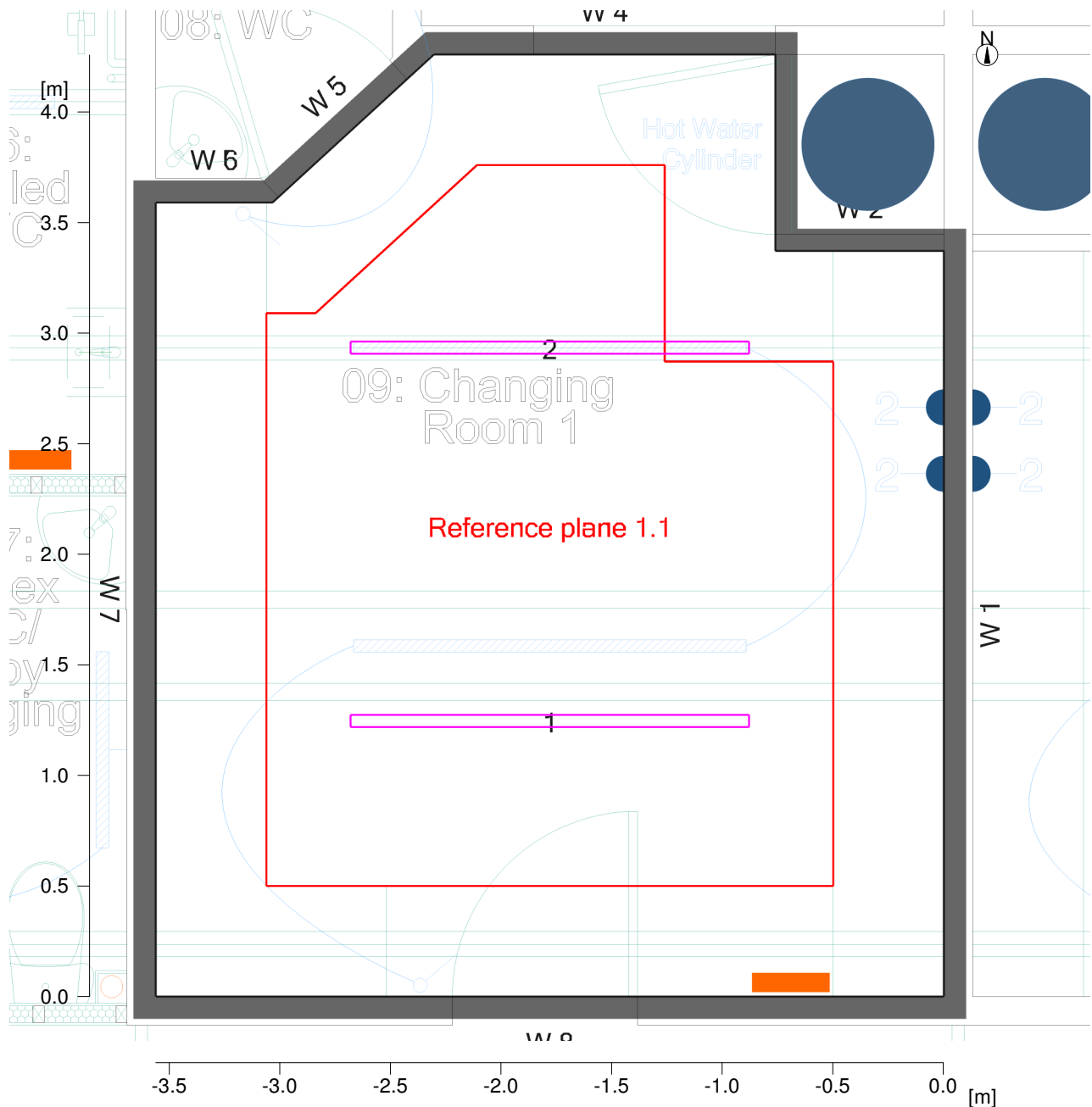
Dimensions : 55 mm x 1800 mm x 1 mm



2 Room 1

2.1 Description, Room 1

2.1.1 Floor plan



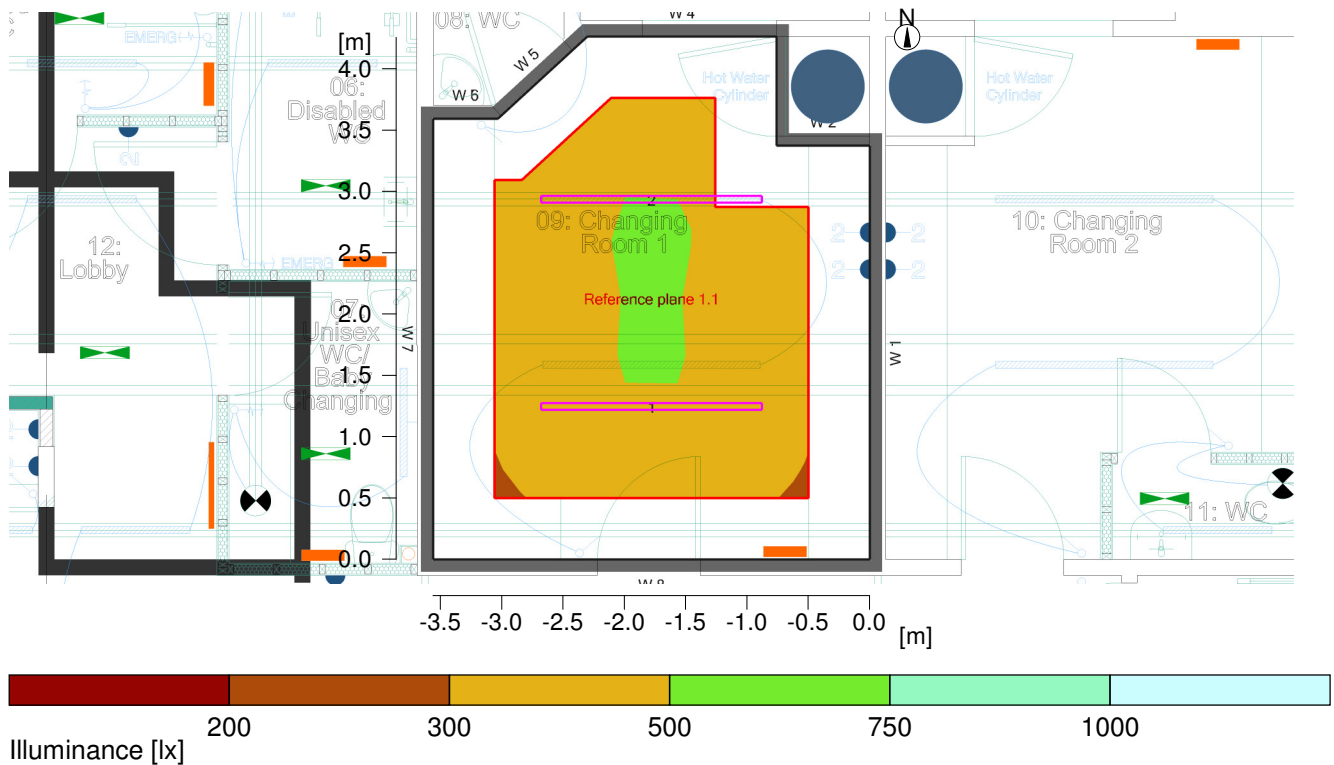
Wall	x	y	Length	Reflectance
1	17.95 m	13.13 m	3.37 m	72.1 %
2	17.19 m	13.13 m	0.76 m	72.1 %
3	17.19 m	14.01 m	0.89 m	72.1 %
4	15.64 m	14.01 m	1.54 m	72.1 %
5	14.91 m	13.34 m	0.99 m	72.1 %
6	14.39 m	13.34 m	0.53 m	72.1 %
7	14.39 m	9.76 m	3.59 m	72.1 %
8	17.95 m	9.76 m	3.56 m	72.1 %
Floor				20.0 %
Ceiling				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
2.40 m
0.80

Total luminous flux of all lamps
Total power
Total power per area (13.89 m²)

8182.00 lm
60.0 W
4.32 W/m² (1.05 W/m²/100lx)

Evaluation area 1

Reference plane 1.1

Horizontal
E_m 413 lx
E_{min} 308 lx
E_{min}/E_m (U_o) 0.75
E_{min}/E_{max} (U_d) 0.63
UGR (3.0H 3.5H) <=24.9
Position 0.75 m

Major surfaces

	E _m	U _o
M 1.5 (Ceiling)	118 lx	0.94
M 1.1 (Wall)	222 lx	0.84
M 1.2 (Wall)	272 lx	0.78
M 1.3 (Wall)	222 lx	0.83
M 1.4 (Wall)	249 lx	0.77

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2.2 Summary, Room 1

2.2.1 Result overview, Evaluation area 1

Type No.\Make

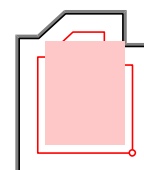
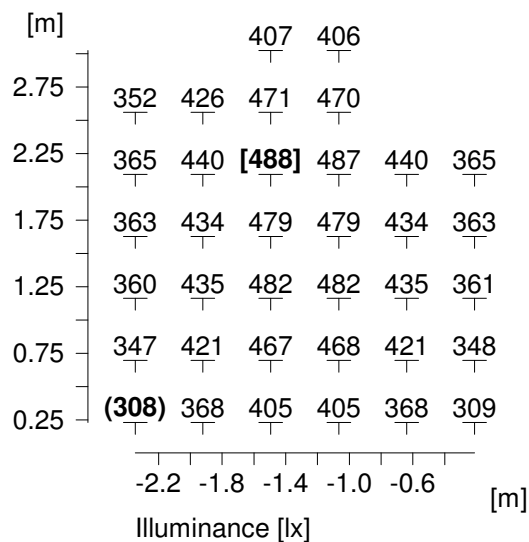
NET LED Lighting - Phone:01223851505

2	2	Order No.	: NET-11-11-97 (4000K).IES
		Luminaire name	: FOXTON 1800mm (6ft) 32W Tri-colour LED Linear Luminaire
		Equipment	: 1 x 30 W / 4091 lm

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 : 413 lx
Minimum illuminance	Emin : 308 lx
Maximum illuminance	Emax : 488 lx
Uniformity Uo	Emin/Em : 1 : 1.34 (0.75)
Diversity Ud	Emin/Emax : 1 : 1.58 (0.63)