

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) 32... (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

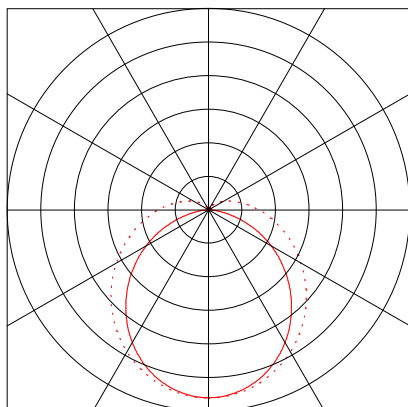
Luminaire data

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

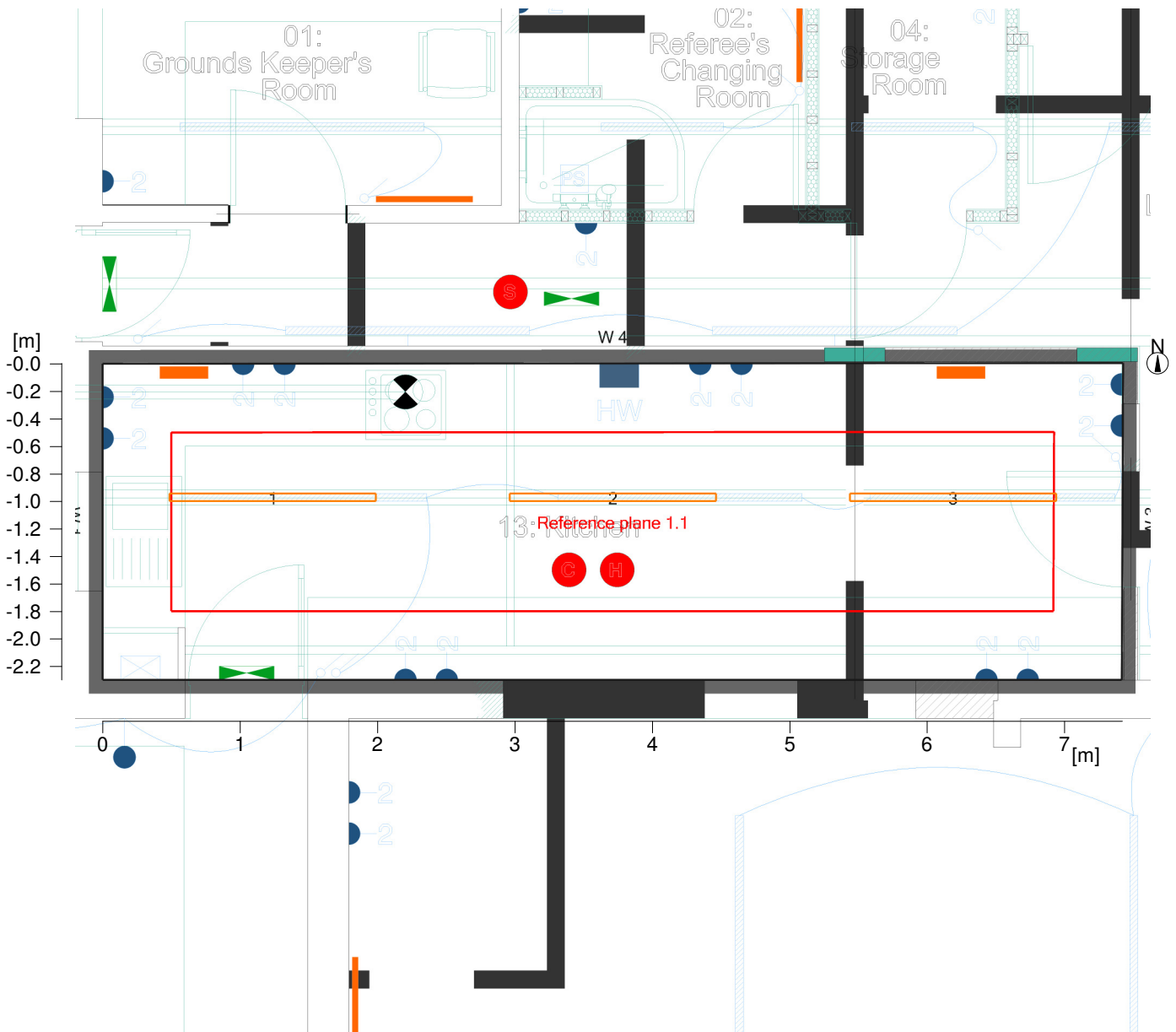
Dimensions : 55 mm x 1800 mm x 1 mm



2 Room 1

2.1 Description, Room 1

2.1.1 Floor plan

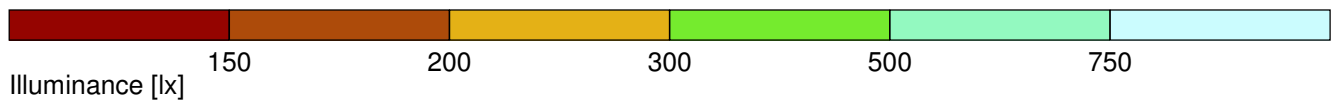
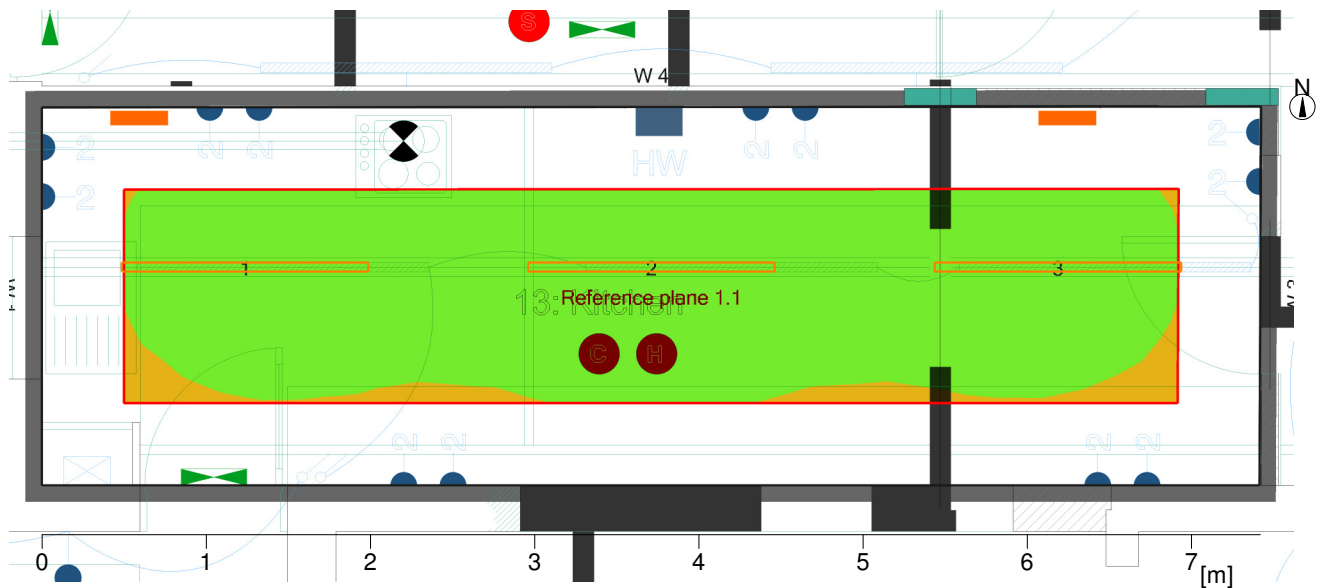


Wall	x	y	Length	Reflectance
1	3.76 m	8.67 m	2.30 m	72.1 %
2	11.17 m	8.67 m	7.41 m	72.1 %
3	11.18 m	10.97 m	2.30 m	72.1 %
4	3.76 m	10.97 m	7.42 m	72.1 %
Floor				20.0 %
Ceiling				100.0 %
Room height		2.40 m		
Height of ref. plane		0.75 m		

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 (17.06 m²)

8541.00 lm
 66.0 W
 3.87 W/m² (1.19 W/m²/100lx)

Evaluation area 1

Reference plane 1.1

Horizontal
 Em
 Emin
 Emin/Em (Uo)
 Emin/Emax (Ud)
 UGR (1.9H 6.2H)
 Position

325 lx
 263 lx
 0.81
 0.71
 <=25.6
 0.75 m

Major surfaces

M 1.5 (Ceiling)
 M 1.1 (Wall)
 M 1.2 (Wall)
 M 1.3 (Wall)
 M 1.4 (Wall)

Em
 111 lx
 204 lx
 210 lx
 202 lx
 224 lx

Uo
 0.95
 0.75
 0.74
 0.75
 0.68

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2 Room 1

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Type No.\Make

NET LED Lighting - Phone:01223851505

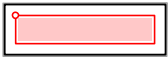
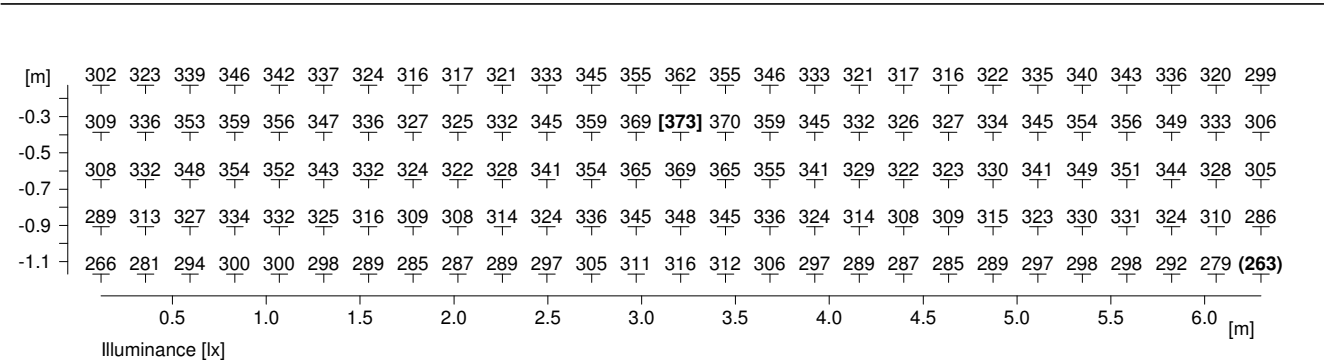
3	3	Order No.	: NET-11-11-93 (4000K).IES
		Luminaire name	: FOXTON 1500mm (5ft) 22W Tri-colour LED Linear Luminaire
		Equipment	: 1 x 22 W / 2847 lm



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 : 325 lx
Minimum illuminance	Emin : 263 lx
Maximum illuminance	Emax : 373 lx
Uniformity Uo	Emin/Em : 1 : 1.24 (0.81)
Diversity Ud	Emin/Emax : 1 : 1.42 (0.71)