

Ref's 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

1.8 NET LED Lighting - Phone:01223851505, DUXFORD 2D BH 4500K... (NET-11-06-XX (4500...))

1.8.1 Data sheet

Manufacturer: NET LED Lighting - Phone:01223851505

NET-11-06-XX (4500K).IES

DUXFORD 2D BH 4500K

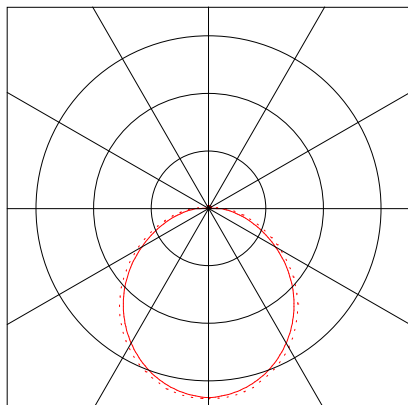
Luminaire data

Luminaire efficiency : 98.9%
Luminaire efficacy :
Classification : A41 ↓96.6% ↑3.4%
CIE Flux Codes : 46 76 93 97 99
UGR 4H 8H : 19.7 / 20.3
Luminous flux : 1393.5 lm

Equipped with

Quantity : 1
Designation :
Colour :
Luminous flux : 1409 lm

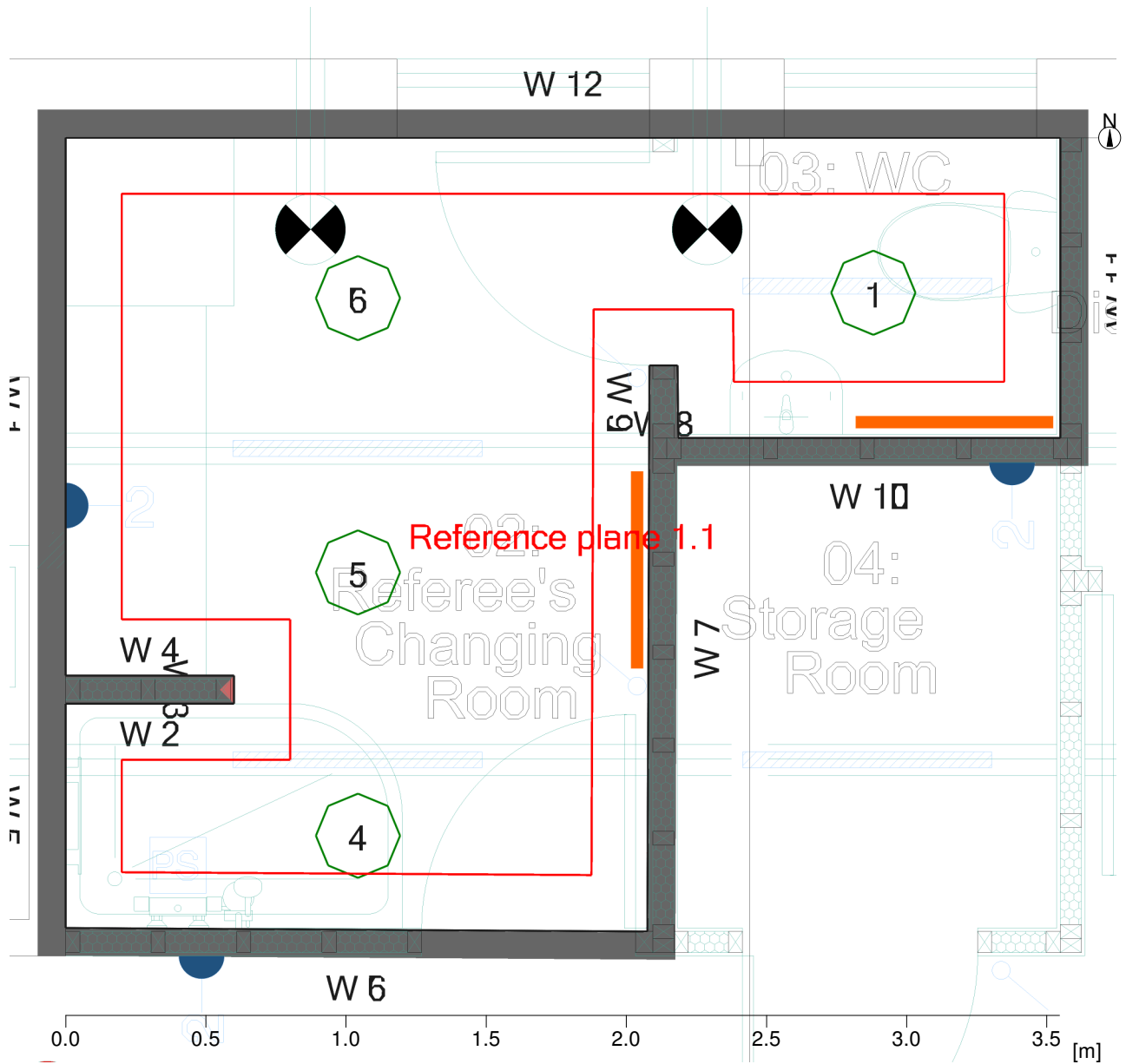
Dimensions : Ø300 mm x 110 mm



2 Room 1

2.1 Description, Room 1

2.1.1 Floor plan



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2 Room 1

2.1 Description, Room 1

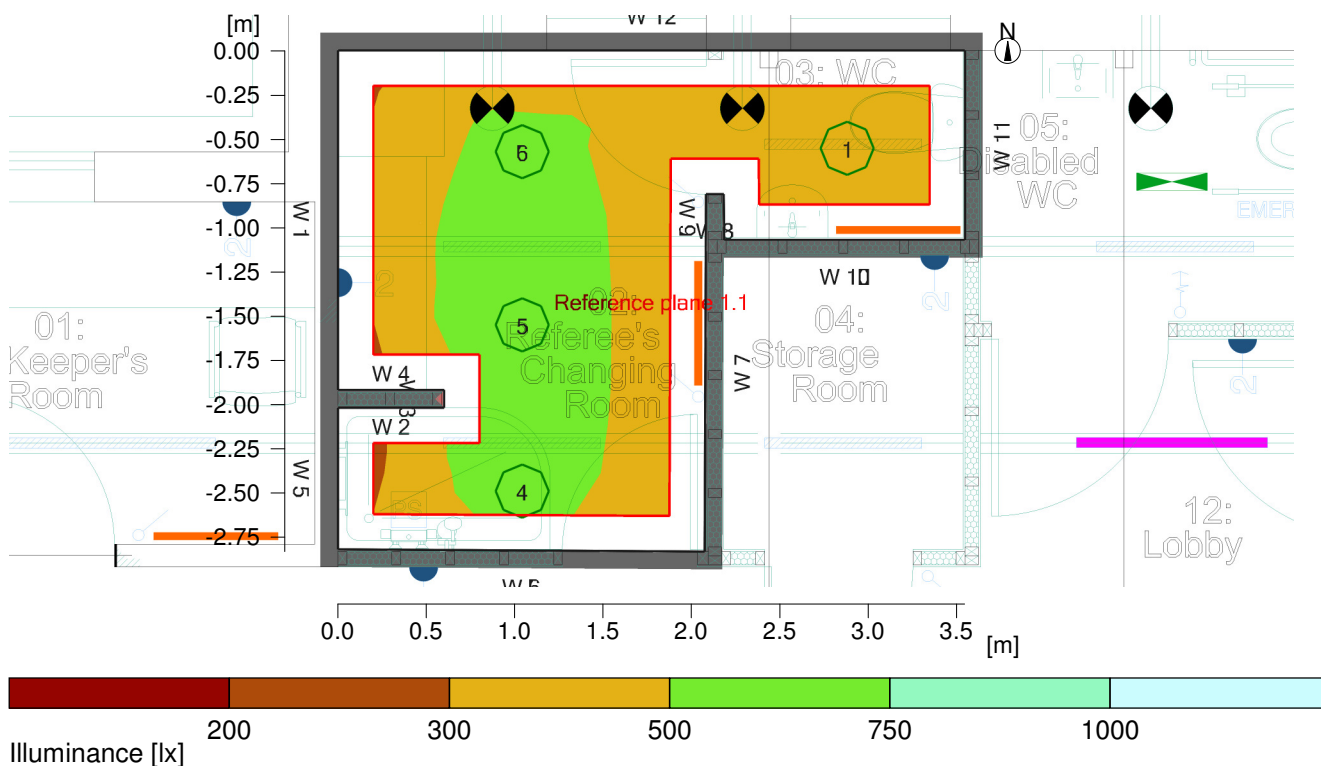
2.1.1 Floor plan

Wall	x	y	Length	Reflectance
1	21.13 m	12.99 m	1.92 m	72.1 %
2	21.73 m	12.99 m	0.60 m	72.1 %
3	21.73 m	12.89 m	0.10 m	72.1 %
4	21.13 m	12.89 m	0.60 m	72.1 %
5	21.13 m	12.09 m	0.80 m	72.1 %
6	23.21 m	12.07 m	2.07 m	72.1 %
7	23.22 m	14.09 m	2.02 m	72.1 %
8	23.32 m	14.09 m	0.10 m	72.1 %
9	23.32 m	13.83 m	0.26 m	72.1 %
10	24.68 m	13.83 m	1.36 m	72.1 %
11	24.68 m	14.91 m	1.07 m	72.1 %
12	21.13 m	14.91 m	3.55 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
 1.90 m
 0.80

Total luminous flux of all lamps

5636.00 lm

Evaluation area 1

Reference plane 1.1

Horizontal
 Em 471 lx
 Emin 360 lx
 Emin/Em (Uo) 0.76
 Emin/Emax (Ud) 0.60
 Position 0.75 m

Major surfaces

Major surfaces	Em	Uo
M 1.10 (Ceiling)	131 lx	0.84
M 1.1 (Wall)	215 lx	0.54
M 1.2 (Wall)	185 lx	0.53
M 1.3 (Wall)	171 lx	0.55
M 1.4 (Wall)	178 lx	0.52
M 1.5 (Wall)	289 lx	0.38
M 1.6 (Wall)	228 lx	0.55
M 1.7 (Wall)	267 lx	0.47
M 1.8 (Wall)	248 lx	0.50
M 1.9 (Wall)	253 lx	0.54

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2 Room 1

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2.2.1 Result overview, Evaluation area 1

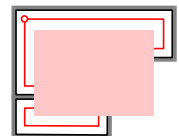
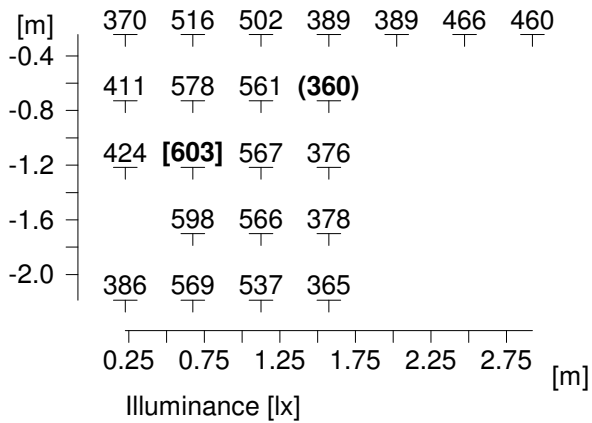
Type No.\Make

8 4 **NET LED Lighting - Phone:01223851505**
 Order No. : NET-11-06-XX (4500K).IES
Luminaire name : DUXFORD 2D BH 4500K
Equipment : 1 x / 1409 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 : 471 lx
Minimum illuminance	Emin : 360 lx
Maximum illuminance	Emax : 603 lx
Uniformity Uo	Emin/Em : 1 : 1.31 (0.76)
Diversity Ud	Emin/Emax : 1 : 1.67 (0.60)