



# Twickenham Learning Centre

Installation : Lighting Models

Project number :

Customer : Co2 Target

Processed by :

Date : 25.04.2024

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.

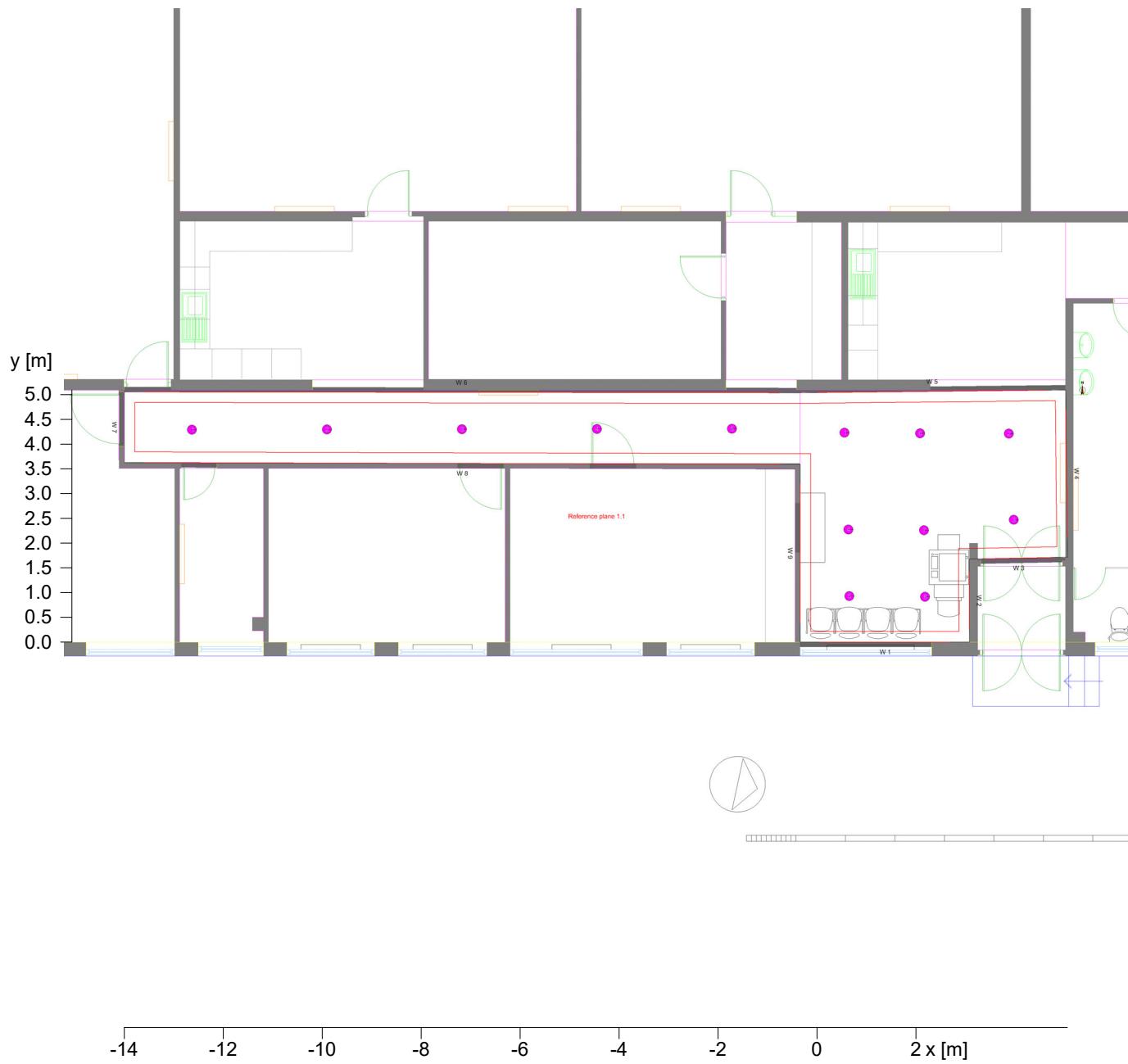
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Installation : Lighting Models  
Project number :  
Date : 25.04.2024

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## 1 Reception Area and Main Corridor

### 1.1 Description, Reception Area and Main Corridor

#### 1.1.1 Floor plan



Object : Twickenham Learning Centre  
Installation : Lighting Models  
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## 1 Reception Area and Main Corridor

### 1.1 Description, Reception Area and Main Corridor

#### 1.1.1 Floor plan

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Wall	x	y	Length	Reflectance
1	28.62 m	43.03 m	3.42 m	50.0 %
2	28.61 m	44.71 m	1.68 m	50.0 %
3	30.60 m	44.74 m	1.99 m	50.0 %
4	30.57 m	48.12 m	3.38 m	50.0 %
5	25.16 m	48.07 m	5.40 m	50.0 %
6	11.54 m	48.08 m	13.62 m	50.0 %
7	11.54 m	46.66 m	1.42 m	50.0 %
8	25.20 m	46.62 m	13.66 m	50.0 %
9	25.20 m	43.03 m	3.59 m	50.0 %
Floor				20.0 %
Ceiling				70.0 %
Room height			2.60 m	
Height of ref. plane			0.00 m	

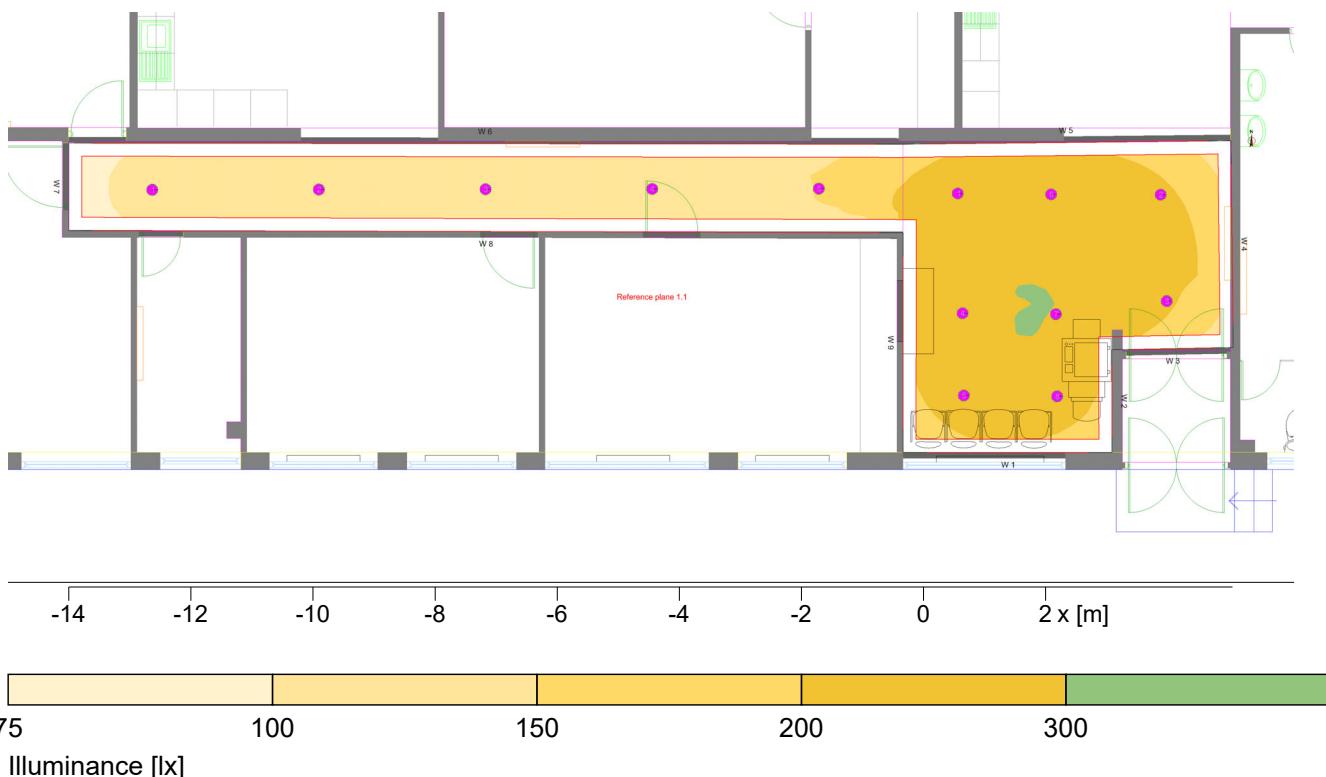
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## 1 Reception Area and Main Corridor

### 1.2 Summary, Reception Area and Main Corridor

#### 1.2.1 Result overview, Evaluation area 1



#### General

Calculation algorithm used	Average indirect fraction
Height of luminaire plane	2.60 m
Maintenance factor	0.80
Total luminous flux	18525.00 lm
Total power	144.3 W
Total power per area (43.53 m <sup>2</sup> )	3.31 W/m <sup>2</sup> (1.69 W/m <sup>2</sup> /100lx)

#### Evaluation area 1

#### Reference plane 1.1

$\bar{E}_m$	Horizontal	cylindrical
$E_{min}$	196 lx	124 lx
$E_{min}/\bar{E}_m (U_o)$	83 lx	66 lx
$E_{min}/E_{max} (U_d)$	0.42	0.53
$E_z/E_h$	0.27	0.38
Position	0.00 m	1.60 m

#### Major surfaces

M 1.9 (Ceiling)	$\bar{E}_m$	$U_o$
M 1.1 (Wall)	53 lx	0.62
M 1.2 (Wall)	178 lx	0.76
M 1.3 (Wall)	170 lx	0.69
M 1.4 (Wall)	157 lx	0.64
M 1.5 (Wall)	146 lx	0.84
M 1.6 (Wall)	170 lx	0.65
M 1.7 (Wall)	108 lx	0.51
M 1.8 (Wall)	109 lx	0.50
	177 lx	0.77

Object : Twickenham Learning Centre  
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## 1 Reception Area and Main Corridor

### 1.2 Summary, Reception Area and Main Corridor

#### 1.2.1 Result overview, Evaluation area 1

##### Type No.\Make

		Spurlite Ltd
2	13 x	Order No. : 37 Series
		Luminaire name : Boxer II 15
		Equipment : 1 x LED 11.1 W / 1425 lm



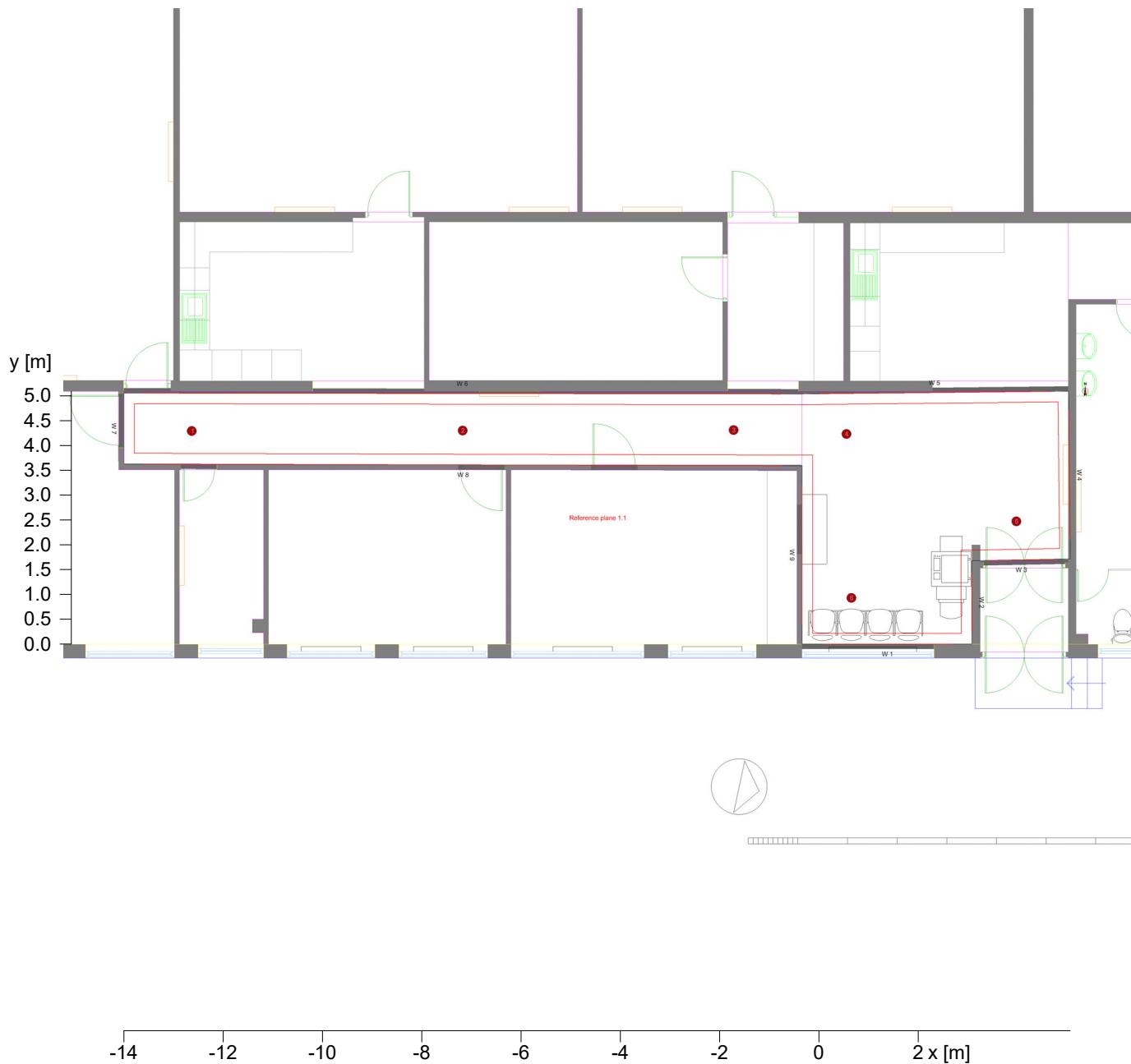
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## 2 Reception Area and Main Corridor EM

### 2.1 Description, Reception Area and Main Corridor EM

#### 2.1.1 Floor plan



Object : Twickenham Learning Centre  
Installation : Lighting Models  
Project number :  
Date : 25.04.2024



## 2 Reception Area and Main Corridor EM

### 2.1 Description, Reception Area and Main Corridor EM

#### 2.1.1 Floor plan

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Wall	x	y	Length	Reflectance
1	28.62 m	43.03 m	3.42 m	50.0 %
2	28.61 m	44.71 m	1.68 m	50.0 %
3	30.60 m	44.74 m	1.99 m	50.0 %
4	30.57 m	48.12 m	3.38 m	50.0 %
5	25.16 m	48.07 m	5.40 m	50.0 %
6	11.54 m	48.08 m	13.62 m	50.0 %
7	11.54 m	46.66 m	1.42 m	50.0 %
8	25.20 m	46.62 m	13.66 m	50.0 %
9	25.20 m	43.03 m	3.59 m	50.0 %
Floor				20.0 %
Ceiling				70.0 %
Room height			2.60 m	
Height of ref. plane			0.00 m	

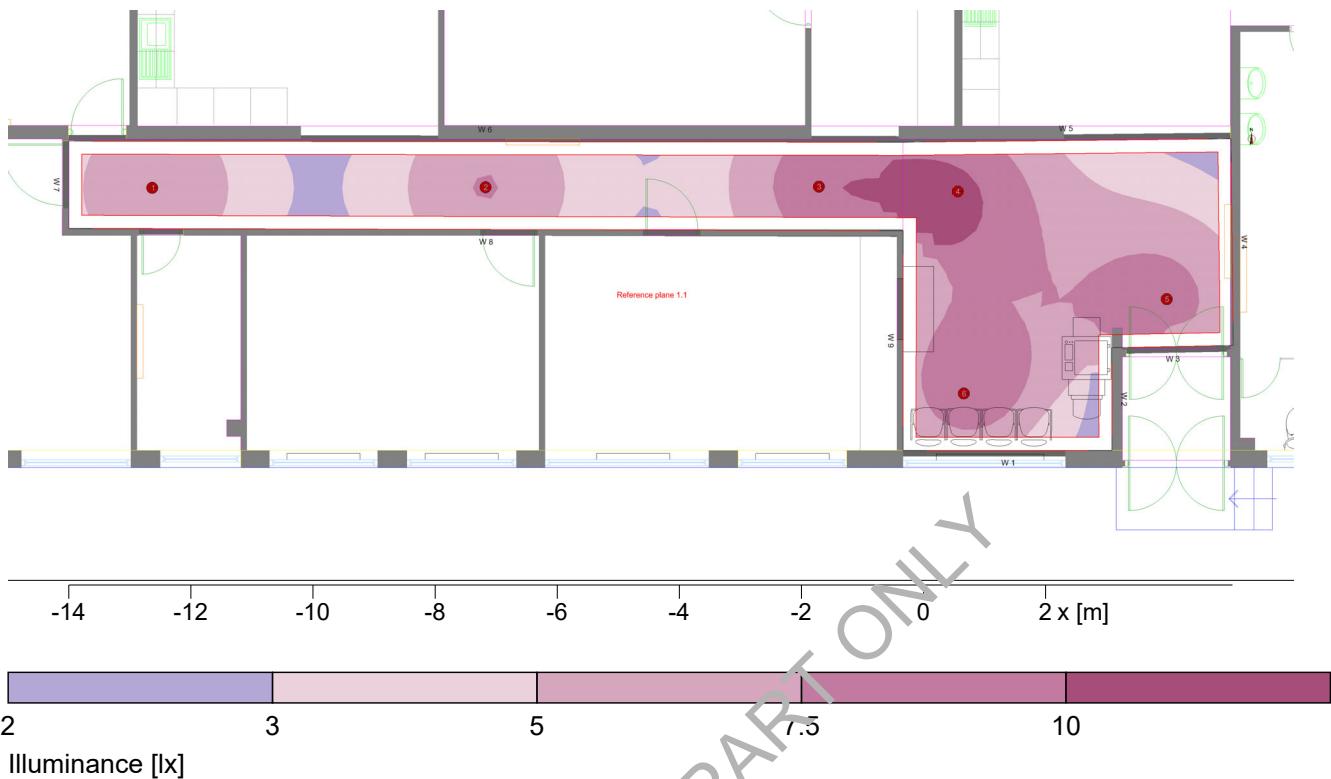
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## 2 Reception Area and Main Corridor EM

### 2.2 Summary, Reception Area and Main Corridor EM

#### 2.2.1 Result overview, Evaluation area 1



#### General

Calculation algorithm used

Direct component

Height of luminaire plane

2.60 m

Maintenance factor

0.80

Total luminous flux

930.00 lm

Total power

66.6 W

Total power per area (43.53 m<sup>2</sup>)

1.53 W/m<sup>2</sup> (23.11 W/m<sup>2</sup>/100lx)

#### Evaluation area 1

#### Reference plane 1.1

$\bar{E}_m$	Horizontal	cylindrical
$E_{min}$	6.62 lx	3.17 lx
$E_{min}/\bar{E}_m (U_o)$	2.48 lx	0.65 lx
$E_{min}/E_{max} (U_d)$	0.38	0.20
$E_z/E_h$	0.22	
Position	0.00 m	0.24
		1.60 m

#### Major surfaces

	$\bar{E}_m$	$U_o$
M 1.9 (Ceiling)	0 lx	---
M 1.1 (Wall)	5.28 lx	0.13
M 1.2 (Wall)	1.74 lx	0.28
M 1.3 (Wall)	8.57 lx	0.33
M 1.4 (Wall)	4.46 lx	0.13
M 1.5 (Wall)	4.28 lx	0.13
M 1.6 (Wall)	4.31 lx	0.05
M 1.7 (Wall)	4.39 lx	0.05
M 1.8 (Wall)	5.43 lx	0.38

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## 2 Reception Area and Main Corridor EM

### 2.2 Summary, Reception Area and Main Corridor EM

#### 2.2.1 Result overview, Evaluation area 1

Type No.\Make

5 6 x  **Spurlite Ltd**  
Order No. : !37 Series  
Luminaire name : Boxer II 15 EM  
Equipment : 1 x LED 11.1 W / 155 lm

DIRECT PART ONLY

Object : Twickenham Learning Centre  
 Installation : Lighting Models  
 Project number :  
 Date : 25.04.2024

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### 3 Meeting room 1

#### 3.1 Description, Meeting room 1

##### 3.1.1 Floor plan



Wall	x	y	Length	Reflectance
1	39.44 m	51.80 m	1.80 m	50.0 %
2	39.44 m	53.65 m	1.85 m	50.0 %
3	46.47 m	53.67 m	7.02 m	50.0 %
4	46.55 m	57.36 m	3.69 m	50.0 %
5	46.28 m	57.38 m	0.27 m	50.0 %
6	46.25 m	57.62 m	0.23 m	50.0 %
7	37.69 m	57.60 m	8.56 m	50.0 %
8	37.65 m	51.82 m	5.79 m	50.0 %
Floor				20.0 %
Ceiling				70.0 %
Room height	2.60 m			
Height of ref. plane	0.75 m			

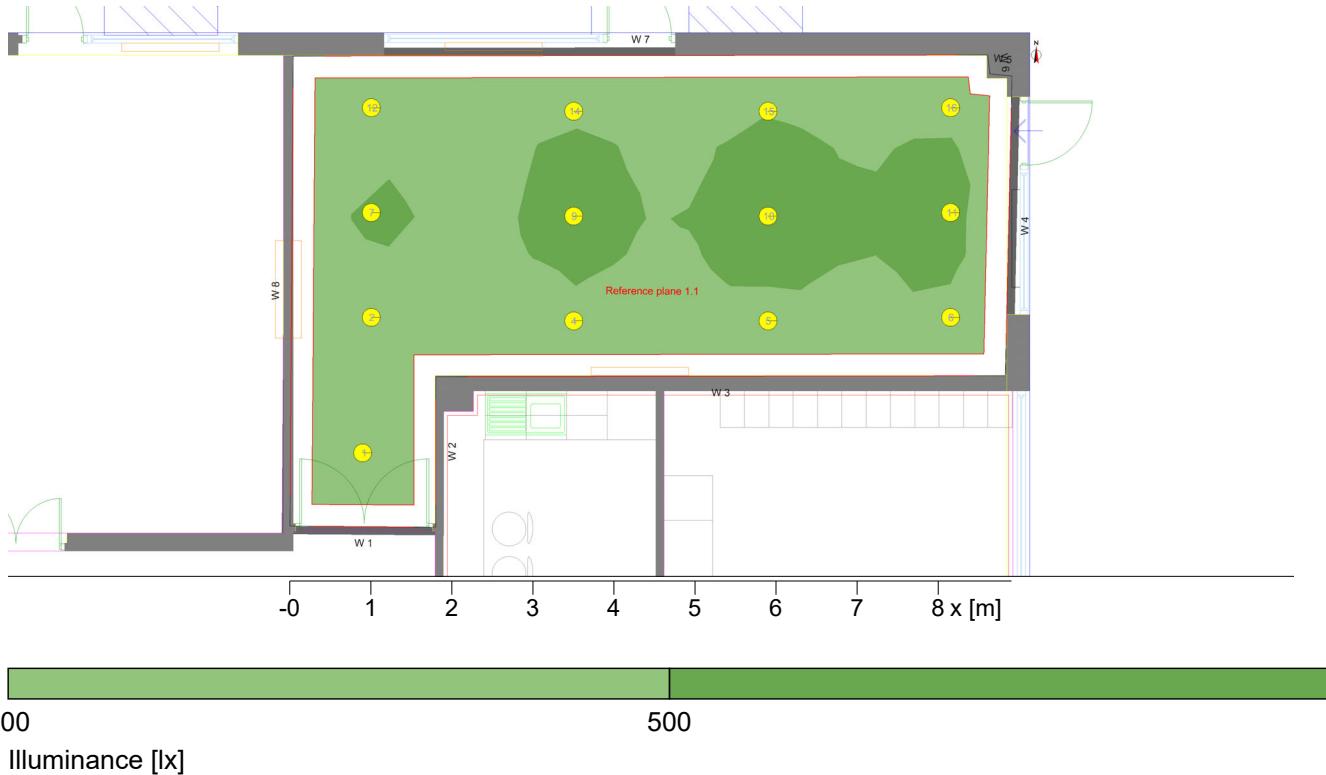
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### 3 Meeting room 1

#### 3.2 Summary, Meeting room 1

##### 3.2.1 Result overview, Evaluation area 1



#### General

Calculation algorithm used	Average indirect fraction
Height of luminaire plane	2.60 m
Maintenance factor	0.80
Total luminous flux	28405.00 lm
Total power	299.0 W
Total power per area (38.13 m <sup>2</sup> )	7.84 W/m <sup>2</sup> (1.67 W/m <sup>2</sup> /100lx)

#### Evaluation area 1

#### Reference plane 1.1

	Horizontal	cylindrical
$\bar{E}_m$	469 lx	212 lx
$E_{min}$	334 lx	133 lx
$E_{min}/\bar{E}_m (U_o)$	0.71	0.63
$E_{min}/E_{max} (U_d)$	0.62	
$E_z/E_h$		0.40
Position	0.75 m	1.20 m

#### Major surfaces

M 1.7 (Ceiling)	$\bar{E}_m$	$U_o$
M 1.1 (Wall)	103 lx	0.89
M 1.2 (Wall)	216 lx	0.68
M 1.3 (Wall)	214 lx	0.58
M 1.4 (Wall)	284 lx	0.63
M 1.5 (Wall)	332 lx	0.66
M 1.6 (Wall)	283 lx	0.64
	268 lx	0.53

Object : Twickenham Learning Centre  
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### 3 Meeting room 1

#### 3.2 Summary, Meeting room 1

##### 3.2.1 Result overview, Evaluation area 1

Type No.\Make

		Spurlite Ltd
1	13 x	Order No. : Boxer II 23w
		Luminaire name : Boxer II 23w
		Equipment : 1 x LED 23 W / 2185 lm



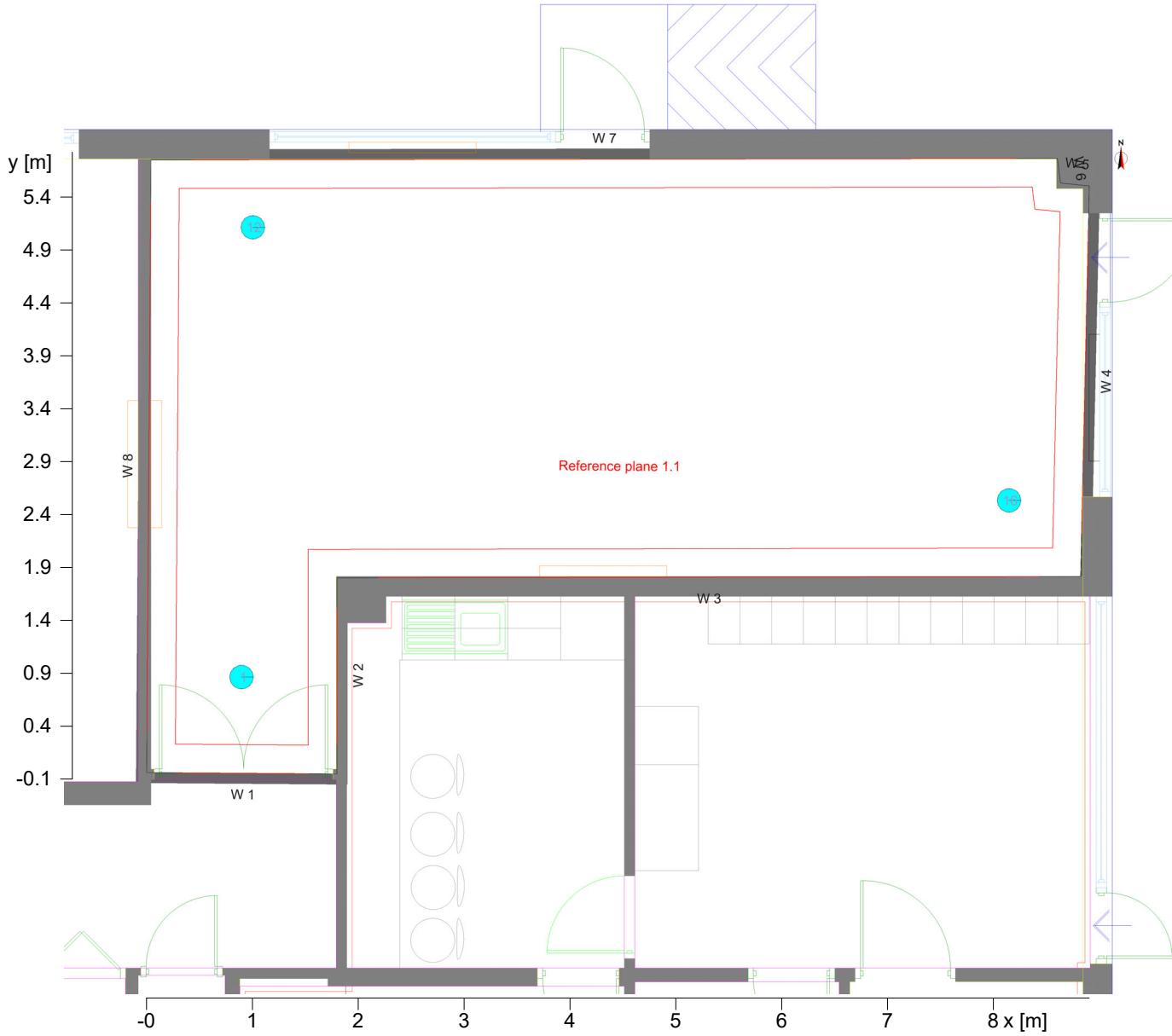
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## 4 Meeting room 1 Em

### 4.1 Description, Meeting room 1 Em

#### 4.1.1 Floor plan



Wall	x	y	Length	Reflectance
1	39.44 m	51.80 m	1.80 m	50.0 %
2	39.44 m	53.65 m	1.85 m	50.0 %
3	46.47 m	53.67 m	7.02 m	50.0 %
4	46.55 m	57.36 m	3.69 m	50.0 %
5	46.28 m	57.38 m	0.27 m	50.0 %
6	46.25 m	57.62 m	0.23 m	50.0 %
7	37.69 m	57.60 m	8.56 m	50.0 %
8	37.65 m	51.82 m	5.79 m	50.0 %
Floor				20.0 %
Ceiling				70.0 %
Room height			2.60 m	
Height of ref. plane			0.00 m	

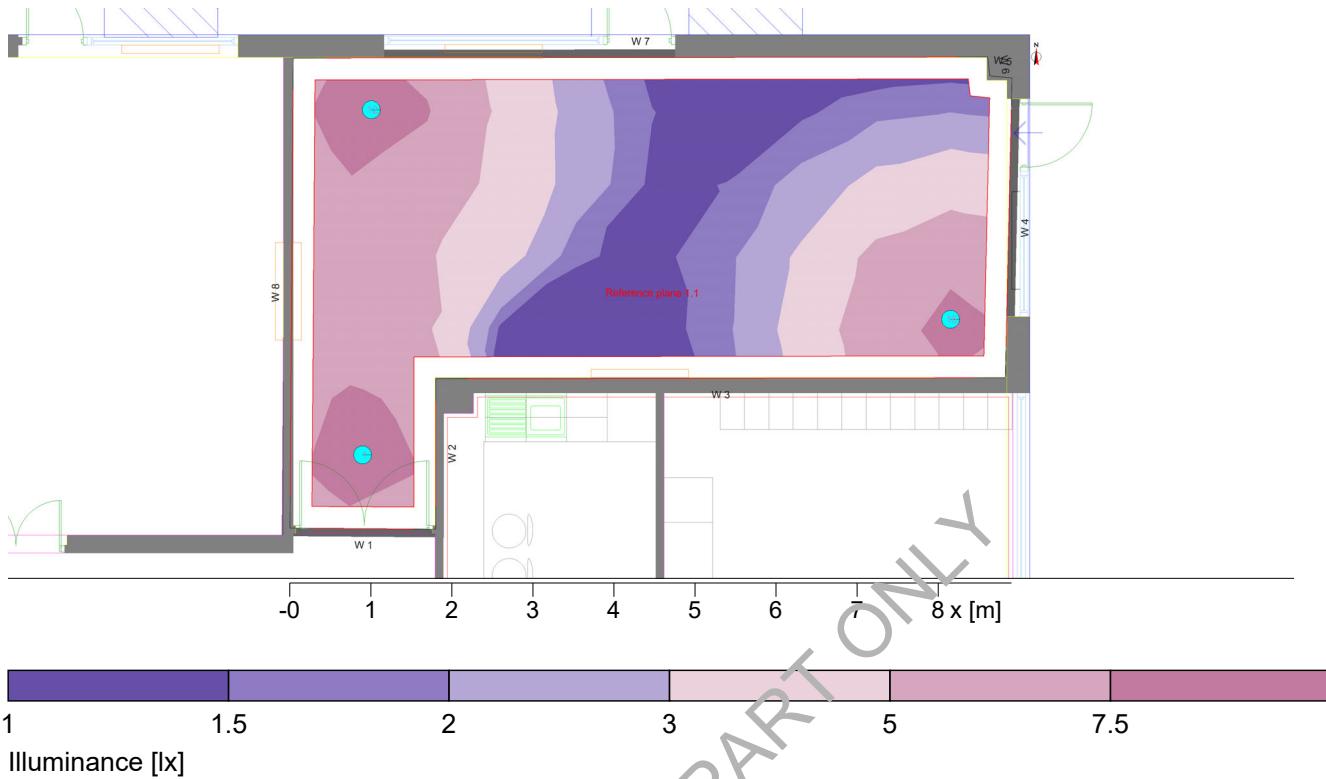
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## 4 Meeting room 1 Em

### 4.2 Summary, Meeting room 1 Em

#### 4.2.1 Result overview, Evaluation area 1



#### General

Calculation algorithm used

Direct component

Height of luminaire plane

2.60 m

Maintenance factor

0.80

Total luminous flux

555.00 lm

Total power

69.0 W

Total power per area (38.13 m<sup>2</sup>)

1.81 W/m<sup>2</sup> (45.52 W/m<sup>2</sup>/100lx)

#### Evaluation area 1

#### Reference plane 1.1

	Horizontal	cylindrical
$\bar{E}_m$	3.98 lx	1.75 lx
$E_{min}$	1.13 lx	0.26 lx
$E_{min}/\bar{E}_m (U_o)$	0.28	0.15
$E_{min}/E_{max} (U_d)$	0.13	
$E_z/E_h$		0.22
Position	0.00 m	1.60 m

#### Major surfaces

	$\bar{E}_m$	$U_o$
M 1.7 (Ceiling)	0 lx	---
M 1.1 (Wall)	9.08 lx	0.40
M 1.2 (Wall)	8.94 lx	0.37
M 1.3 (Wall)	2.67 lx	0.04
M 1.4 (Wall)	5.43 lx	0.06
M 1.5 (Wall)	2.89 lx	0.04
M 1.6 (Wall)	5.76 lx	0.16

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## 4 Meeting room 1 Em

### 4.2 Summary, Meeting room 1 Em

#### 4.2.1 Result overview, Evaluation area 1

Type No.\Make

6 3 x  **Spurlite Ltd**  
Order No. : !Boxer II 23w  
Luminaire name : Boxer II 23w EM  
Equipment : 1 x LED 23 W / 185 lm

DIRECT PART ONLY

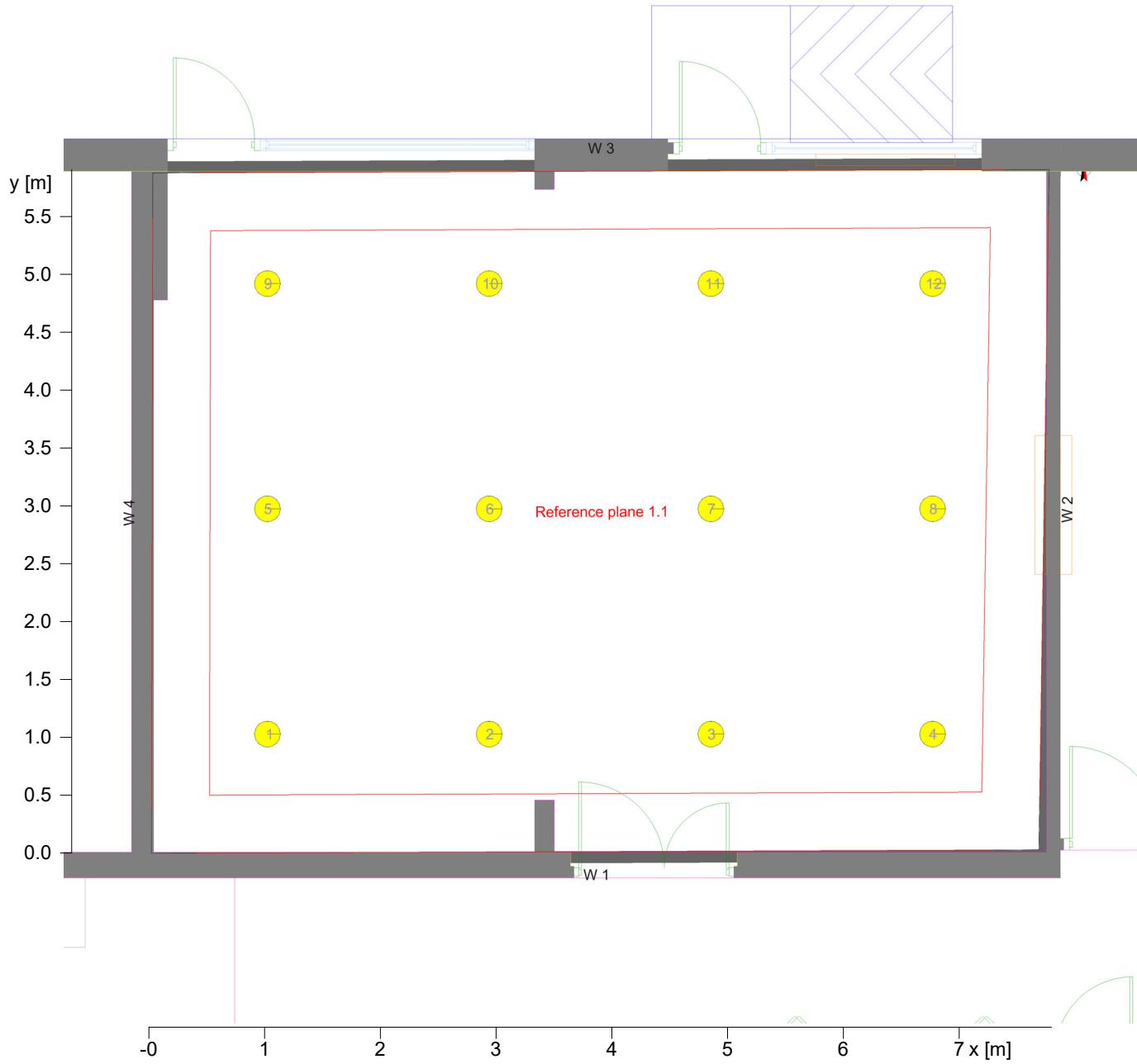
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## 5 Meeting room 2

### 5.1 Description, Meeting room 2

#### 5.1.1 Floor plan



Wall	x	y	Length	Reflectance
1	37.50 m	51.75 m	7.66 m	50.0 %
2	37.59 m	57.63 m	5.87 m	50.0 %
3	29.85 m	57.60 m	7.74 m	50.0 %
4	29.84 m	51.72 m	5.87 m	50.0 %
Floor				20.0 %
Ceiling				70.0 %
Room height		2.60 m		
Height of ref. plane		0.75 m		

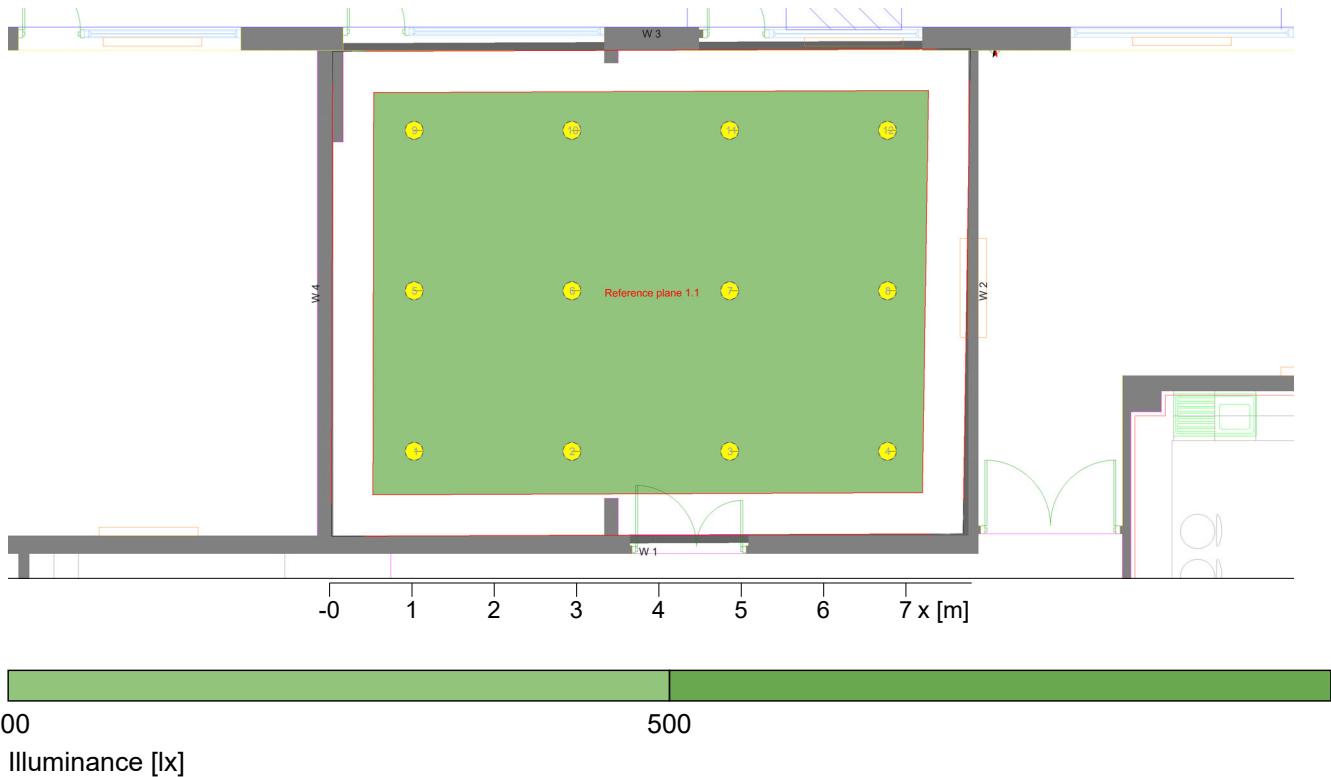
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## 5 Meeting room 2

### 5.2 Summary, Meeting room 2

#### 5.2.1 Result overview, Evaluation area 1



#### General

Calculation algorithm used	Average indirect fraction
Height of luminaire plane	2.60 m
Maintenance factor	0.80
Total luminous flux	26220.00 lm
Total power	276.0 W
Total power per area (45.24 m <sup>2</sup> )	6.10 W/m <sup>2</sup> (1.45 W/m <sup>2</sup> /100lx)

#### Evaluation area 1

#### Reference plane 1.1

$\bar{E}_m$	Horizontal	cylindrical
$E_{min}$	420 lx	188 lx
$E_{min}/\bar{E}_m (U_o)$	361 lx	137 lx
$E_{min}/E_{max} (U_d)$	0.86	0.73
$E_z/E_h$	0.76	0.41
Position	0.75 m	1.20 m

#### Major surfaces

M	$\bar{E}_m$	$U_o$
M 1.5 (Ceiling)	82 lx	0.98
M 1.1 (Wall)	231 lx	0.73
M 1.2 (Wall)	232 lx	0.75
M 1.3 (Wall)	235 lx	0.73
M 1.4 (Wall)	228 lx	0.75

Type No.\Make

Object : Twickenham Learning Centre  
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## 5 Meeting room 2

### 5.2 Summary, Meeting room 2

#### 5.2.1 Result overview, Evaluation area 1

1 12 x  **Spurlite Ltd**  
Order No. : Boxer II 23w  
Luminaire name : Boxer II 23w  
Equipment : 1 x LED 23 W / 2185 lm

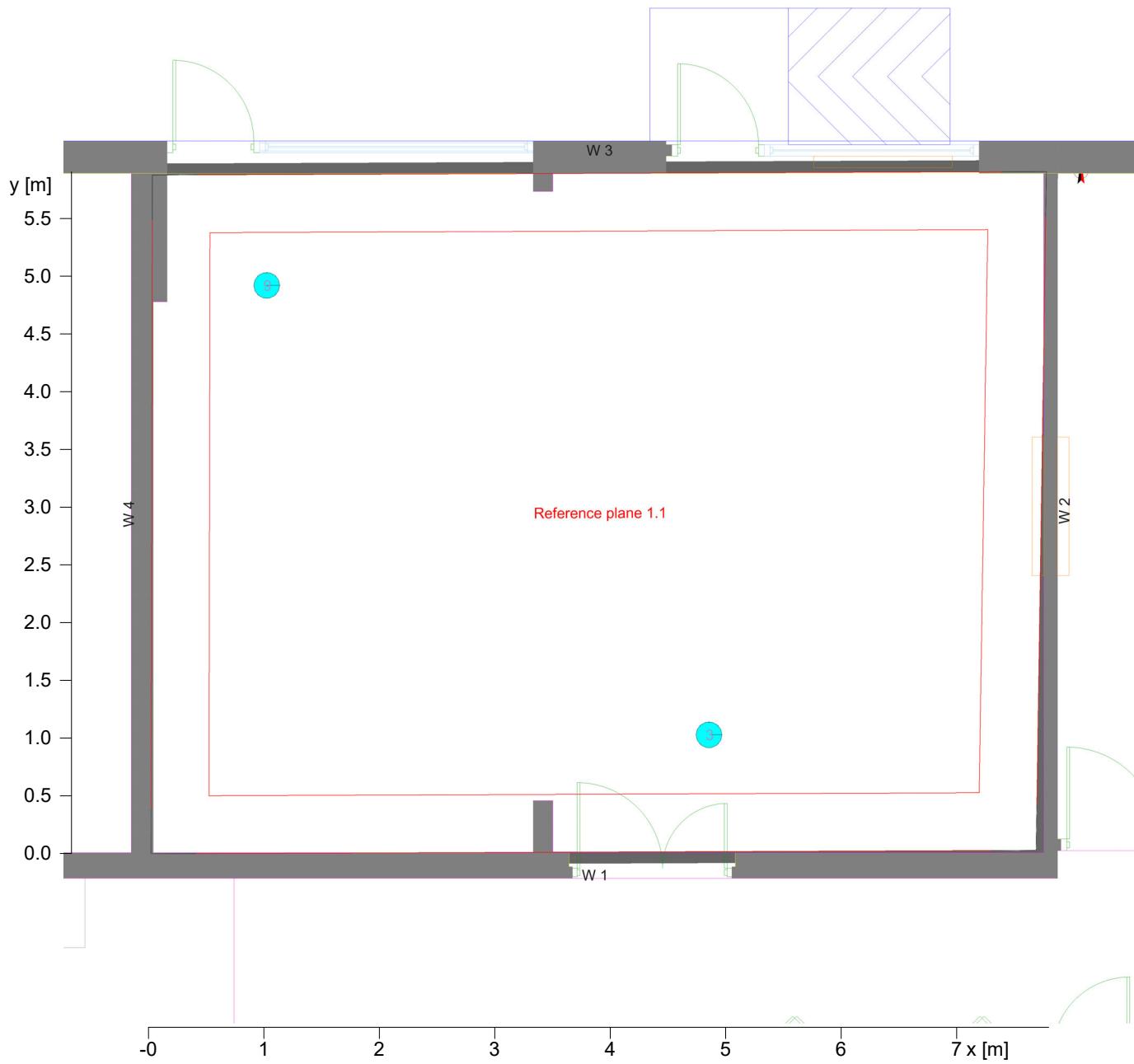
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## 6 Meeting room 2 EM

### 6.1 Description, Meeting room 2 EM

#### 6.1.1 Floor plan



Wall	x	y	Length	Reflectance
1	37.50 m	51.75 m	7.66 m	50.0 %
2	37.59 m	57.63 m	5.87 m	50.0 %
3	29.85 m	57.60 m	7.74 m	50.0 %
4	29.84 m	51.72 m	5.87 m	50.0 %
Floor				20.0 %
Ceiling				70.0 %
Room height		2.60 m		
Height of ref. plane		0.00 m		

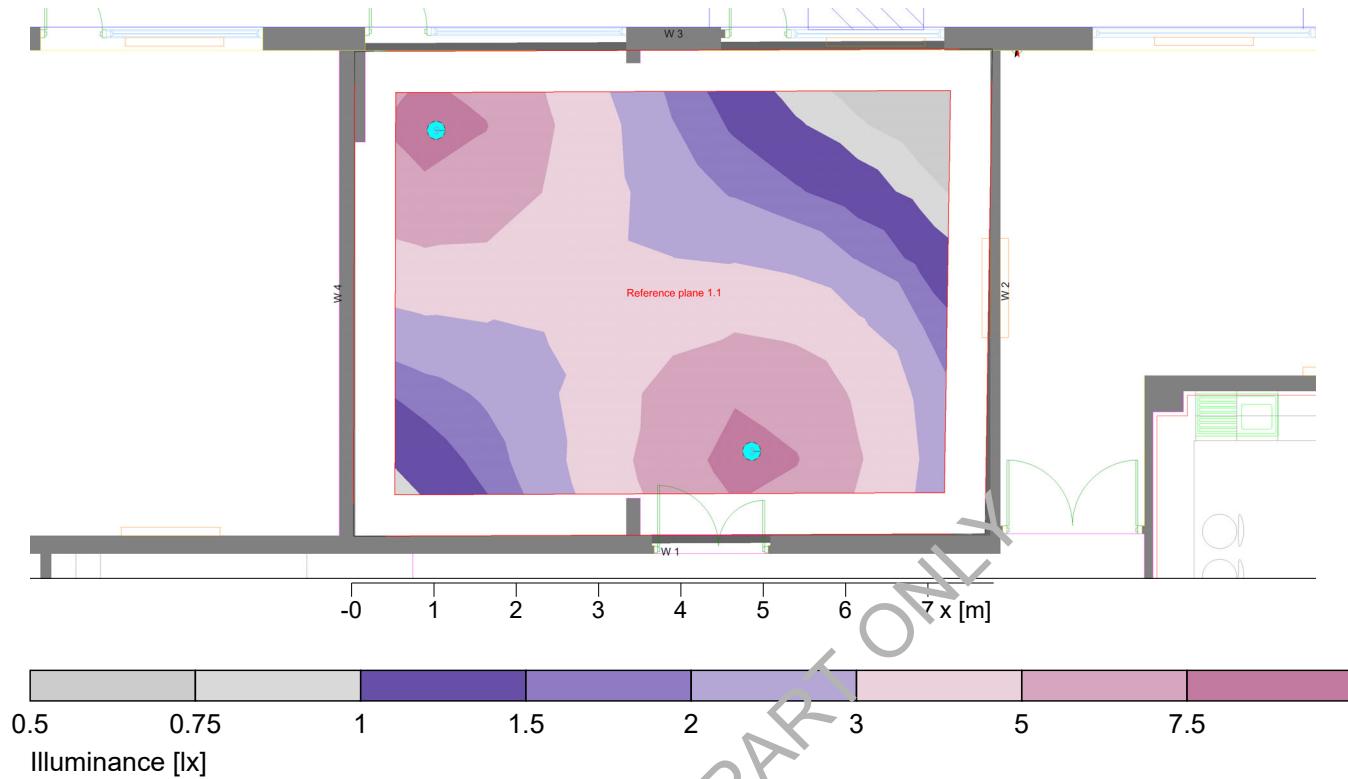
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## 6 Meeting room 2 EM

### 6.2 Summary, Meeting room 2 EM

#### 6.2.1 Result overview, Evaluation area 1



#### General

Calculation algorithm used

Direct component

Height of luminaire plane

2.60 m

Maintenance factor

0.80

Total luminous flux

370.00 lm

Total power

46.0 W

Total power per area (45.24 m<sup>2</sup>)

1.02 W/m<sup>2</sup> (27.96 W/m<sup>2</sup>/100lx)

#### Evaluation area 1

#### Reference plane 1.1

$\bar{E}_m$	Horizontal	cylindrical
$E_{min}$	3.64 lx	1.59 lx
$E_{min}/\bar{E}_m (U_o)$	0.58 lx	0.12 lx
$E_{min}/E_{max} (U_d)$	0.16	0.08
$E_{max}/\bar{E}_m (U_d)$	0.07	
$E_z/E_h$		0.27
Position	0.00 m	1.60 m

#### Major surfaces

M	$\bar{E}_m$	$U_o$
M 1.5 (Ceiling)	0 lx	---
M 1.1 (Wall)	3.05 lx	0.03
M 1.2 (Wall)	0.82 lx	0.07
M 1.3 (Wall)	2.49 lx	0.02
M 1.4 (Wall)	3.18 lx	0.03

Type No.\Make

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## 6 Meeting room 2 EM

### 6.2 Summary, Meeting room 2 EM

#### 6.2.1 Result overview, Evaluation area 1

6 2 x  **Spurlite Ltd**  
Order No. : !Boxer II 23w  
Luminaire name : Boxer II 23w EM  
Equipment : 1 x LED 23 W / 185 lm

DIRECT PART ONLY

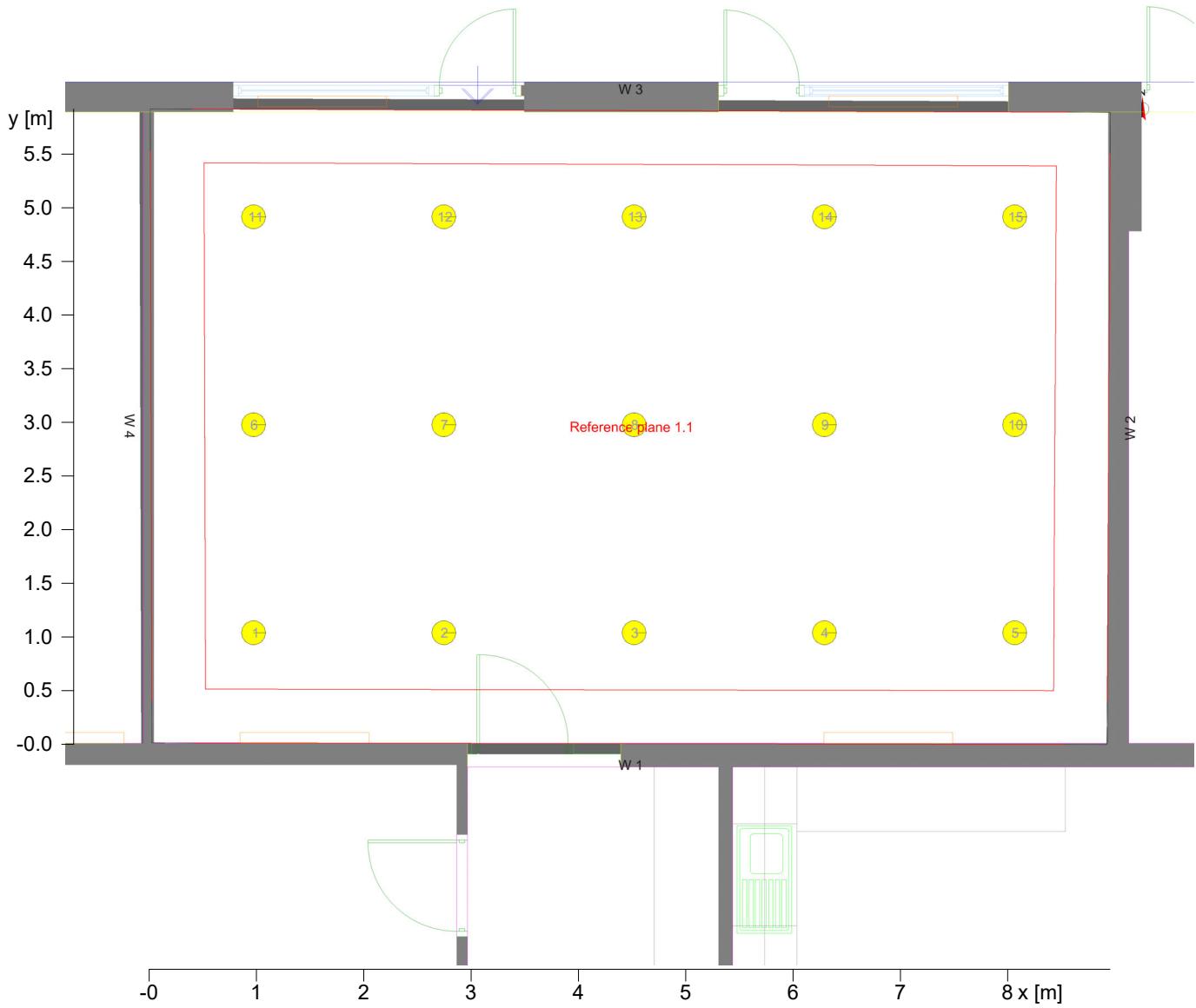
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## 7 Meeting room 3

### 7.1 Description, Meeting room 3

#### 7.1.1 Floor plan



Wall	x	y	Length	Reflectance
1	29.66 m	51.72 m	8.90 m	50.0 %
2	29.69 m	57.61 m	5.89 m	50.0 %
3	20.74 m	57.64 m	8.94 m	50.0 %
4	20.76 m	51.74 m	5.90 m	50.0 %
Floor				20.0 %
Ceiling				70.0 %
Room height		2.60 m		
Height of ref. plane		0.75 m		

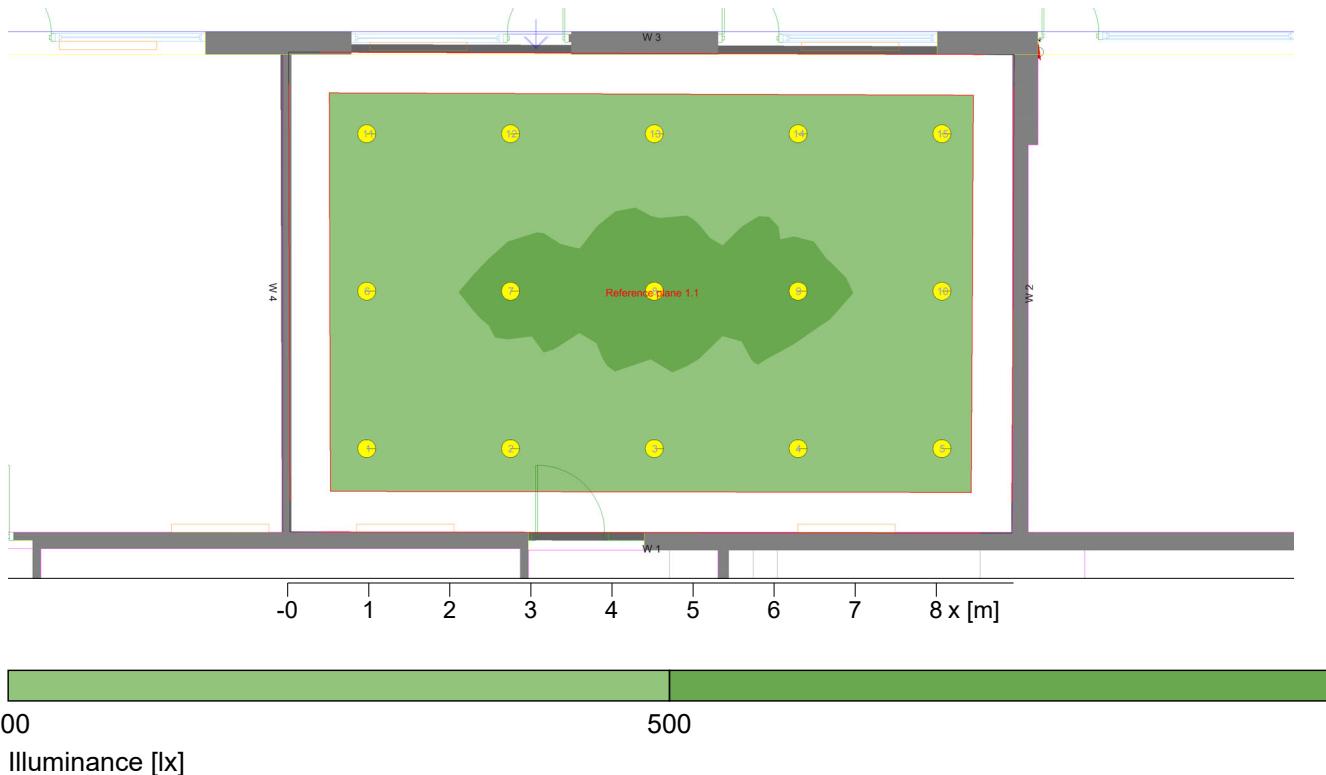
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## 7 Meeting room 3

### 7.2 Summary, Meeting room 3

#### 7.2.1 Result overview, Evaluation area 1



#### General

Calculation algorithm used	Average indirect fraction
Height of luminaire plane	2.60 m
Maintenance factor	0.80
Total luminous flux	32775.00 lm
Total power	345.0 W
Total power per area (52.58 m <sup>2</sup> )	6.56 W/m <sup>2</sup> (1.43 W/m <sup>2</sup> /100lx)

#### Evaluation area 1

#### Reference plane 1.1

$\bar{E}_m$	Horizontal	cylindrical
$E_{min}$	460 lx	205 lx
$E_{min}/\bar{E}_m (U_o)$	389 lx	147 lx
$E_{min}/E_{max} (U_d)$	0.85	0.72
$E_z/E_h$	0.75	0.41
Position	0.75 m	1.20 m

#### Major surfaces

M 1.5 (Ceiling)	$\bar{E}_m$	$U_o$
M 1.1 (Wall)	90 lx	0.98
M 1.2 (Wall)	250 lx	0.73
M 1.3 (Wall)	255 lx	0.74
M 1.4 (Wall)	254 lx	0.72
	245 lx	0.76

Type No.\Make

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## 7 Meeting room 3

### 7.2 Summary, Meeting room 3

#### 7.2.1 Result overview, Evaluation area 1

1 15 x  **Spurlite Ltd**  
Order No. : Boxer II 23w  
Luminaire name : Boxer II 23w  
Equipment : 1 x LED 23 W / 2185 lm

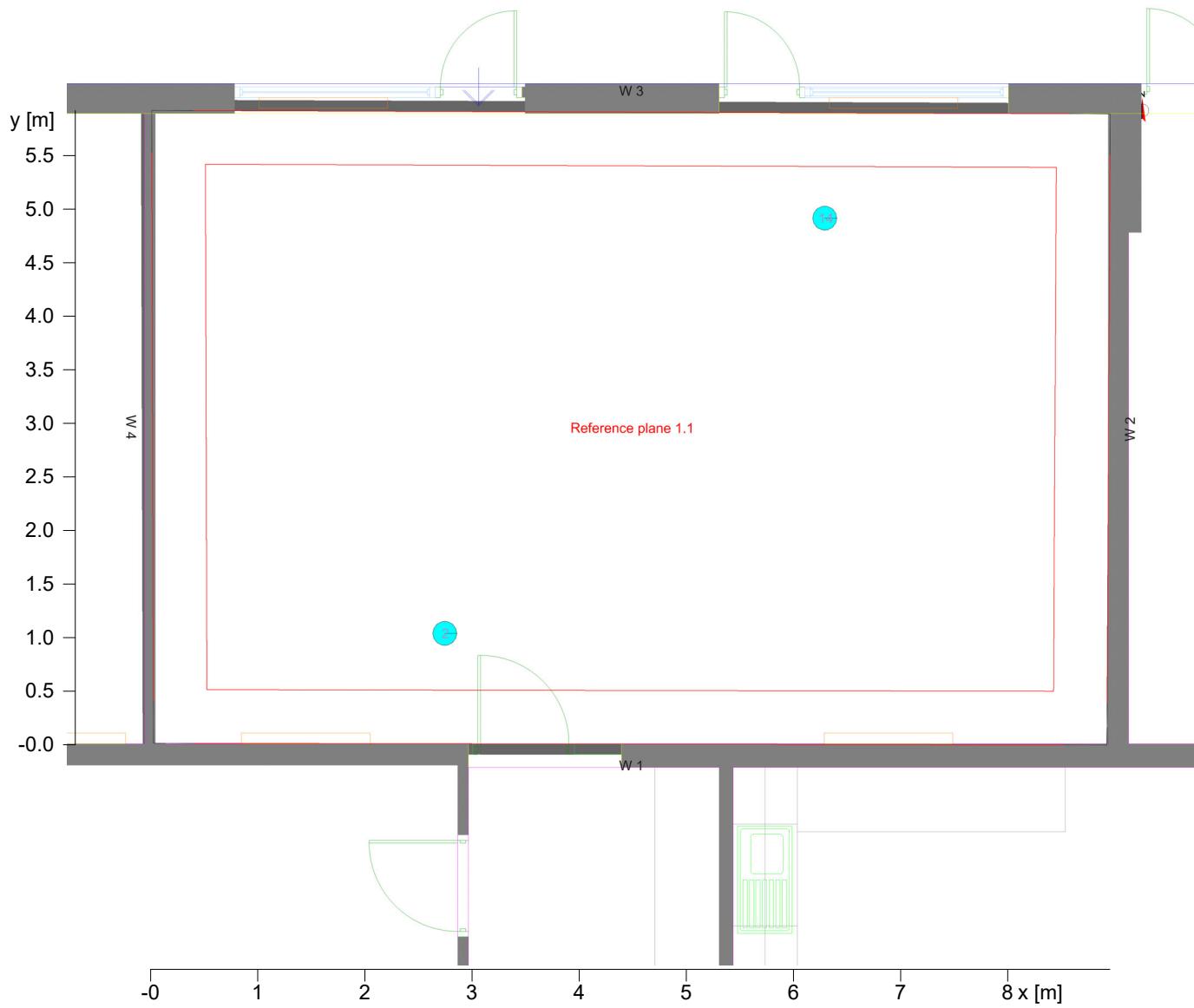
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## 8 Meeting room 3 Em

### 8.1 Description, Meeting room 3 Em

#### 8.1.1 Floor plan



Wall	x	y	Length	Reflectance
1	29.66 m	51.72 m	8.90 m	50.0 %
2	29.69 m	57.61 m	5.89 m	50.0 %
3	20.74 m	57.64 m	8.94 m	50.0 %
4	20.76 m	51.74 m	5.90 m	50.0 %
Floor				20.0 %
Ceiling				70.0 %
Room height		2.60 m		
Height of ref. plane		0.00 m		

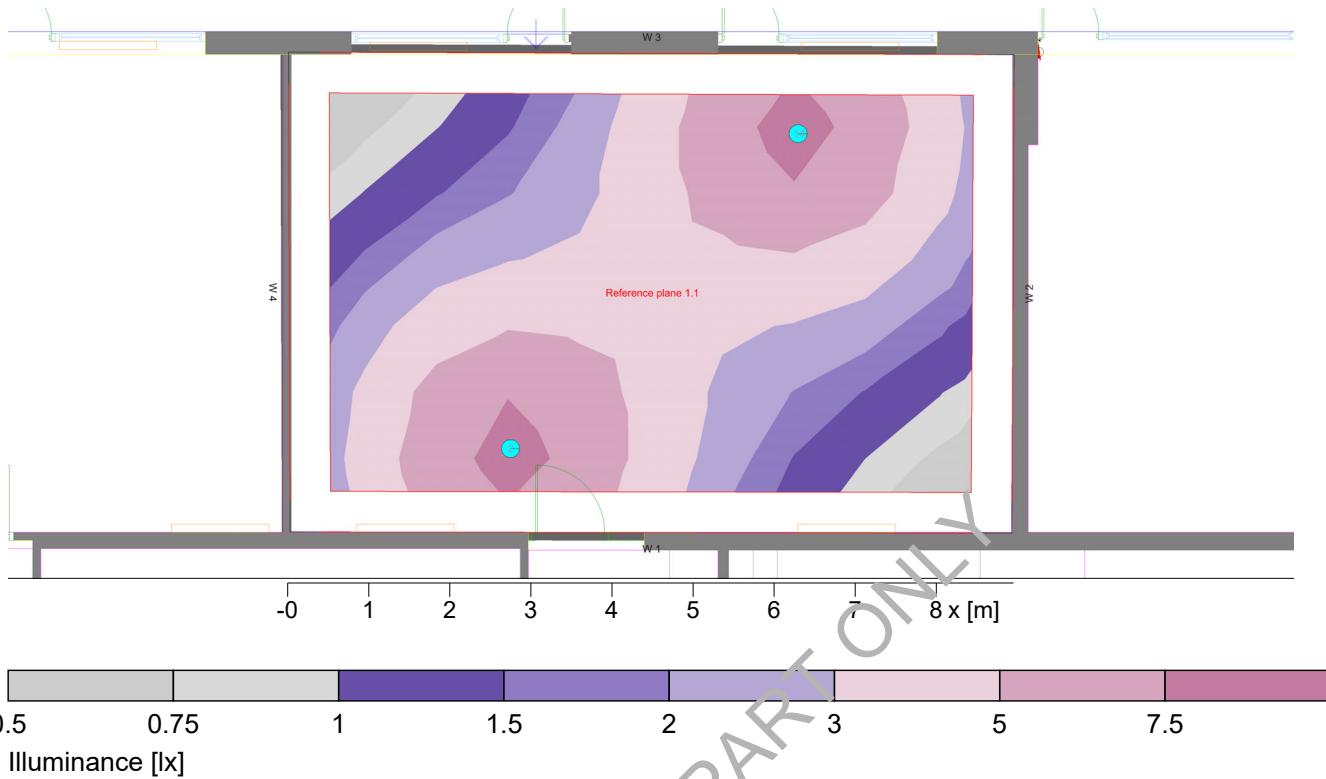
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## 8 Meeting room 3 Em

### 8.2 Summary, Meeting room 3 Em

#### 8.2.1 Result overview, Evaluation area 1



#### General

Calculation algorithm used

Direct component

Height of luminaire plane

2.60 m

Maintenance factor

0.80

Total luminous flux

370.00 lm

Total power

46.0 W

Total power per area (52.58 m<sup>2</sup>)

0.87 W/m<sup>2</sup> (24.04 W/m<sup>2</sup>/100lx)

#### Evaluation area 1

#### Reference plane 1.1

	Horizontal	cylindrical
$\bar{E}_m$	3.64 lx	1.54 lx
$E_{min}$	0.68 lx	0.15 lx
$E_{min}/\bar{E}_m (U_o)$	0.19	0.10
$E_{min}/E_{max} (U_d)$	0.08	
$E_z/E_h$		0.27
Position	0.00 m	1.60 m

#### Major surfaces

M	$\bar{E}_m$	$U_o$
M 1.5 (Ceiling)	0 lx	---
M 1.1 (Wall)	2.61 lx	0.02
M 1.2 (Wall)	0.96 lx	0.07
M 1.3 (Wall)	2.66 lx	0.02
M 1.4 (Wall)	0.92 lx	0.07

Type No.\Make

Object : Twickenham Learning Centre  
Installation : Lighting Models  
Project number :  
Date : 25.04.2024

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## 8 Meeting room 3 Em

### 8.2 Summary, Meeting room 3 Em

#### 8.2.1 Result overview, Evaluation area 1

6 2 x  **Spurlite Ltd**  
Order No. : !Boxer II 23w  
Luminaire name : Boxer II 23w EM  
Equipment : 1 x LED 23 W / 185 lm

DIRECT PART ONLY

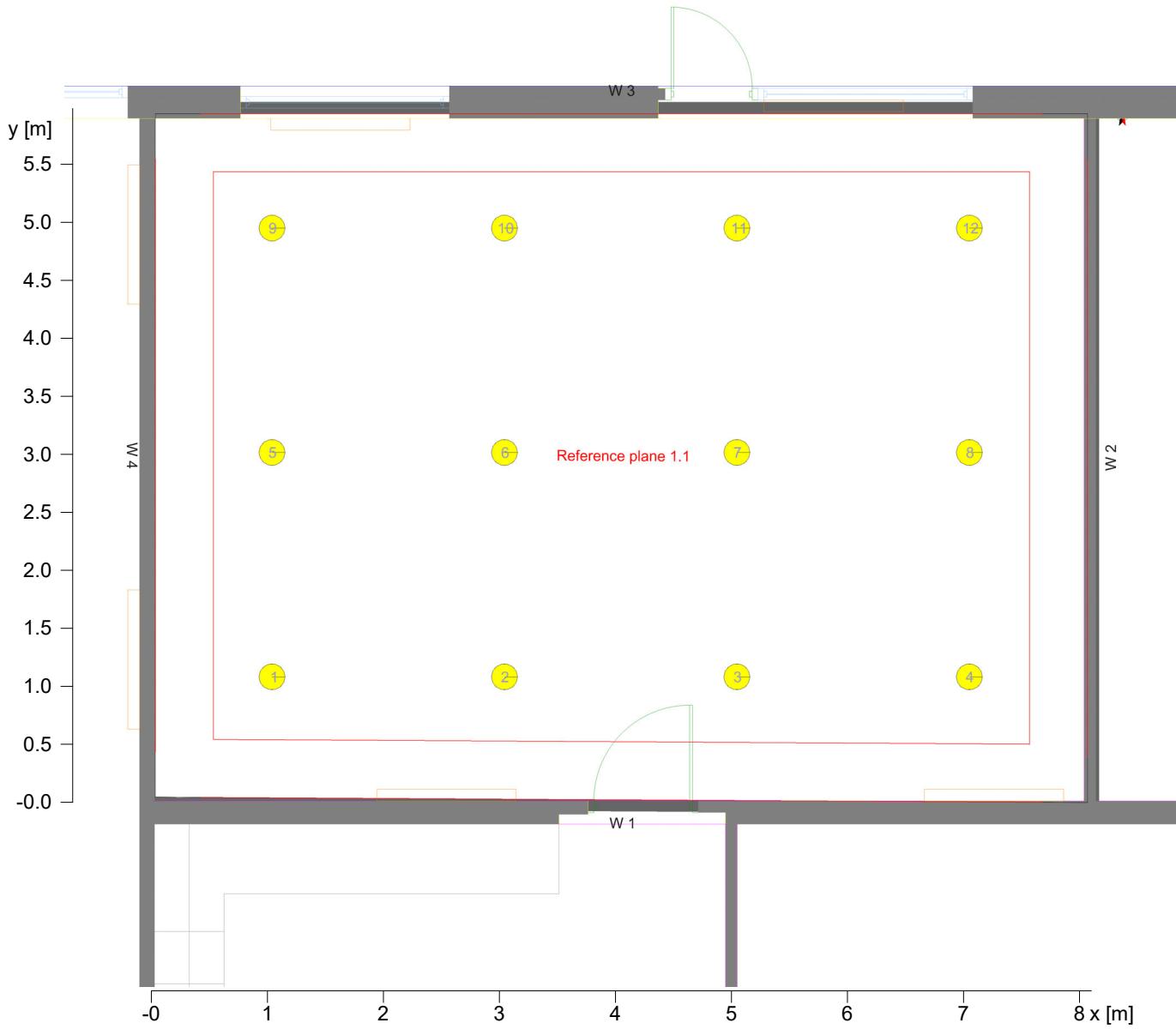
Object : Twickenham Learning Centre  
Installation : Lighting Models  
Project number :  
Date : 25.04.2024

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## 9 Meeting room 4

### 9.1 Description, Meeting room 4

#### 9.1.1 Floor plan



Wall	x	y	Length	Reflectance
1	20.71 m	51.72 m	8.03 m	50.0 %
2	20.71 m	57.65 m	5.94 m	50.0 %
3	12.68 m	57.65 m	8.03 m	50.0 %
4	12.68 m	51.76 m	5.89 m	50.0 %
Floor				20.0 %
Ceiling				70.0 %
Room height		2.60 m		
Height of ref. plane		0.75 m		

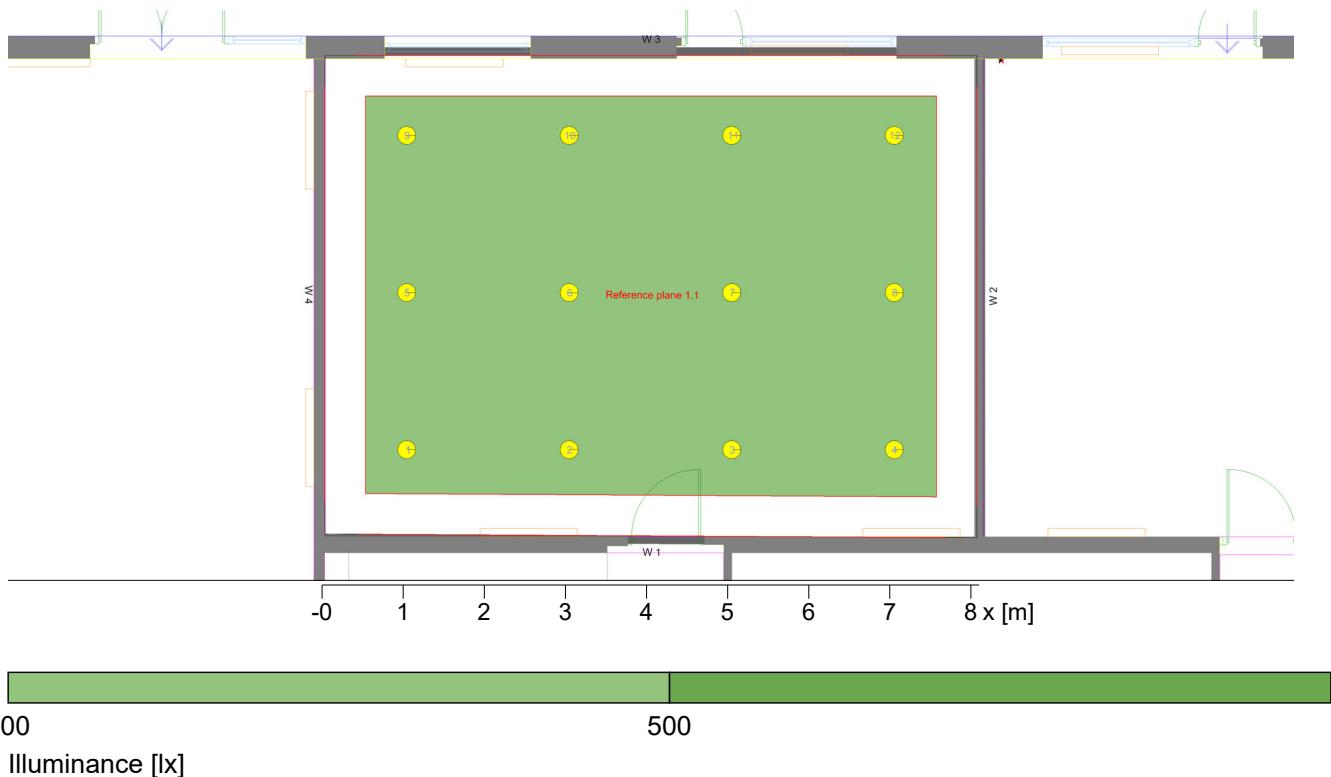
Object : Twickenham Learning Centre  
 Installation : Lighting Models  
 Project number :  
 Date : 25.04.2024

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## 9 Meeting room 4

### 9.2 Summary, Meeting room 4

#### 9.2.1 Result overview, Evaluation area 1



#### General

Calculation algorithm used	Average indirect fraction
Height of luminaire plane	2.60 m
Maintenance factor	0.80
Total luminous flux	26220.00 lm
Total power	276.0 W
Total power per area (47.48 m <sup>2</sup> )	5.81 W/m <sup>2</sup> (1.44 W/m <sup>2</sup> /100lx)

#### Evaluation area 1

#### Reference plane 1.1

$\bar{E}_m$	Horizontal	cylindrical
$E_{min}$	405 lx	181 lx
$E_{min}/\bar{E}_m (U_o)$	349 lx	134 lx
$E_{min}/E_{max} (U_d)$	0.86	0.74
$E_z/E_h$	0.76	0.41
Position	0.75 m	1.20 m

#### Major surfaces

M	$\bar{E}_m$	$U_o$
M 1.5 (Ceiling)	79 lx	0.98
M 1.1 (Wall)	218 lx	0.75
M 1.2 (Wall)	220 lx	0.75
M 1.3 (Wall)	225 lx	0.73
M 1.4 (Wall)	222 lx	0.75

Type No.\Make

Object : Twickenham Learning Centre  
Installation : Lighting Models  
Project number :  
Date : 25.04.2024



## 9 Meeting room 4

### 9.2 Summary, Meeting room 4

#### 9.2.1 Result overview, Evaluation area 1

1 12 x  **Spurlite Ltd**  
Order No. : Boxer II 23w  
Luminaire name : Boxer II 23w  
Equipment : 1 x LED 23 W / 2185 lm

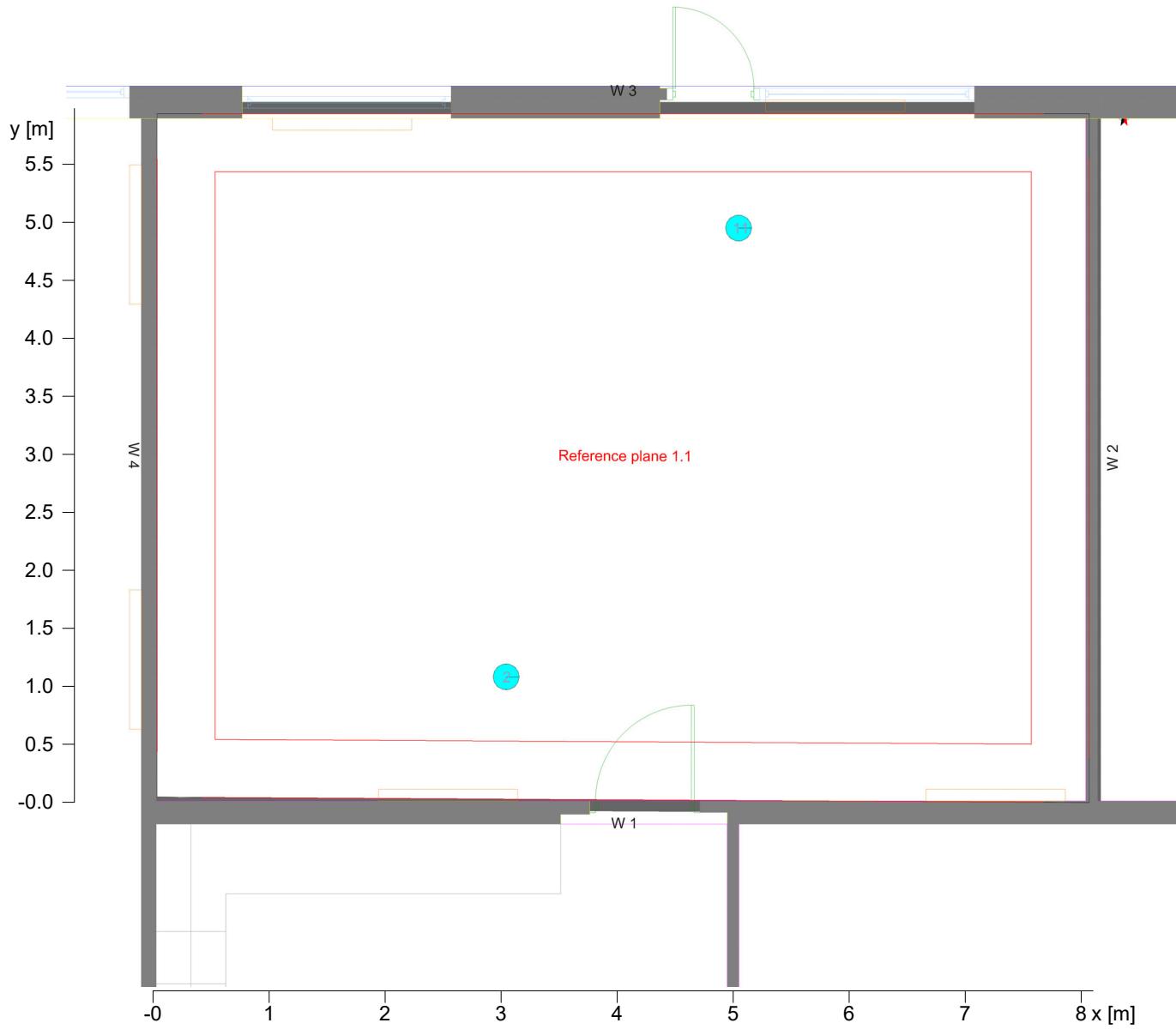
Object : Twickenham Learning Centre  
Installation : Lighting Models  
Project number :  
Date : 25.04.2024

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## 10 Meeting room 4 EM

### 10.1 Description, Meeting room 4 EM

#### 10.1.1 Floor plan



Wall	x	y	Length	Reflectance
1	20.71 m	51.72 m	8.03 m	50.0 %
2	20.71 m	57.65 m	5.94 m	50.0 %
3	12.68 m	57.65 m	8.03 m	50.0 %
4	12.68 m	51.76 m	5.89 m	50.0 %
Floor				20.0 %
Ceiling				70.0 %
Room height		2.60 m		
Height of ref. plane		0.00 m		

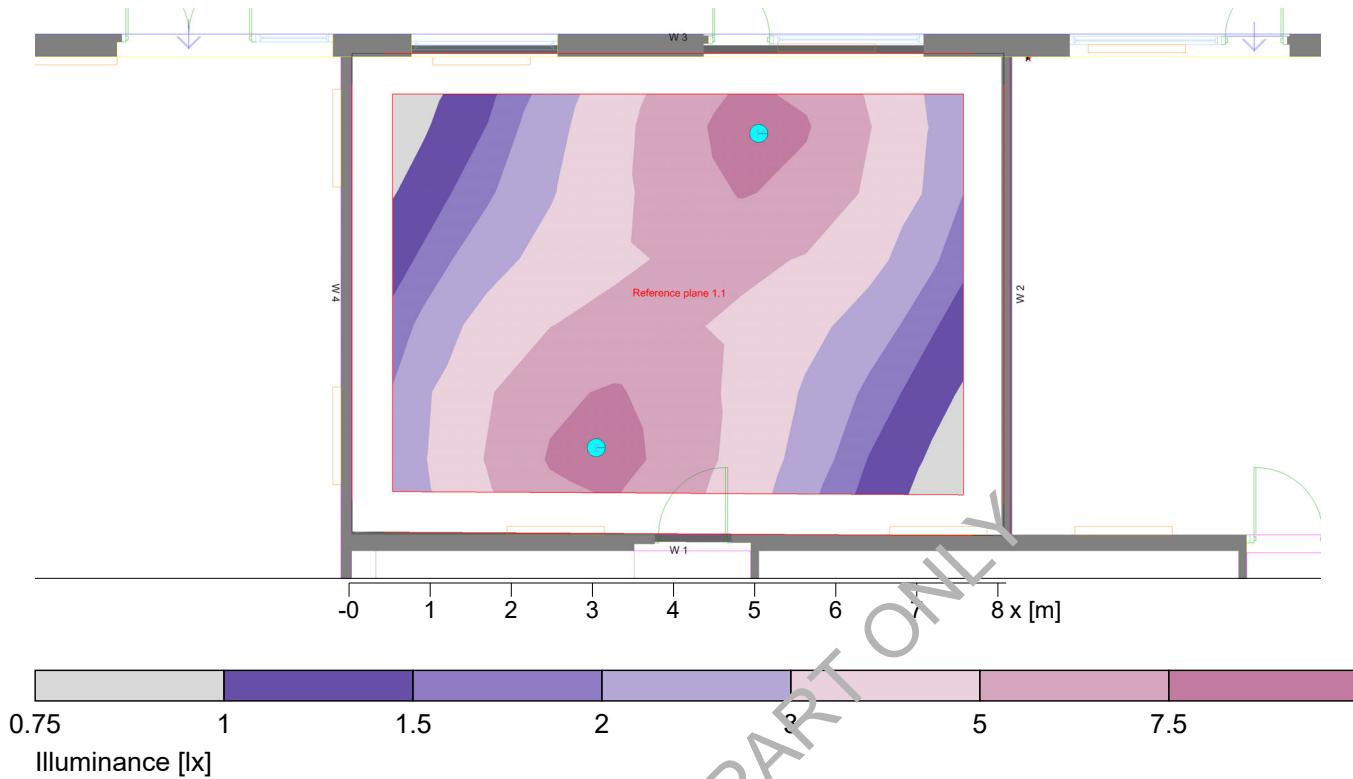
Object : Twickenham Learning Centre  
 Installation : Lighting Models  
 Project number :  
 Date : 25.04.2024

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## 10 Meeting room 4 EM

### 10.2 Summary, Meeting room 4 EM

#### 10.2.1 Result overview, Evaluation area 1



#### General

Calculation algorithm used

Direct component

Height of luminaire plane

2.60 m

Maintenance factor

0.80

Total luminous flux

370.00 lm

Total power

46.0 W

Total power per area (47.48 m<sup>2</sup>)

0.97 W/m<sup>2</sup> (23.37 W/m<sup>2</sup>/100lx)

#### Evaluation area 1

#### Reference plane 1.1

$\bar{E}_m$	Horizontal	cylindrical
$E_{min}$	4.15 lx	1.85 lx
$E_{min}/\bar{E}_m (U_o)$	0.92 lx	0.2 lx
$E_{min}/E_{max} (U_d)$	0.22	0.11
$E_z/E_h$	0.11	0.29
Position	0.00 m	1.60 m

#### Major surfaces

M	$\bar{E}_m$	$U_o$
M 1.5 (Ceiling)	0 lx	---
M 1.1 (Wall)	2.89 lx	0.02
M 1.2 (Wall)	0.85 lx	0.12
M 1.3 (Wall)	3.01 lx	0.02
M 1.4 (Wall)	0.87 lx	0.12

Type No.\Make

Object : Twickenham Learning Centre  
Installation : Lighting Models  
Project number :  
Date : 25.04.2024

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## 10 Meeting room 4 EM

### 10.2 Summary, Meeting room 4 EM

#### 10.2.1 Result overview, Evaluation area 1

6 2 x  **Spurlite Ltd**  
Order No. : !Boxer II 23w  
Luminaire name : Boxer II 23w EM  
Equipment : 1 x LED 23 W / 185 lm

DIRECT PART ONLY

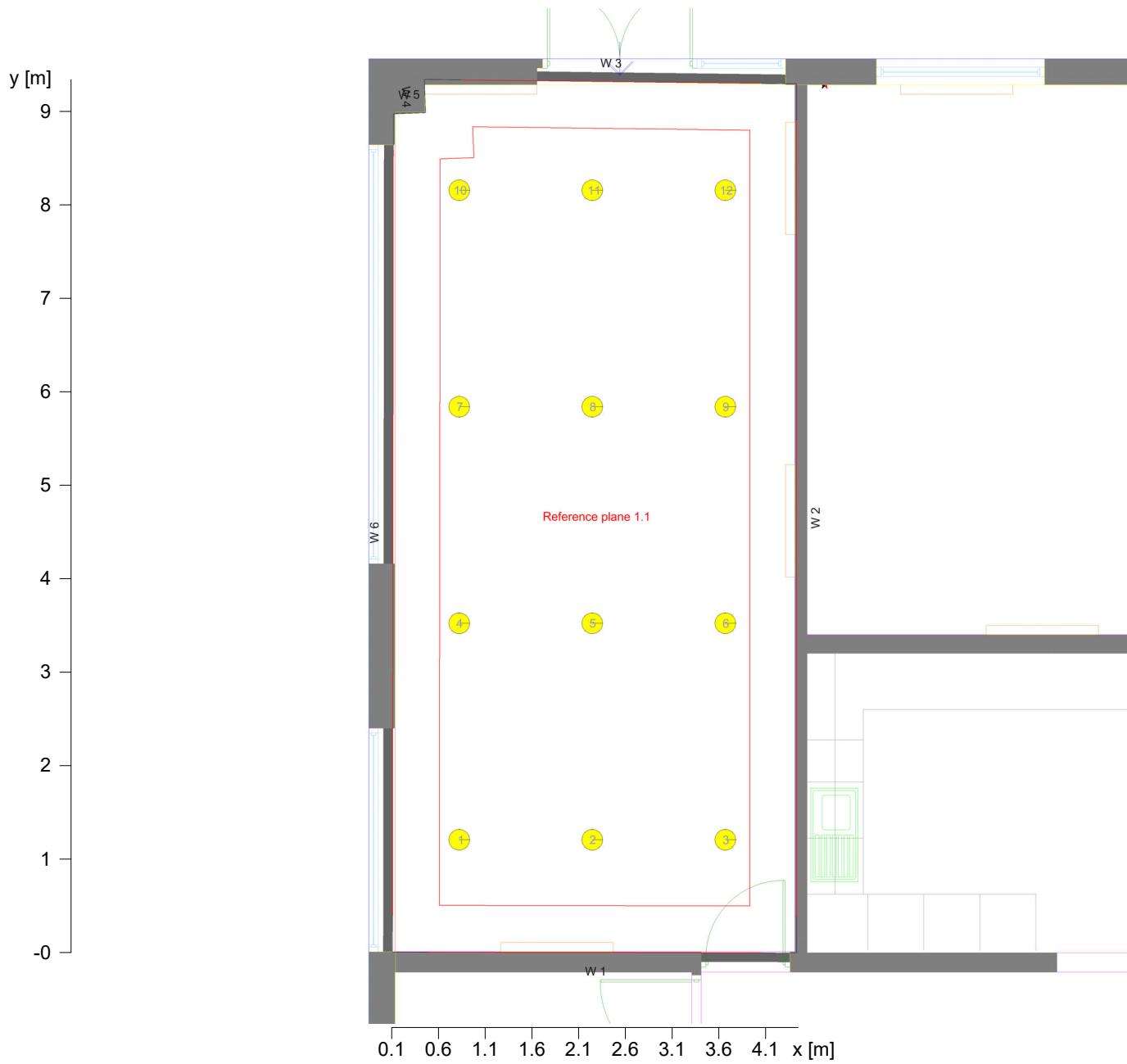
Object : Twickenham Learning Centre  
 Installation : Lighting Models  
 Project number :  
 Date : 25.04.2024

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## 11 Meeting room 5

### 11.1 Description, Meeting room 5

#### 11.1.1 Floor plan



Wall	x	y	Length	Reflectance
1	12.56 m	48.33 m	4.32 m	50.0 %
2	12.56 m	57.62 m	9.29 m	50.0 %
3	8.57 m	57.67 m	3.98 m	50.0 %
4	8.59 m	57.31 m	0.36 m	50.0 %
5	8.24 m	57.30 m	0.34 m	50.0 %
6	8.23 m	48.34 m	8.96 m	50.0 %
Floor				20.0 %
Ceiling				70.0 %
Room height	2.60 m			
Height of ref. plane	0.75 m			

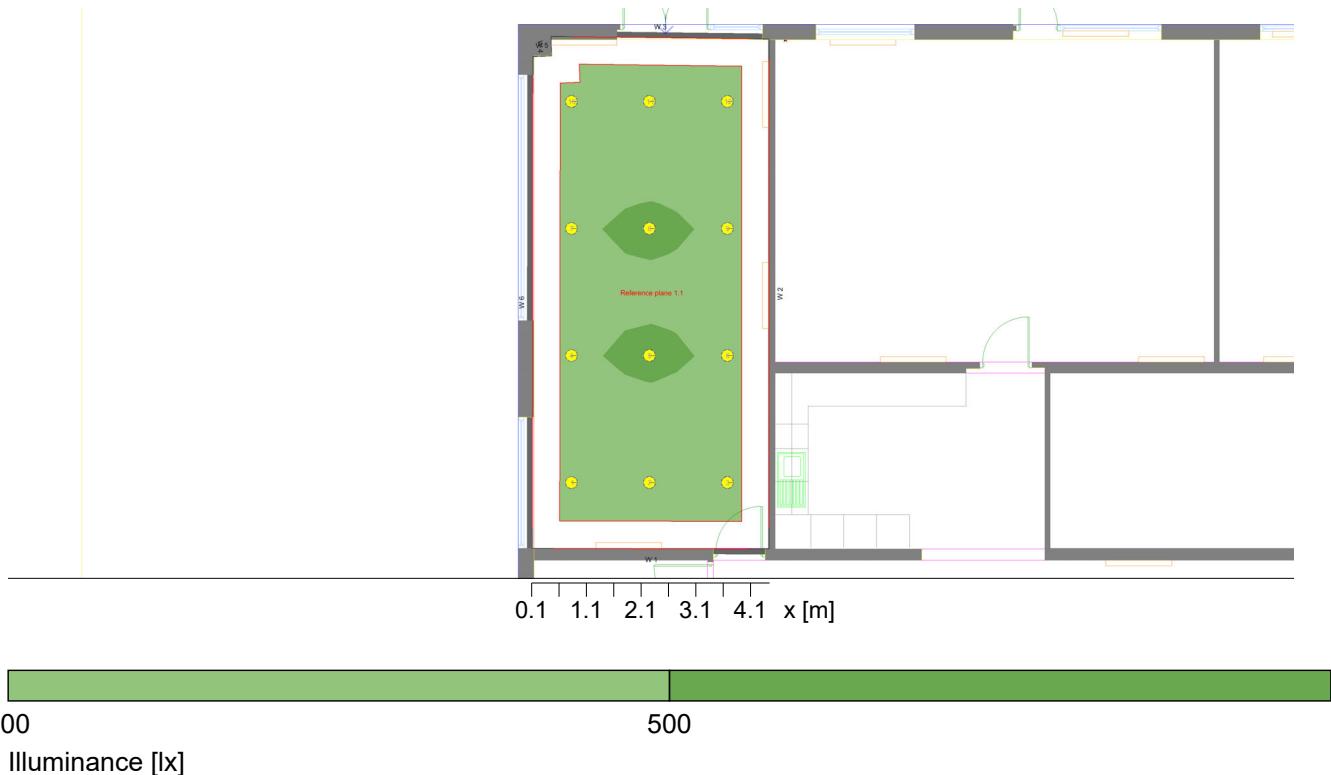
Object : Twickenham Learning Centre  
 Installation : Lighting Models  
 Project number :  
 Date : 25.04.2024

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## 11 Meeting room 5

### 11.2 Summary, Meeting room 5

#### 11.2.1 Result overview, Evaluation area 1



#### General

Calculation algorithm used	Average indirect fraction
Height of luminaire plane	2.60 m
Maintenance factor	0.80
Total luminous flux	26220.00 lm
Total power	276.0 W
Total power per area (40.10 m <sup>2</sup> )	6.88 W/m <sup>2</sup> (1.53 W/m <sup>2</sup> /100lx)

#### Evaluation area 1

#### Reference plane 1.1

$\bar{E}_m$	Horizontal	cylindrical
$E_{min}$	451 lx	201 lx
$E_{min}/\bar{E}_m (U_o)$	361 lx	146 lx
$E_{min}/E_{max} (U_d)$	0.80	0.73
$E_z/E_h$	0.69	0.40
Position	0.75 m	1.20 m

#### Major surfaces

M	$\bar{E}_m$	$U_o$
M 1.5 (Ceiling)	91 lx	0.97
M 1.1 (Wall)	238 lx	0.83
M 1.2 (Wall)	257 lx	0.69
M 1.3 (Wall)	245 lx	0.81
M 1.4 (Wall)	264 lx	0.67

Type No.\Make

Object : Twickenham Learning Centre  
Installation : Lighting Models  
Project number :  
Date : 25.04.2024



## 11 Meeting room 5

### 11.2 Summary, Meeting room 5

#### 11.2.1 Result overview, Evaluation area 1

1 12 x  **Spurlite Ltd**  
Order No. : Boxer II 23w  
Luminaire name : Boxer II 23w  
Equipment : 1 x LED 23 W / 2185 lm

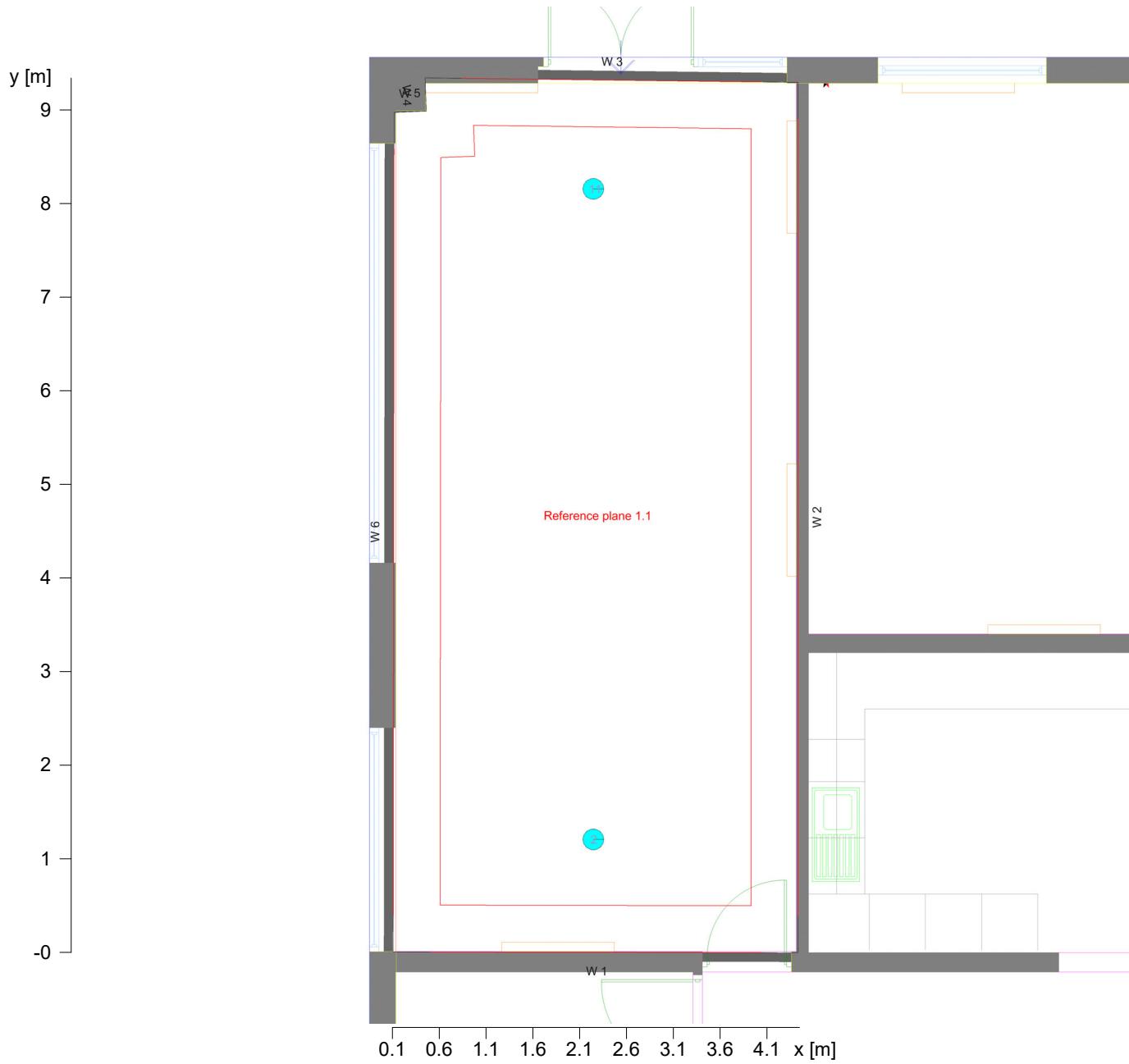
Object : Twickenham Learning Centre  
Installation : Lighting Models  
Project number :  
Date : 25.04.2024

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## 12 Meeting room 5 Em

### 12.1 Description, Meeting room 5 Em

#### 12.1.1 Floor plan



Wall	$x$	$y$	Length	Reflectance
1	12.56 m	48.33 m	4.32 m	50.0 %
2	12.56 m	57.62 m	9.29 m	50.0 %
3	8.57 m	57.67 m	3.98 m	50.0 %
4	8.59 m	57.31 m	0.36 m	50.0 %
5	8.24 m	57.30 m	0.34 m	50.0 %
6	8.23 m	48.34 m	8.96 m	50.0 %
Floor				20.0 %
Ceiling				70.0 %
Room height			2.60 m	
Height of ref. plane			0.00 m	

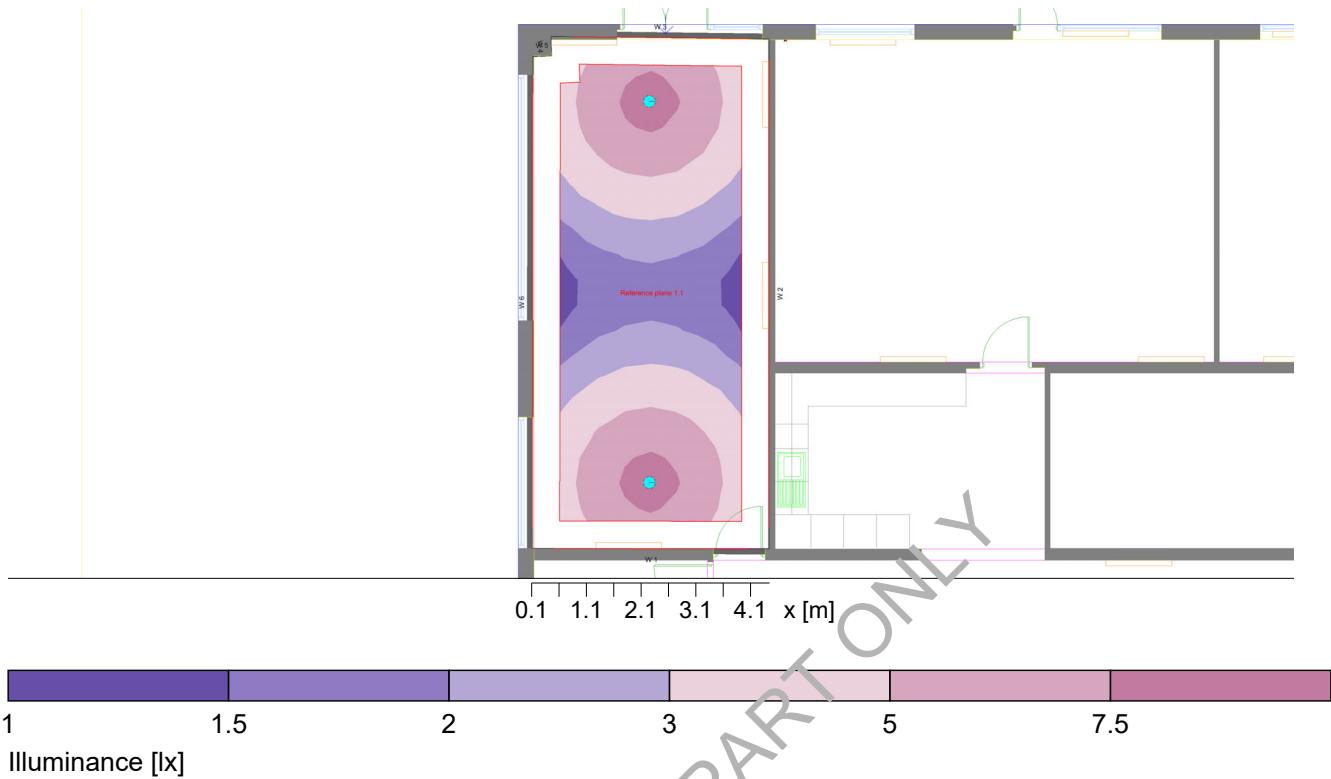
Object : Twickenham Learning Centre  
 Installation : Lighting Models  
 Project number :  
 Date : 25.04.2024

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## 12 Meeting room 5 Em

### 12.2 Summary, Meeting room 5 Em

#### 12.2.1 Result overview, Evaluation area 1



#### General

Calculation algorithm used

Direct component

Height of luminaire plane

2.60 m

Maintenance factor

0.80

Total luminous flux

370.00 lm

Total power

46.0 W

Total power per area (40.10 m<sup>2</sup>)

1.15 W/m<sup>2</sup> (27.75 W/m<sup>2</sup>/100lx)

#### Evaluation area 1

#### Reference plane 1.1

	Horizontal	cylindrical
$\bar{E}_m$	4.13 lx	2.06 lx
$E_{min}$	1.44 lx	0.33 lx
$E_{min}/\bar{E}_m (U_o)$	0.35	0.16
$E_{min}/E_{max} (U_d)$	0.17	
$E_z/E_h$		0.26
Position	0.00 m	1.60 m

#### Major surfaces

	$\bar{E}_m$	$U_o$
M 1.5 (Ceiling)	0 lx	---
M 1.1 (Wall)	4.5 lx	0.32
M 1.2 (Wall)	1.57 lx	0.10
M 1.3 (Wall)	4.93 lx	0.30
M 1.4 (Wall)	1.6 lx	0.10

Type No.\Make

Object : Twickenham Learning Centre  
Installation : Lighting Models  
Project number :  
Date : 25.04.2024

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## 12 Meeting room 5 Em

### 12.2 Summary, Meeting room 5 Em

#### 12.2.1 Result overview, Evaluation area 1

6 2 x  **Spurlite Ltd**  
Order No. : !Boxer II 23w  
Luminaire name : Boxer II 23w EM  
Equipment : 1 x LED 23 W / 185 lm

DIRECT PART ONLY

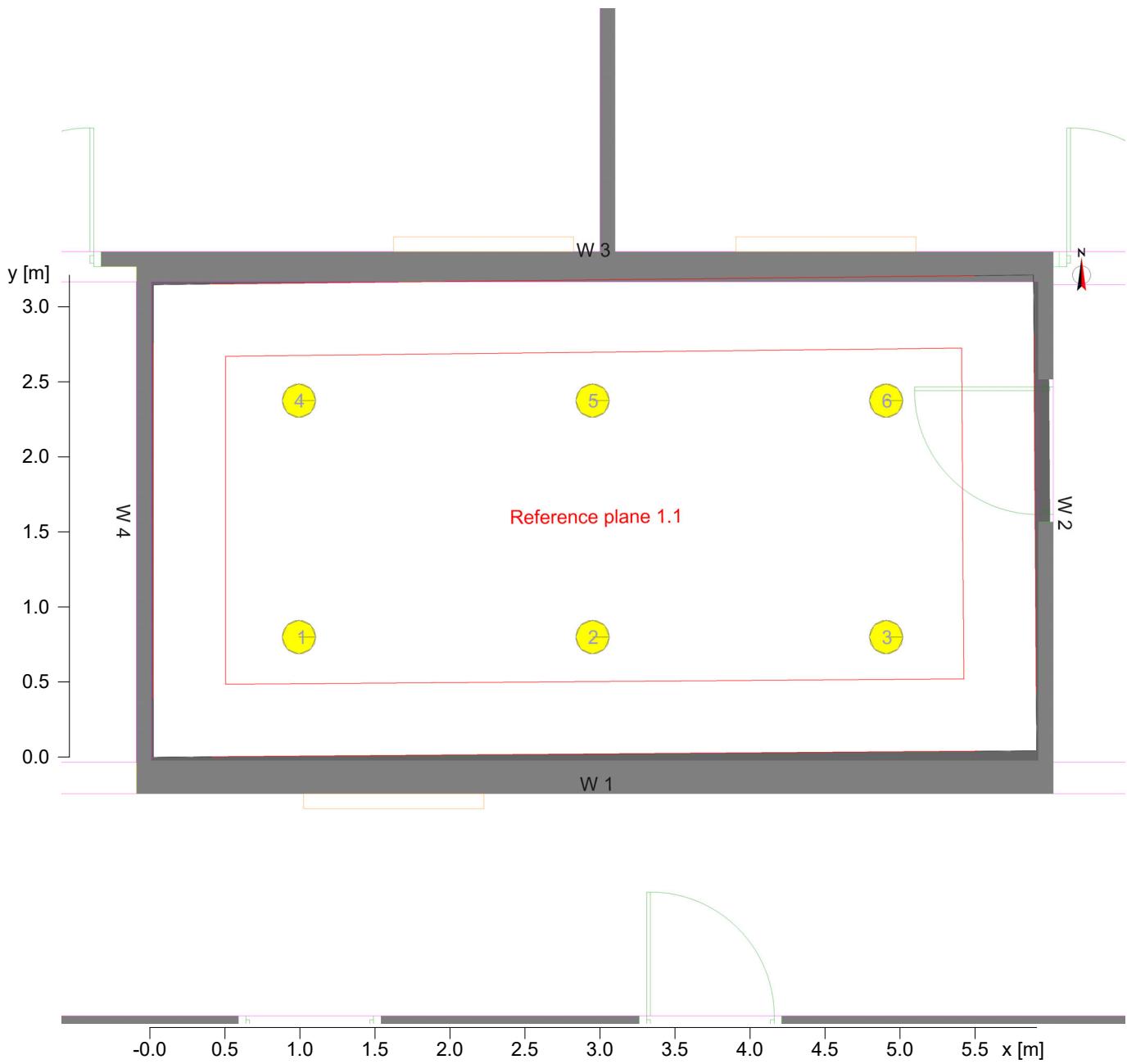
Object : Twickenham Learning Centre  
Installation : Lighting Models  
Project number :  
Date : 25.04.2024

**RE**LUX®

## 13 Meeting Room 6

### 13.1 Description, Meeting Room 6

#### 13.1.1 Floor plan



Wall	x	y	Length	Reflectance
1	23.59 m	48.41 m	5.89 m	50.0 %
2	23.57 m	51.57 m	3.17 m	50.0 %
3	17.70 m	51.51 m	5.86 m	50.0 %
4	17.70 m	48.36 m	3.15 m	50.0 %
Floor				20.0 %
Ceiling				70.0 %
Room height			2.60 m	
Height of ref. plane			0.75 m	

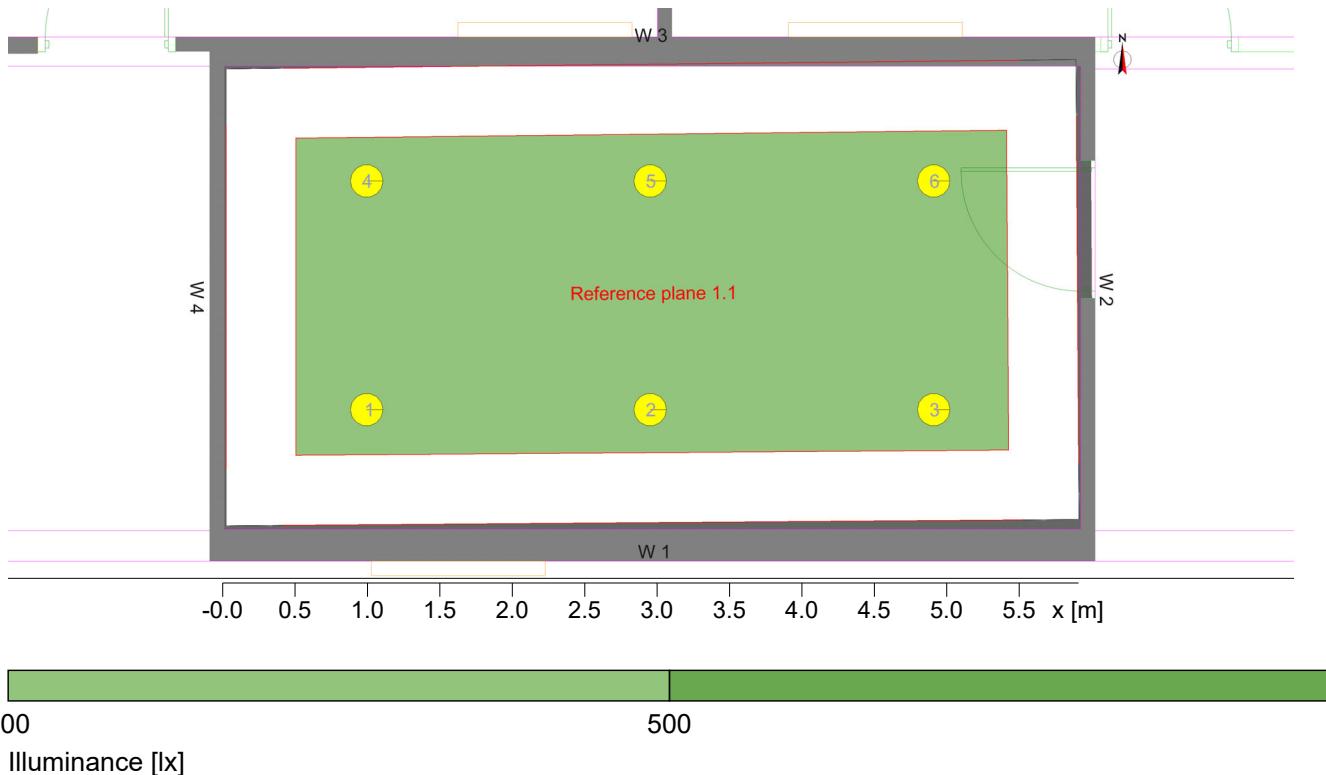
Object : Twickenham Learning Centre  
 Installation : Lighting Models  
 Project number :  
 Date : 25.04.2024

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## 13 Meeting Room 6

### 13.2 Summary, Meeting Room 6

#### 13.2.1 Result overview, Evaluation area 1



#### General

Calculation algorithm used	Average indirect fraction
Height of luminaire plane	2.60 m
Maintenance factor	0.80
Total luminous flux	13110.00 lm
Total power	138.0 W
Total power per area (18.55 m <sup>2</sup> )	7.44 W/m <sup>2</sup> (1.76 W/m <sup>2</sup> /100lx)

#### Evaluation area 1

#### Reference plane 1.1

	Horizontal	cylindrical
$\bar{E}_m$	422 lx	183 lx
$E_{min}$	357 lx	145 lx
$E_{min}/\bar{E}_m (U_o)$	0.84	0.79
$E_{min}/E_{max} (U_d)$	0.76	
$E_z/E_h$		0.37
Position	0.75 m	1.20 m

#### Major surfaces

M	$\bar{E}_m$	$U_o$
M 1.5 (Ceiling)	91 lx	0.97
M 1.1 (Wall)	254 lx	0.66
M 1.2 (Wall)	241 lx	0.76
M 1.3 (Wall)	252 lx	0.66
M 1.4 (Wall)	245 lx	0.75

Type No.\Make

Object : Twickenham Learning Centre  
Installation : Lighting Models  
Project number :  
Date : 25.04.2024



## 13 Meeting Room 6

### 13.2 Summary, Meeting Room 6

#### 13.2.1 Result overview, Evaluation area 1

1 6 x  **Spurlite Ltd**  
Order No. : Boxer II 23w  
Luminaire name : Boxer II 23w  
Equipment : 1 x LED 23 W / 2185 lm

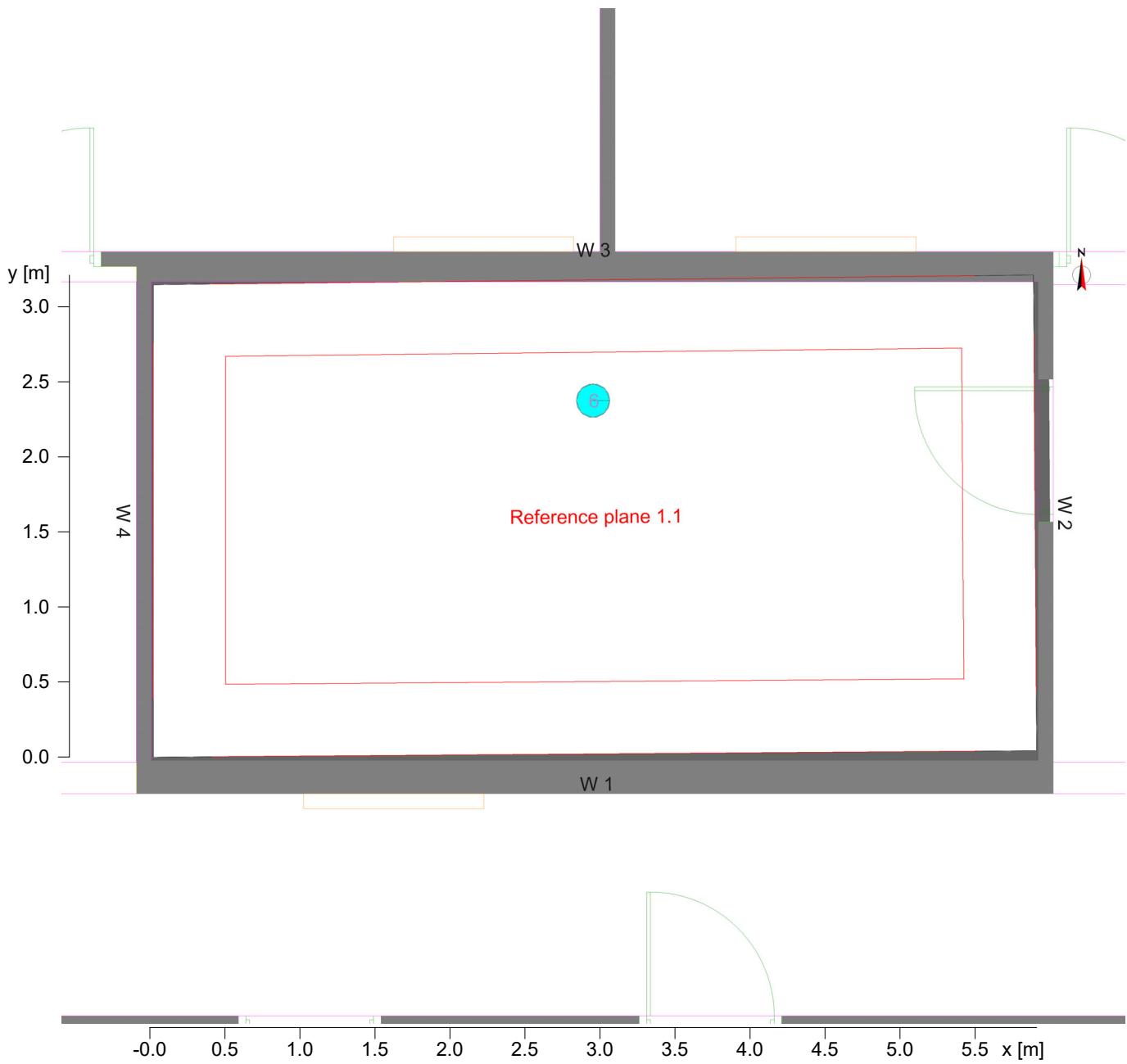
Object : Twickenham Learning Centre  
Installation : Lighting Models  
Project number :  
Date : 25.04.2024

**RE**LUX®

## 14 Meeting Room 6 Em

### 14.1 Description, Meeting Room 6 Em

#### 14.1.1 Floor plan



Wall	x	y	Length	Reflectance
1	23.59 m	48.41 m	5.89 m	50.0 %
2	23.57 m	51.57 m	3.17 m	50.0 %
3	17.70 m	51.51 m	5.86 m	50.0 %
4	17.70 m	48.36 m	3.15 m	50.0 %
Floor				20.0 %
Ceiling				70.0 %
Room height		2.60 m		
Height of ref. plane		0.00 m		

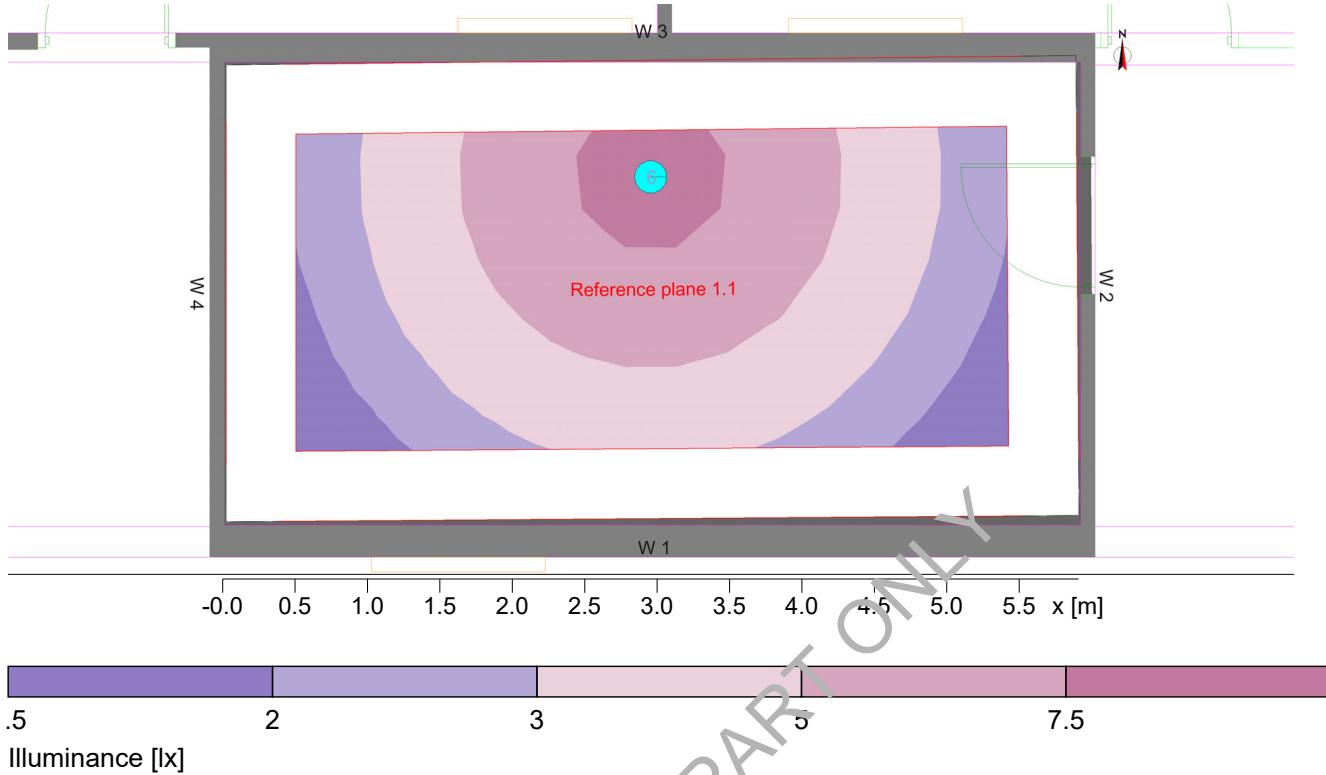
Object : Twickenham Learning Centre  
 Installation : Lighting Models  
 Project number :  
 Date : 25.04.2024

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## 14 Meeting Room 6 Em

### 14.2 Summary, Meeting Room 6 Em

#### 14.2.1 Result overview, Evaluation area 1



#### General

Calculation algorithm used	Direct component
Height of luminaire plane	2.60 m
Maintenance factor	0.80
Total luminous flux	185.00 lm
Total power	23.0 W
Total power per area (18.55 m <sup>2</sup> )	1.24 W/m <sup>2</sup> (28.91 W/m <sup>2</sup> /100lx)

#### Evaluation area 1

#### Reference plane 1.1

	Horizontal	cylindrical
$\bar{E}_m$	4.29 lx	2.22 lx
$E_{min}$	1.5 lx	0.4 lx
$E_{min}/\bar{E}_m (U_o)$	0.35	0.18
$E_{min}/E_{max} (U_d)$	0.19	
$E_z/E_h$		0.26
Position	0.00 m	1.60 m

#### Major surfaces

M	$\bar{E}_m$	$U_o$
M 1.5 (Ceiling)	0 lx	---
M 1.1 (Wall)	1.41 lx	0.15
M 1.2 (Wall)	1.07 lx	0.25
M 1.3 (Wall)	4.3 lx	0.06
M 1.4 (Wall)	1.07 lx	0.25

Type No.\Make

Object : Twickenham Learning Centre  
Installation : Lighting Models  
Project number :  
Date : 25.04.2024

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## 14 Meeting Room 6 Em

### 14.2 Summary, Meeting Room 6 Em

#### 14.2.1 Result overview, Evaluation area 1

6 1 x  **Spurlite Ltd**  
Order No. : !Boxer II 23w  
Luminaire name : Boxer II 23w EM  
Equipment : 1 x LED 23 W / 185 lm

DIRECT PART ONLY

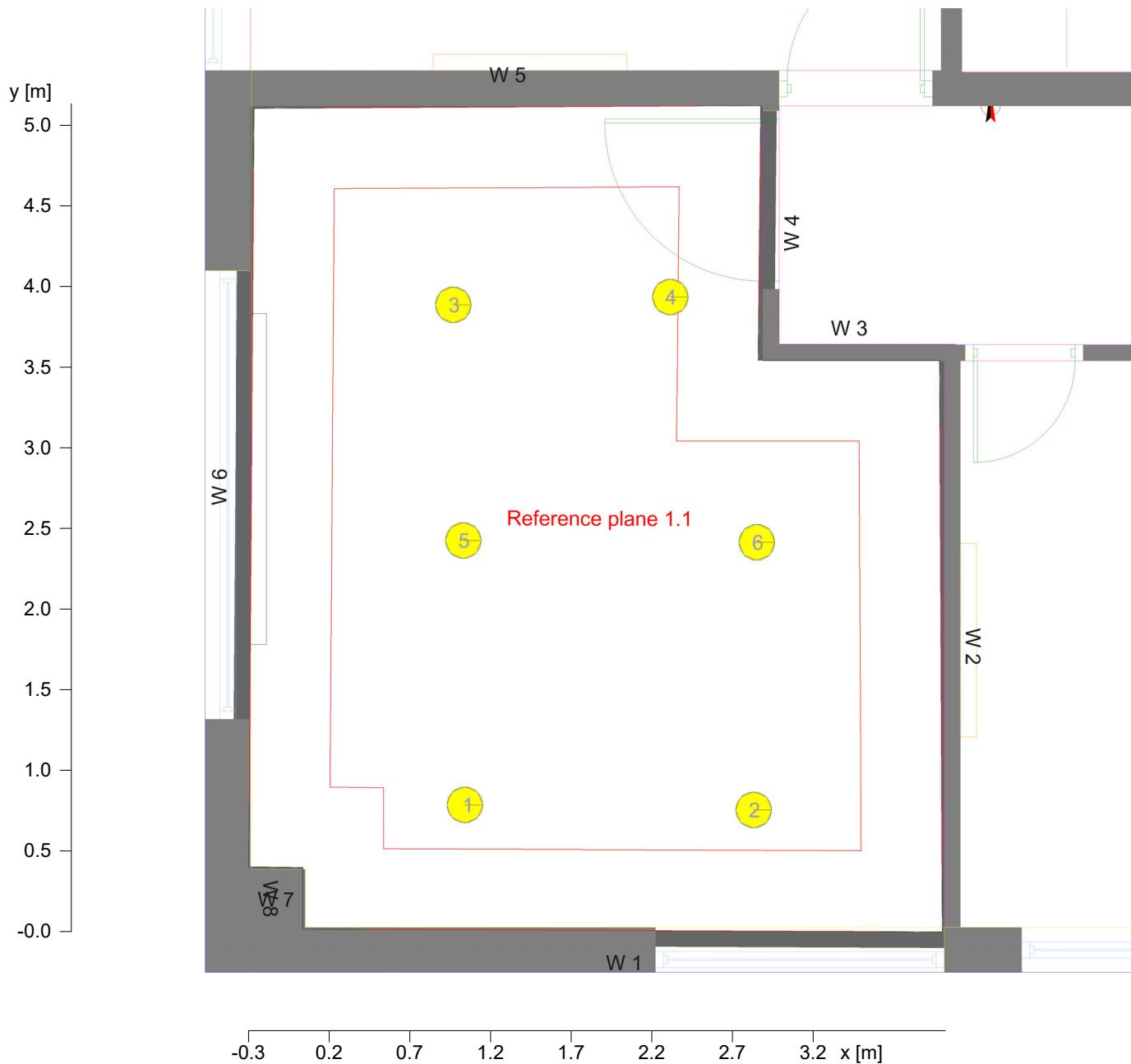
Object : Twickenham Learning Centre  
Installation : Lighting Models  
Project number :  
Date : 25.04.2024

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## 15 Meeting Room 7

### 15.1 Description, Meeting Room 7

#### 15.1.1 Floor plan



Wall	x	y	Length	Reflectance
1	12.55 m	43.00 m	3.96 m	50.0 %
2	12.53 m	46.54 m	3.54 m	50.0 %
3	11.40 m	46.54 m	1.12 m	50.0 %
4	11.42 m	48.12 m	1.58 m	50.0 %
5	8.28 m	48.10 m	3.14 m	50.0 %
6	8.25 m	43.40 m	4.70 m	50.0 %
7	8.58 m	43.40 m	0.34 m	50.0 %
8	8.58 m	43.02 m	0.38 m	50.0 %
Floor				20.0 %
Ceiling				70.0 %
Room height			2.60 m	
Height of ref. plane			0.75 m	

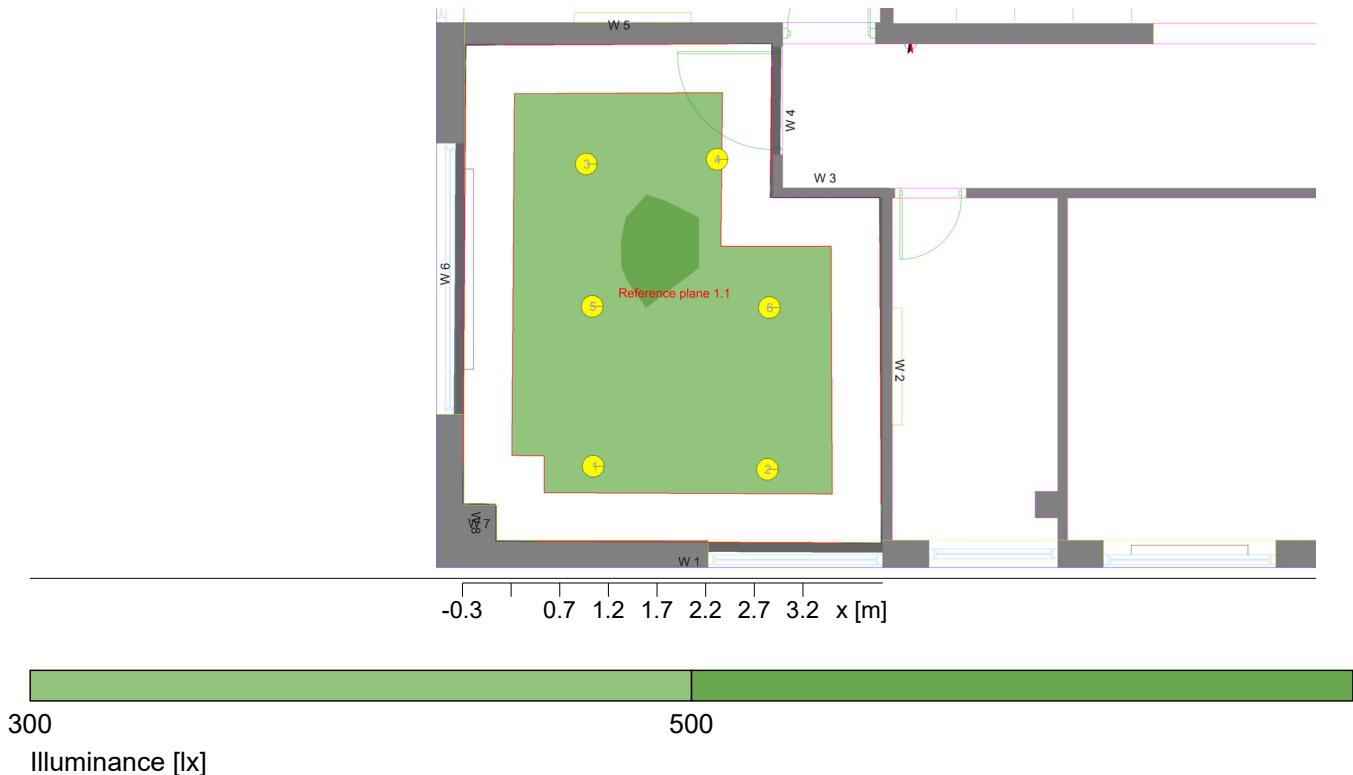
Object : Twickenham Learning Centre  
 Installation : Lighting Models  
 Project number :  
 Date : 25.04.2024

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## 15 Meeting Room 7

### 15.2 Summary, Meeting Room 7

#### 15.2.1 Result overview, Evaluation area 1



#### General

Calculation algorithm used	Average indirect fraction
Height of luminaire plane	2.60 m
Maintenance factor	0.80
Total luminous flux	13110.00 lm
Total power	138.0 W
Total power per area (19.91 m <sup>2</sup> )	6.93 W/m <sup>2</sup> (1.59 W/m <sup>2</sup> /100lx)

#### Evaluation area 1

#### Reference plane 1.1

	Horizontal	cylindrical
$\bar{E}_m$	437 lx	182 lx
$E_{min}$	319 lx	138 lx
$E_{min}/\bar{E}_m (U_o)$	0.73	0.76
$E_{min}/E_{max} (U_d)$	0.62	
$E_z/E_h$		0.36
Position	0.75 m	1.20 m

#### Major surfaces

	$\bar{E}_m$	$U_o$
M 1.6 (Ceiling)	83 lx	0.92
M 1.1 (Wall)	254 lx	0.68
M 1.2 (Wall)	221 lx	0.79
M 1.3 (Wall)	261 lx	0.55
M 1.4 (Wall)	224 lx	0.69
M 1.5 (Wall)	215 lx	0.68

Object : Twickenham Learning Centre  
Installation : Lighting Models  
Project number :  
Date : 25.04.2024

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## 15 Meeting Room 7

### 15.2 Summary, Meeting Room 7

#### 15.2.1 Result overview, Evaluation area 1

Type No.\Make

1 6 x  **Spurlite Ltd**  
Order No. : Boxer II 23w  
Luminaire name : Boxer II 23w  
Equipment : 1 x LED 23 W / 2185 lm

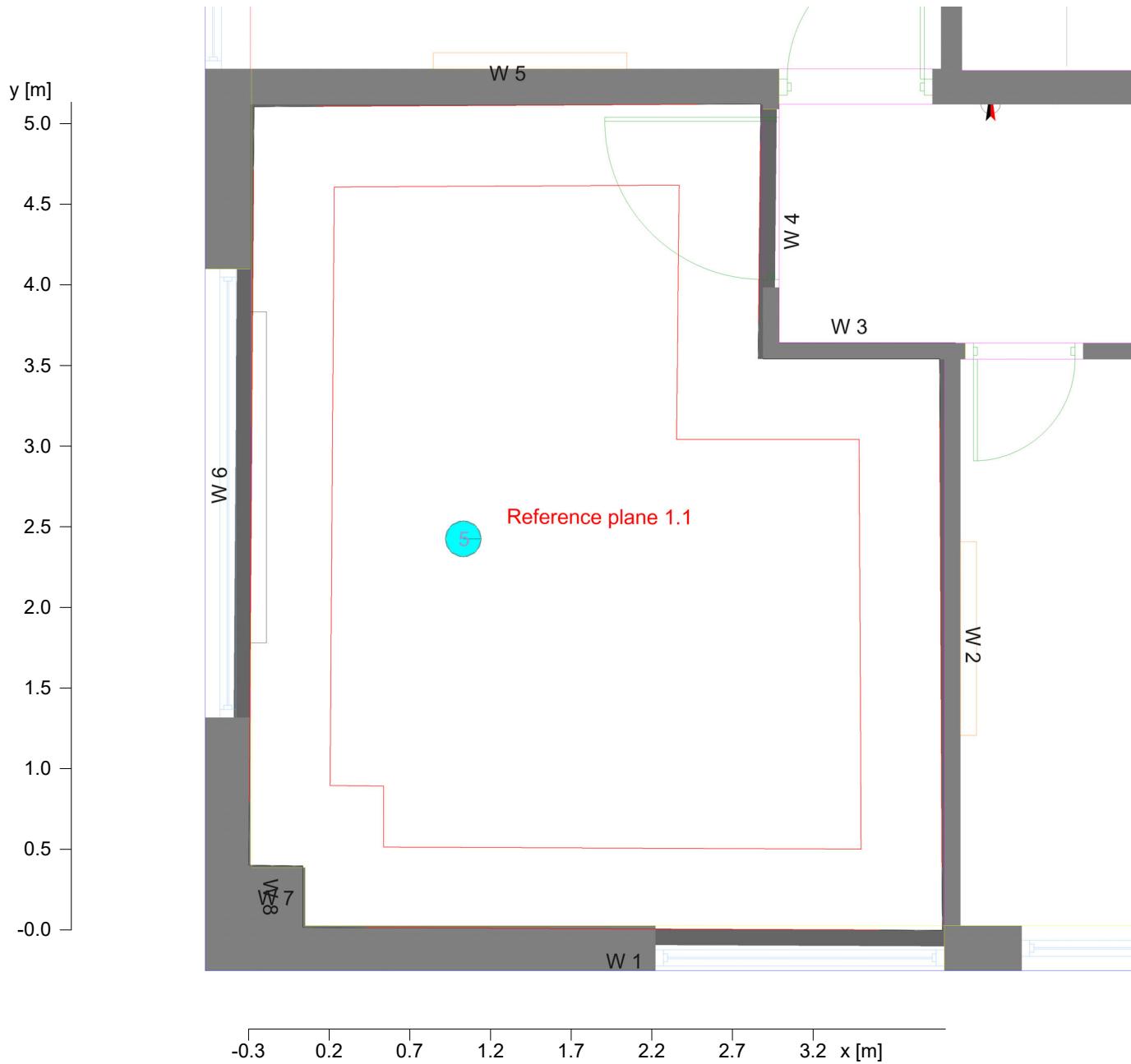
Object : Twickenham Learning Centre  
Installation : Lighting Models  
Project number :  
Date : 25.04.2024

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## 16 Meeting Room 7 Em

### 16.1 Description, Meeting Room 7 Em

#### 16.1.1 Floor plan



Wall	x	y	Length	Reflectance
1	12.55 m	43.00 m	3.96 m	50.0 %
2	12.53 m	46.54 m	3.54 m	50.0 %
3	11.40 m	46.54 m	1.12 m	50.0 %
4	11.42 m	48.12 m	1.58 m	50.0 %
5	8.28 m	48.10 m	3.14 m	50.0 %
6	8.25 m	43.40 m	4.70 m	50.0 %
7	8.58 m	43.40 m	0.34 m	50.0 %
8	8.58 m	43.02 m	0.38 m	50.0 %
Floor				20.0 %
Ceiling				70.0 %
Room height			2.60 m	
Height of ref. plane			0.00 m	

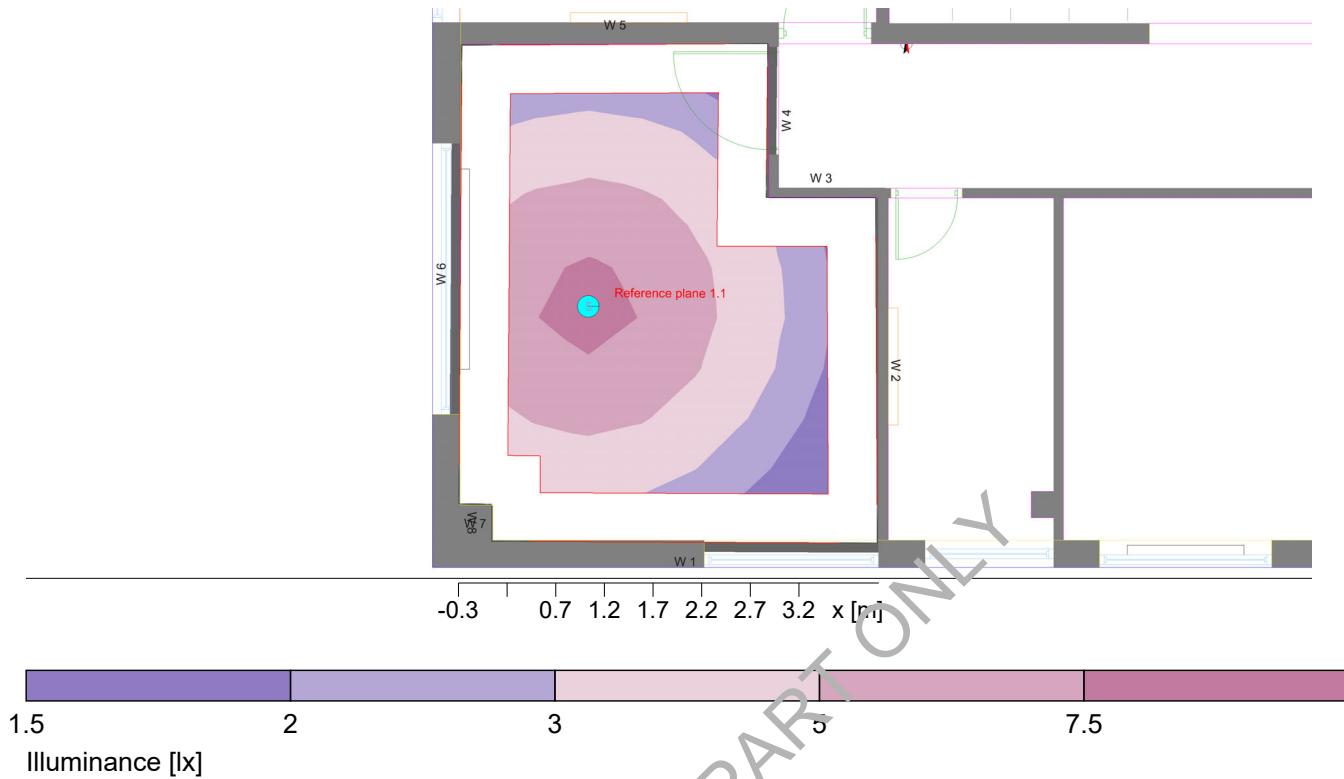
Object : Twickenham Learning Centre  
 Installation : Lighting Models  
 Project number :  
 Date : 25.04.2024

**RE**LUX®

## 16 Meeting Room 7 Em

### 16.2 Summary, Meeting Room 7 Em

#### 16.2.1 Result overview, Evaluation area 1



#### General

Calculation algorithm used

Direct component

Height of luminaire plane

2.60 m

Maintenance factor

0.80

Total luminous flux

185.00 lm

Total power

23.0 W

Total power per area (19.91 m<sup>2</sup>)

1.16 W/m<sup>2</sup> (24.72 W/m<sup>2</sup>/100lx)

#### Evaluation area 1

#### Reference plane 1.1

	Horizontal	cylindrical
$\bar{E}_m$	4.67 lx	2.51 lx
$E_{min}$	1.62 lx	0.44 lx
$E_{min}/\bar{E}_m (U_o)$	0.35	0.18
$E_{min}/E_{max} (U_d)$	0.20	
$E_z/E_h$		0.25
Position	0.00 m	1.60 m

#### Major surfaces

	$\bar{E}_m$	$U_o$
M 1.6 (Ceiling)	0 lx	---
M 1.1 (Wall)	1.47 lx	0.18
M 1.2 (Wall)	1.05 lx	0.26
M 1.3 (Wall)	1.12 lx	0.18
M 1.4 (Wall)	1.43 lx	0.33
M 1.5 (Wall)	3.74 lx	0.12

Object : Twickenham Learning Centre  
Installation : Lighting Models  
Project number :  
Date : 25.04.2024

**RE**LUX®

## 16 Meeting Room 7 Em

### 16.2 Summary, Meeting Room 7 Em

#### 16.2.1 Result overview, Evaluation area 1

Type No.\Make

6 1 x  **Spurlite Ltd**  
Order No. : !Boxer II 23w  
Luminaire name : Boxer II 23w EM  
Equipment : 1 x LED 23 W / 185 lm

DIRECT PART ONLY

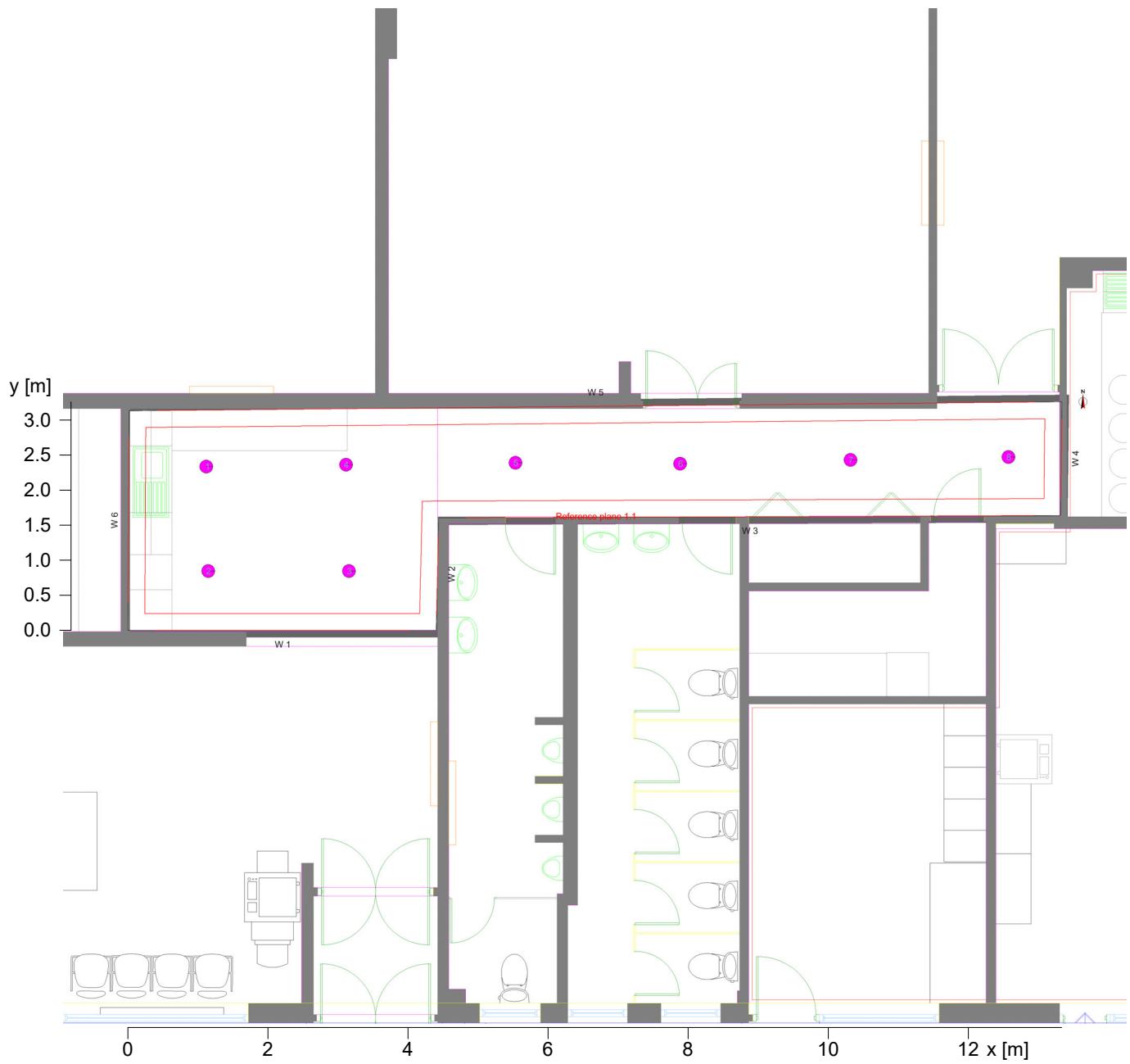
Object : Twickenham Learning Centre  
 Installation : Lighting Models  
 Project number :  
 Date : 25.04.2024

**RE**LUX®

## 17 Break out Space and corridor

### 17.1 Description, Break out Space and corridor

#### 17.1.1 Floor plan



Wall	x	y	Length	Reflectance
1	30.54 m	48.35 m	4.40 m	50.0 %
2	30.58 m	49.95 m	1.60 m	50.0 %
3	39.45 m	49.99 m	8.88 m	50.0 %
4	39.47 m	51.61 m	1.62 m	50.0 %
5	26.16 m	51.48 m	13.32 m	50.0 %
6	26.14 m	48.35 m	3.13 m	50.0 %
Floor				20.0 %
Ceiling				70.0 %
Room height	2.60 m			
Height of ref. plane	0.00 m			

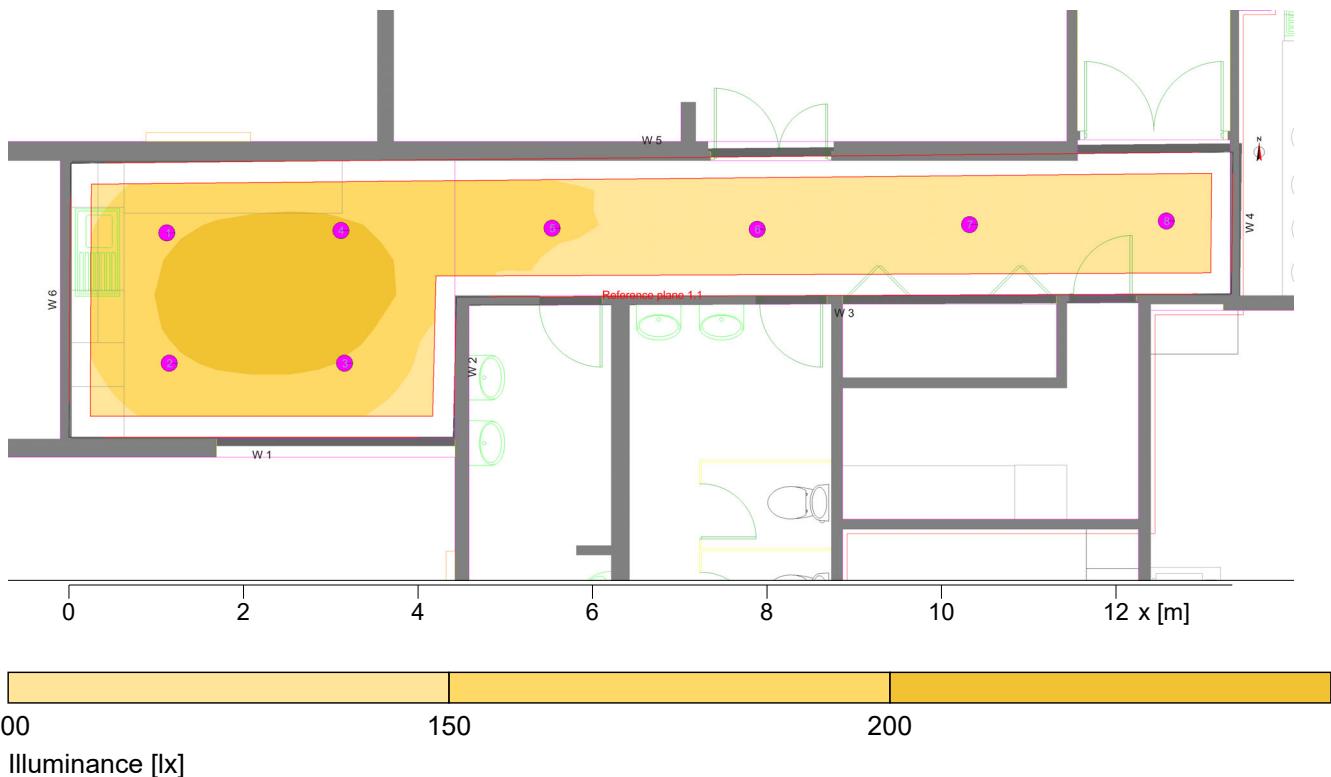
Object : Twickenham Learning Centre  
 Installation : Lighting Models  
 Project number :  
 Date : 25.04.2024

**RE**LUX®

## 17 Break out Space and corridor

### 17.2 Summary, Break out Space and corridor

#### 17.2.1 Result overview, Evaluation area 1



#### General

Calculation algorithm used	Average indirect fraction
Height of luminaire plane	2.60 m
Maintenance factor	0.80
Total luminous flux	11400.00 lm
Total power	88.8 W
Total power per area (28.11 m <sup>2</sup> )	3.16 W/m <sup>2</sup> (1.88 W/m <sup>2</sup> /100lx)

#### Evaluation area 1

#### Reference plane 1.1

$\bar{E}_m$	Horizontal	cylindrical
$E_{min}$	168 lx	111 lx
$E_{min}/\bar{E}_m (U_o)$	118 lx	67 lx
$E_{min}/E_{max} (U_d)$	0.70	0.61
$E_z/E_h$	0.53	0.37
Position	0.00 m	1.60 m

#### Major surfaces

M 1.7 (Ceiling)	$\bar{E}_m$	$U_o$
M 1.1 (Wall)	49 lx	0.83
M 1.2 (Wall)	145 lx	0.69
M 1.3 (Wall)	116 lx	0.70
M 1.4 (Wall)	119 lx	0.63
M 1.5 (Wall)	138 lx	0.54
M 1.6 (Wall)	127 lx	0.58
	138 lx	0.78

Object : Twickenham Learning Centre  
Installation : Lighting Models  
Project number :  
Date : 25.04.2024

**RE**LUX®

## 17 Break out Space and corridor

### 17.2 Summary, Break out Space and corridor

#### 17.2.1 Result overview, Evaluation area 1

##### Type No.\Make

		<b>Spurlite Ltd</b>
2	8 x	Order No. : 37 Series
		Luminaire name : Boxer II 15
		Equipment : 1 x LED 11.1 W / 1425 lm



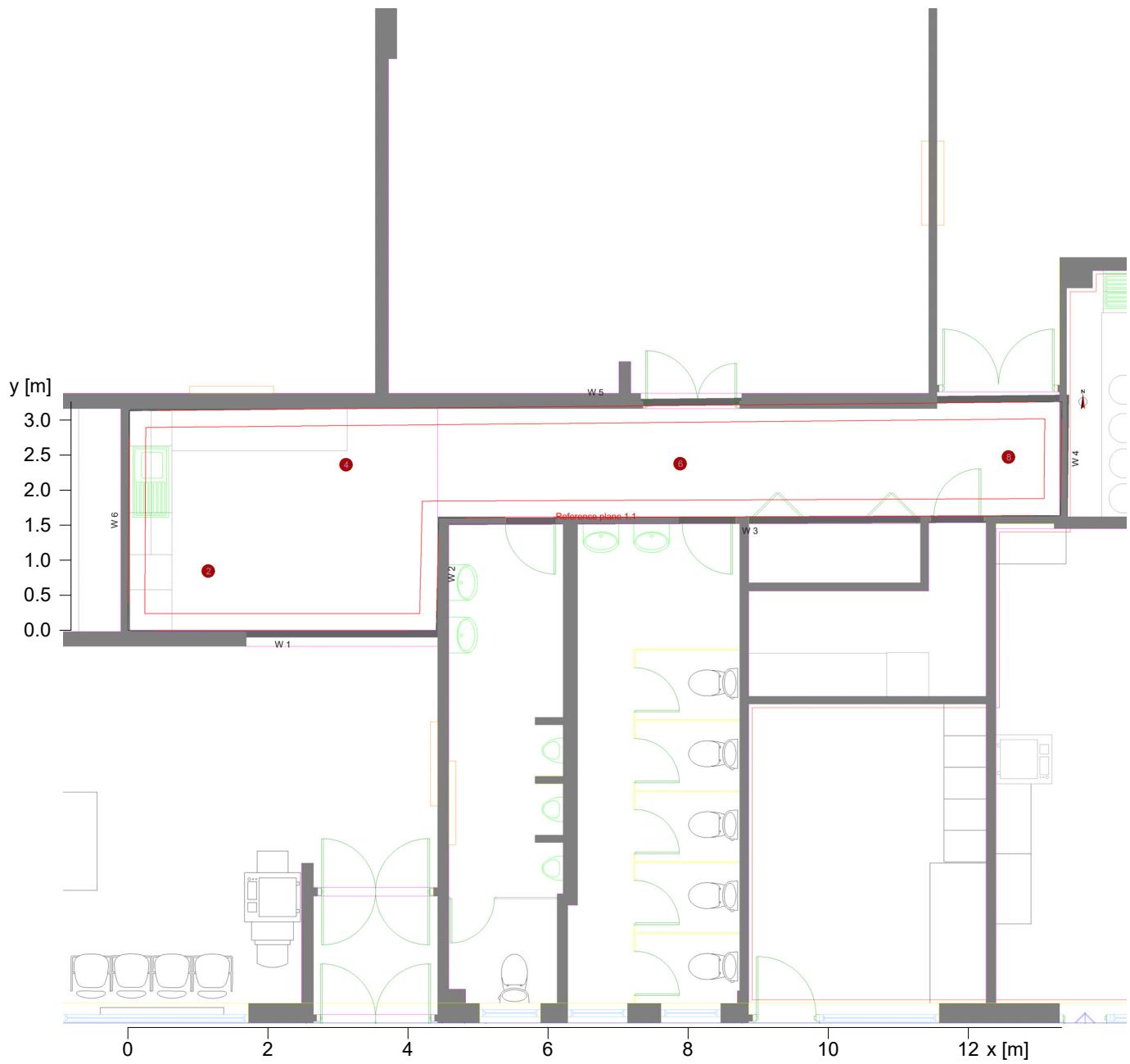
Object : Twickenham Learning Centre  
 Installation : Lighting Models  
 Project number :  
 Date : 25.04.2024

**RE**LUX®

## 18 Break out Space and corridor Em

### 18.1 Description, Break out Space and corridor Em

#### 18.1.1 Floor plan



Wall	x	y	Length	Reflectance
1	30.54 m	48.35 m	4.40 m	50.0 %
2	30.58 m	49.95 m	1.60 m	50.0 %
3	39.45 m	49.99 m	8.88 m	50.0 %
4	39.47 m	51.61 m	1.62 m	50.0 %
5	26.16 m	51.48 m	13.32 m	50.0 %
6	26.14 m	48.35 m	3.13 m	50.0 %
Floor				20.0 %
Ceiling				70.0 %
Room height	2.60 m			
Height of ref. plane	0.00 m			

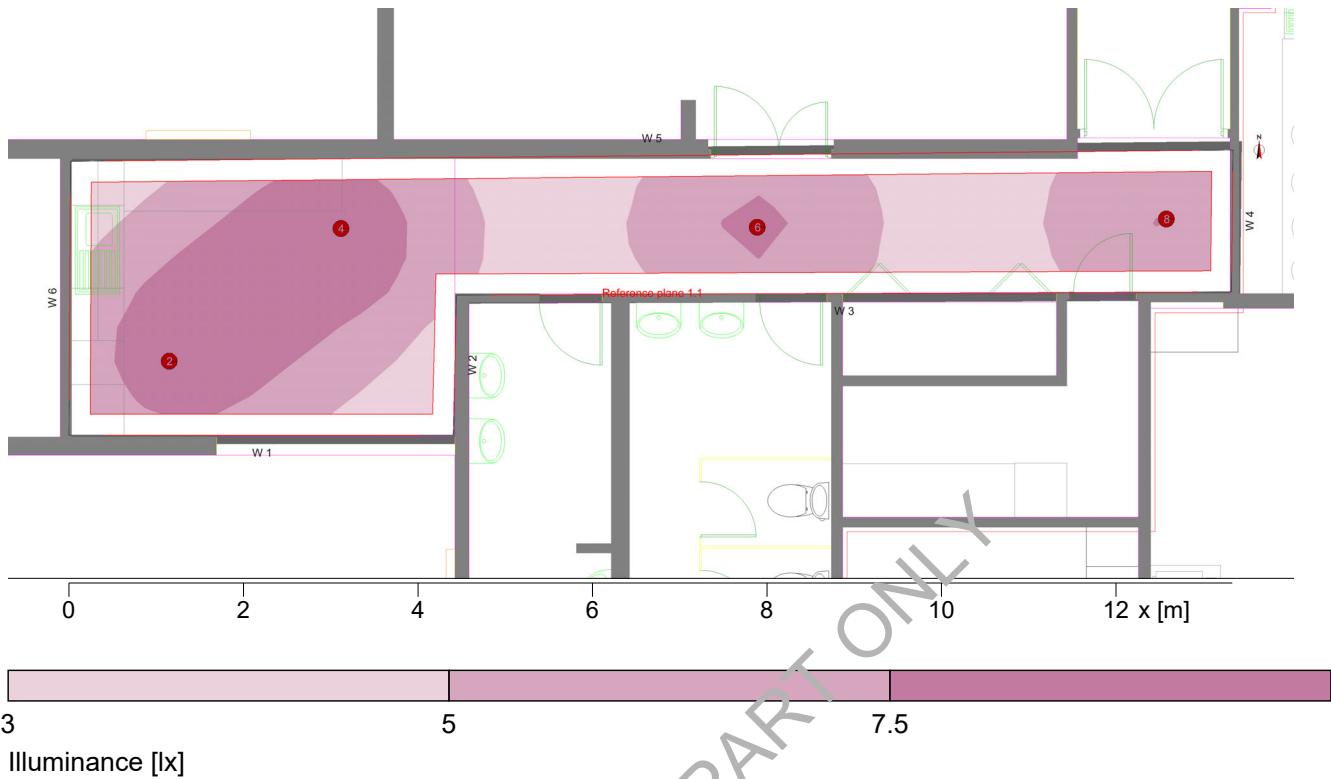
Object : Twickenham Learning Centre  
 Installation : Lighting Models  
 Project number :  
 Date : 25.04.2024

**RE**LUX®

## 18 Break out Space and corridor Em

### 18.2 Summary, Break out Space and corridor Em

#### 18.2.1 Result overview, Evaluation area 1



#### General

Calculation algorithm used

Direct component

Height of luminaire plane

2.60 m

Maintenance factor

0.80

Total luminous flux

620.00 lm

Total power

44.4 W

Total power per area (28.11 m<sup>2</sup>)

1.58 W/m<sup>2</sup> (24.25 W/m<sup>2</sup>/100lx)

#### Evaluation area 1

#### Reference plane 1.1

	Horizontal	cylindrical
$\bar{E}_m$	6.51 lx	3.26 lx
$E_{min}$	3.85 lx	1 lx
$E_{min}/\bar{E}_m (U_o)$	0.59	0.31
$E_{min}/E_{max} (U_d)$	0.41	
$E_z/E_h$		0.23
Position	0.00 m	1.60 m

#### Major surfaces

	$\bar{E}_m$	$U_o$
M 1.7 (Ceiling)	0 lx	---
M 1.1 (Wall)	5.38 lx	0.18
M 1.2 (Wall)	2.31 lx	0.21
M 1.3 (Wall)	4.04 lx	0.10
M 1.4 (Wall)	9.22 lx	0.32
M 1.5 (Wall)	4.45 lx	0.10
M 1.6 (Wall)	4.97 lx	0.23

Object : Twickenham Learning Centre  
Installation : Lighting Models  
Project number :  
Date : 25.04.2024

**RE**LUX®

## 18 Break out Space and corridor Em

### 18.2 Summary, Break out Space and corridor Em

#### 18.2.1 Result overview, Evaluation area 1

##### Type No.\Make

5 4 x  **Spurlite Ltd**  
Order No. : !37 Series  
Luminaire name : Boxer II 15 EM  
Equipment : 1 x LED 11.1 W / 155 lm

DIRECT PART ONLY

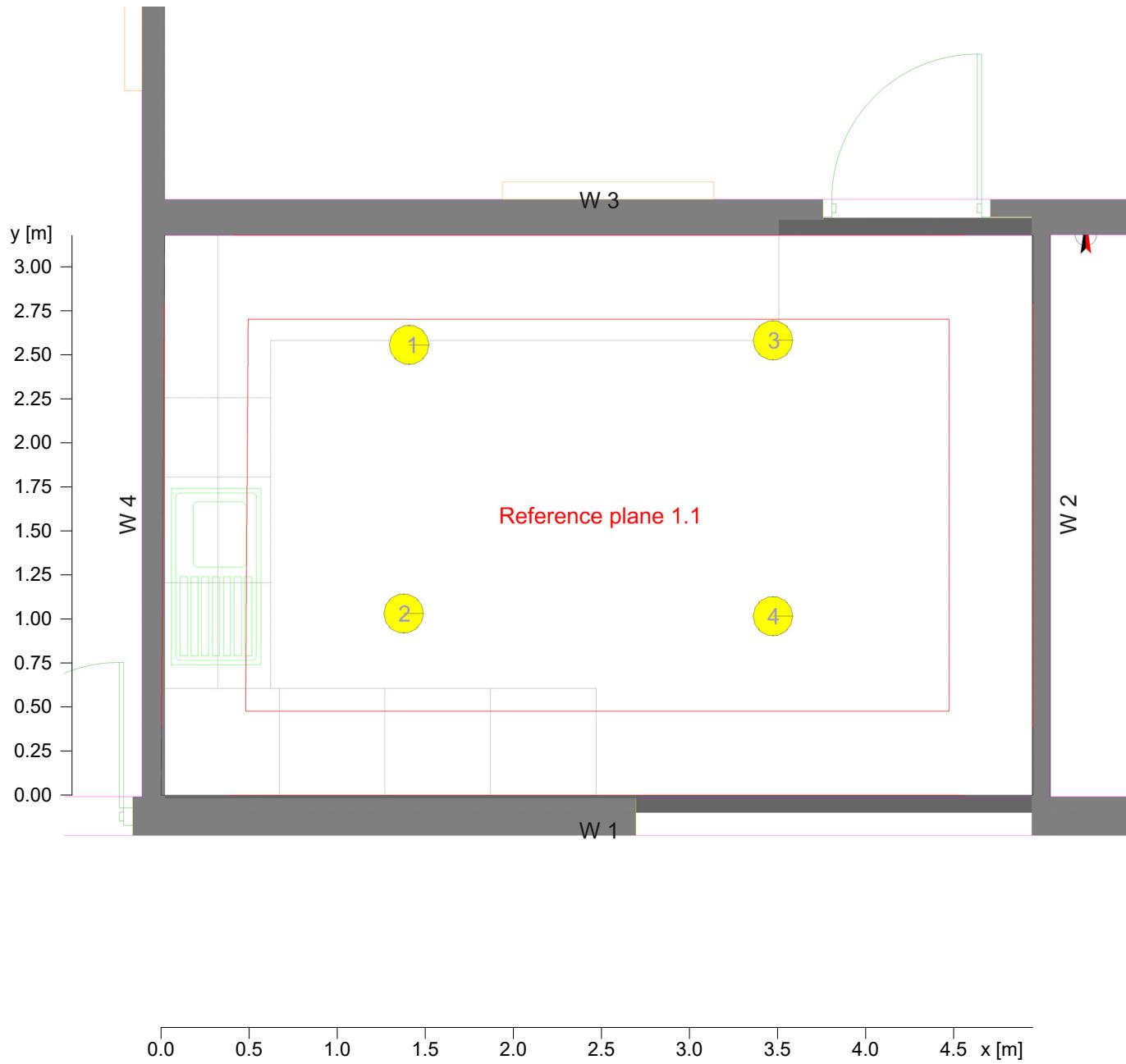
Object : Twickenham Learning Centre  
Installation : Lighting Models  
Project number :  
Date : 25.04.2024

**RE**LUX®

## 19 Delegates Kitchen

### 19.1 Description, Delegates Kitchen

#### 19.1.1 Floor plan



Wall	x	y	Length	Reflectance
1	17.60 m	48.35 m	4.95 m	50.0 %
2	17.60 m	51.53 m	3.18 m	50.0 %
3	12.67 m	51.53 m	4.93 m	50.0 %
4	12.65 m	48.35 m	3.18 m	50.0 %
Floor				20.0 %
Ceiling				70.0 %
Room height		2.60 m		
Height of ref. plane		0.75 m		

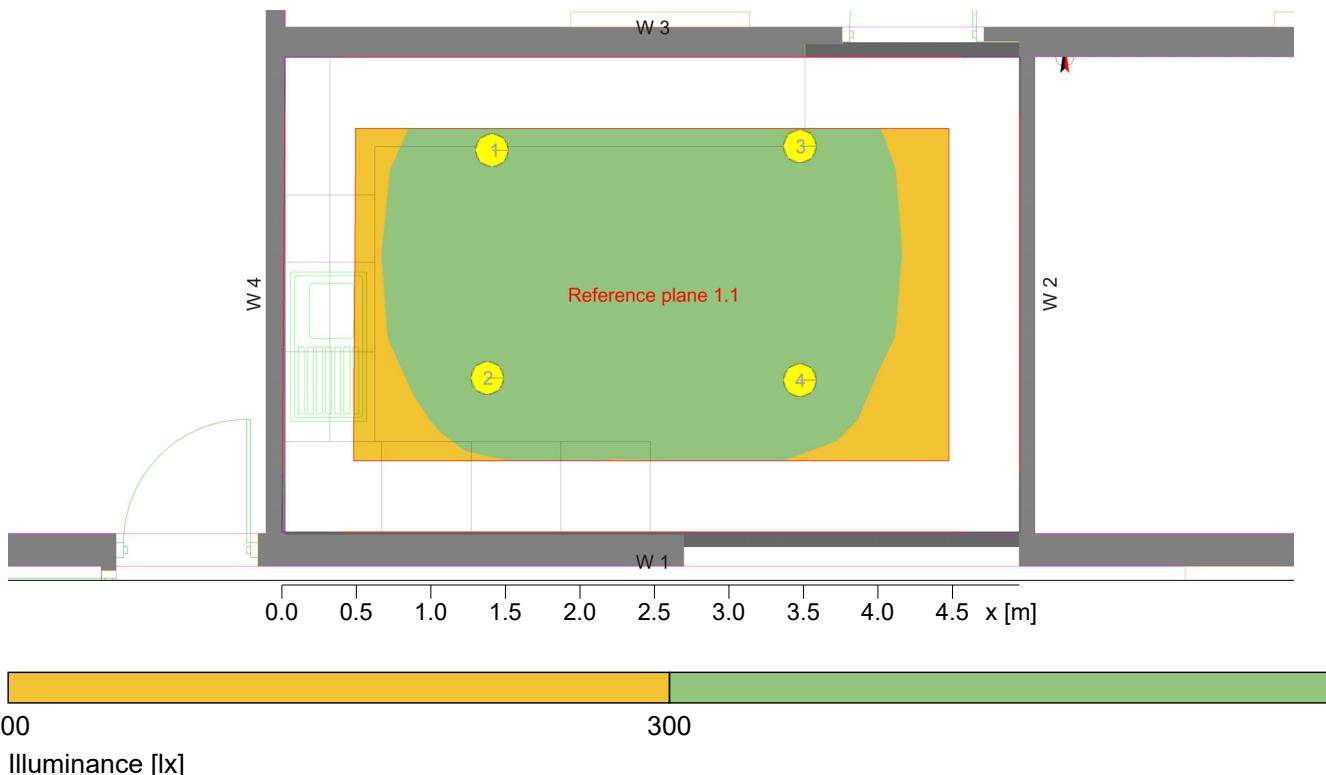
Object : Twickenham Learning Centre  
 Installation : Lighting Models  
 Project number :  
 Date : 25.04.2024

**RE**LUX®

## 19 Delegates Kitchen

### 19.2 Summary, Delegates Kitchen

#### 19.2.1 Result overview, Evaluation area 1



#### General

Calculation algorithm used	Average indirect fraction
Height of luminaire plane	2.60 m
Maintenance factor	0.80
Total luminous flux	8740.00 lm
Total power	92.0 W
Total power per area (15.69 m <sup>2</sup> )	5.86 W/m <sup>2</sup> (1.68 W/m <sup>2</sup> /100lx)

#### Evaluation area 1

#### Reference plane 1.1

	Horizontal	cylindrical
$\bar{E}_m$	348 lx	146 lx
$E_{min}$	253 lx	124 lx
$E_{min}/\bar{E}_m (U_o)$	0.73	0.85
$E_{min}/E_{max} (U_d)$	0.63	
$E_z/E_h$		0.35
Position	0.75 m	1.20 m

#### Major surfaces

M	$\bar{E}_m$	$U_o$
M 1.5 (Ceiling)	71 lx	0.89
M 1.1 (Wall)	187 lx	0.63
M 1.2 (Wall)	163 lx	0.74
M 1.3 (Wall)	221 lx	0.55
M 1.4 (Wall)	173 lx	0.76

Type No.\Make

Object : Twickenham Learning Centre  
Installation : Lighting Models  
Project number :  
Date : 25.04.2024



## 19 Delegates Kitchen

### 19.2 Summary, Delegates Kitchen

#### 19.2.1 Result overview, Evaluation area 1

1 4 x  **Spurlite Ltd**  
Order No. : Boxer II 23w  
Luminaire name : Boxer II 23w  
Equipment : 1 x LED 23 W / 2185 lm

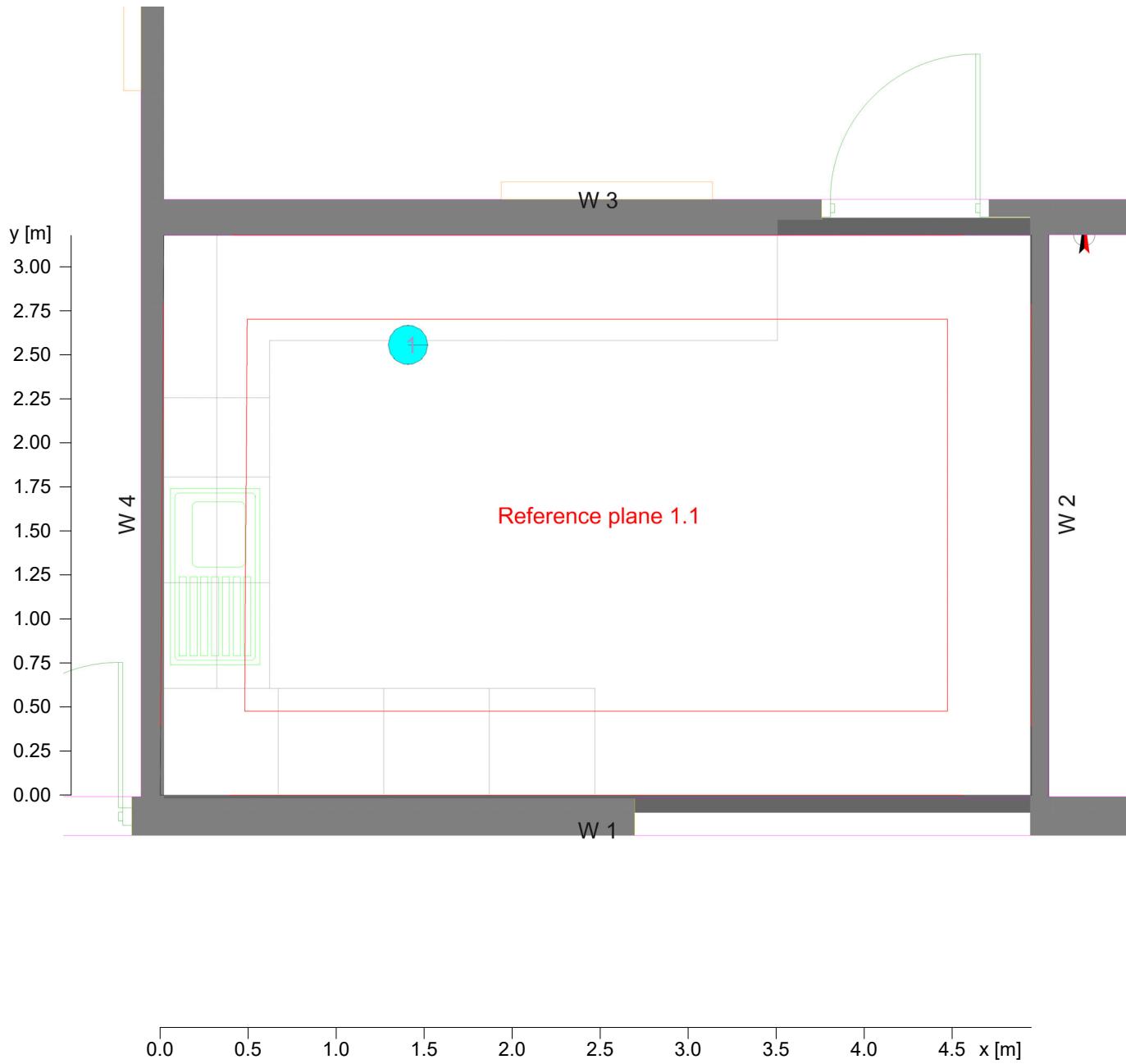
Object : Twickenham Learning Centre  
Installation : Lighting Models  
Project number :  
Date : 25.04.2024

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## 20 Delegates Kitchen Em

### 20.1 Description, Delegates Kitchen Em

#### 20.1.1 Floor plan



Wall	x	y	Length	Reflectance
1	17.60 m	48.35 m	4.95 m	50.0 %
2	17.60 m	51.53 m	3.18 m	50.0 %
3	12.67 m	51.53 m	4.93 m	50.0 %
4	12.65 m	48.35 m	3.18 m	50.0 %
Floor				20.0 %
Ceiling				70.0 %
Room height	2.60 m			
Height of ref. plane	0.00 m			

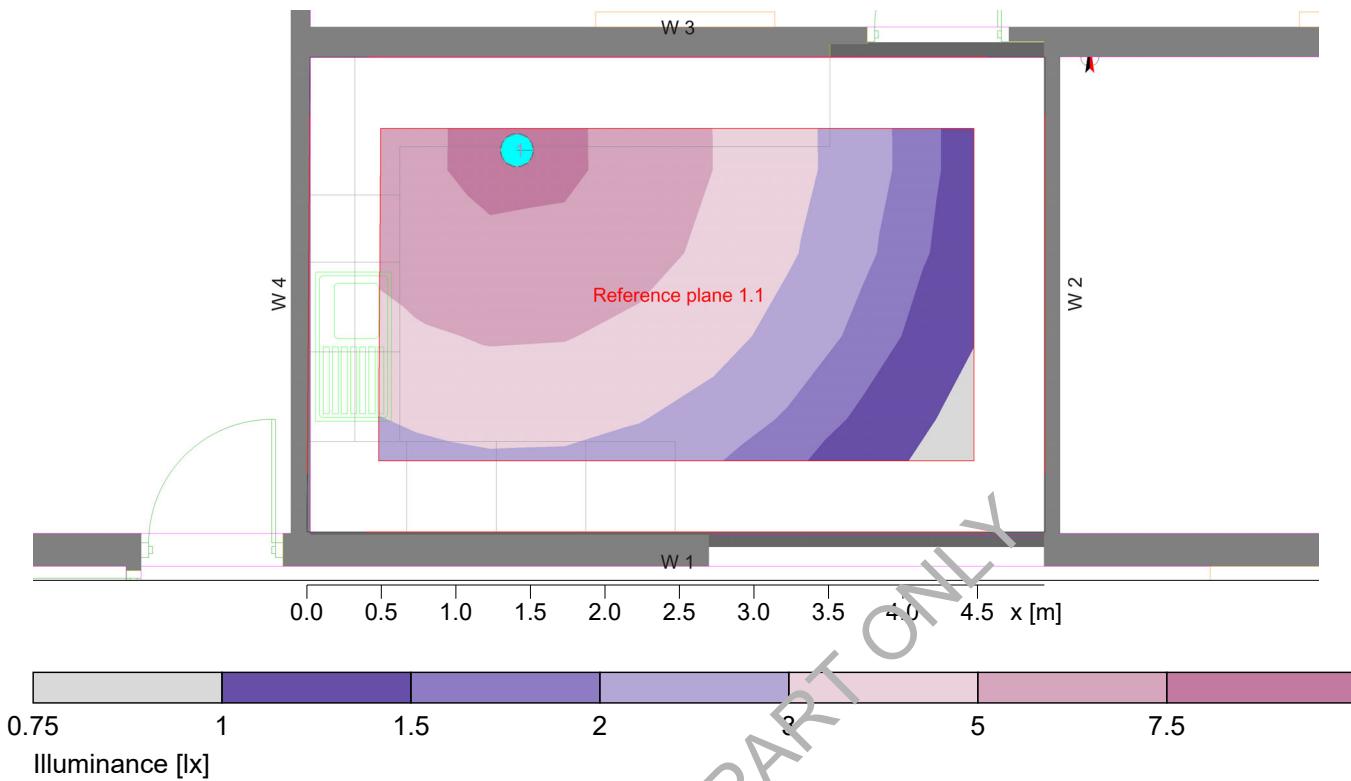
Object : Twickenham Learning Centre  
 Installation : Lighting Models  
 Project number :  
 Date : 25.04.2024

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## 20 Delegates Kitchen Em

### 20.2 Summary, Delegates Kitchen Em

#### 20.2.1 Result overview, Evaluation area 1



#### General

Calculation algorithm used

Direct component

Height of luminaire plane

2.60 m

Maintenance factor

0.80

Total luminous flux

185.00 lm

Total power

23.0 W

Total power per area (15.69 m<sup>2</sup>)

1.47 W/m<sup>2</sup> (36.76 W/m<sup>2</sup>/100lx)

#### Evaluation area 1

#### Reference plane 1.1

$\bar{E}_m$	Horizontal	cylindrical
$E_{min}$	3.99 lx	2.06 lx
$E_{min}/\bar{E}_m (U_o)$	1 lx	0.24 lx
$E_{min}/E_{max} (U_d)$	0.25	0.12
$E_z/E_h$	0.12	0.25
Position	0.00 m	1.60 m

#### Major surfaces

M	$\bar{E}_m$	$U_o$
M 1.5 (Ceiling)	0 lx	---
M 1.1 (Wall)	1.2 lx	0.09
M 1.2 (Wall)	0.65 lx	0.23
M 1.3 (Wall)	5.13 lx	0.02
M 1.4 (Wall)	3.56 lx	0.17

Type No.\Make

Object : Twickenham Learning Centre  
Installation : Lighting Models  
Project number :  
Date : 25.04.2024



## 20 Delegates Kitchen Em

### 20.2 Summary, Delegates Kitchen Em

#### 20.2.1 Result overview, Evaluation area 1

6 1 x  Spurlite Ltd  
Order No. : !Boxer II 23w  
Luminaire name : Boxer II 23w EM  
Equipment : 1 x LED 23 W / 185 lm

DIRECT PART ONLY

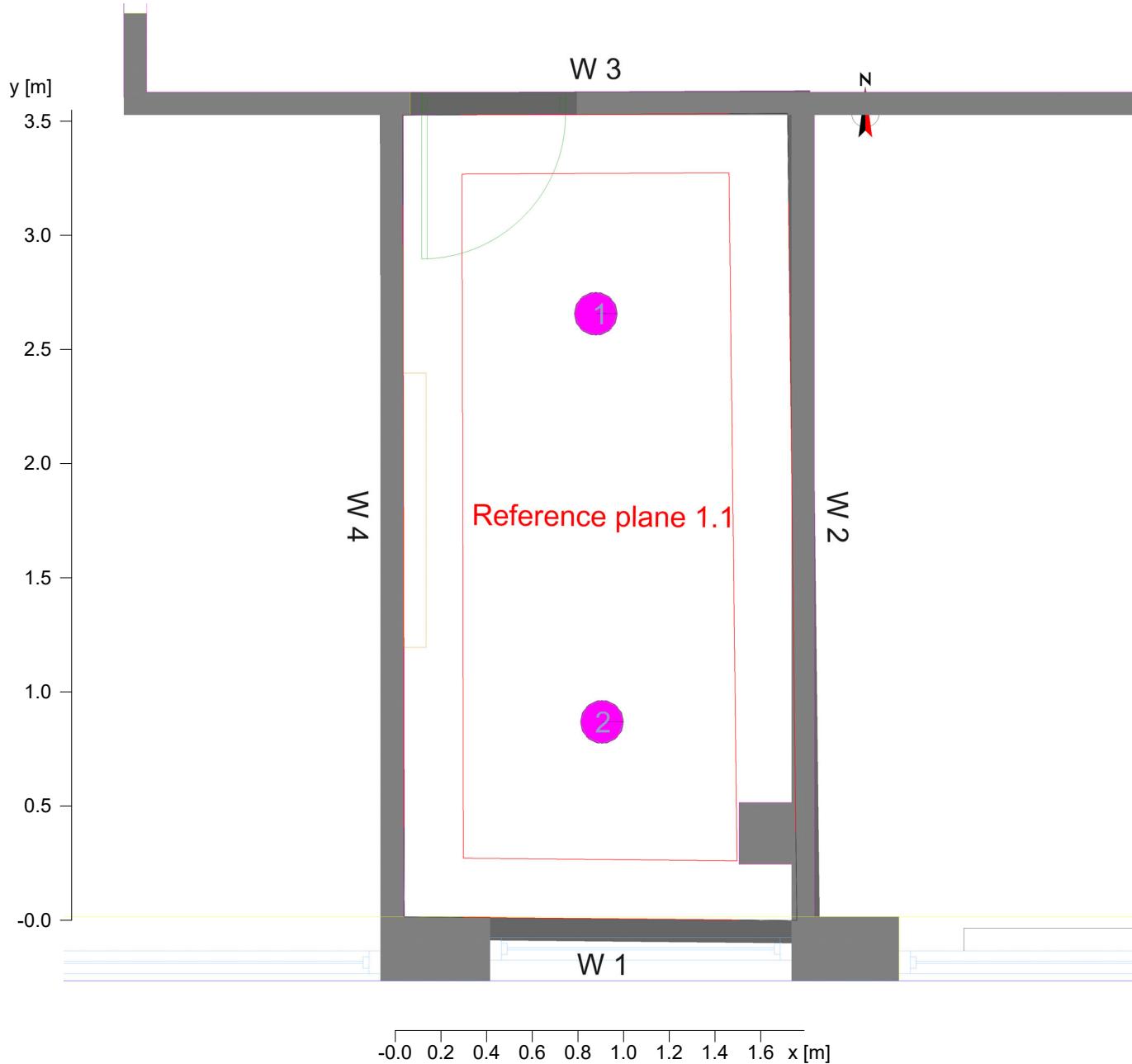
Object : Twickenham Learning Centre  
Installation : Lighting Models  
Project number :  
Date : 25.04.2024

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## 21 Store room

### 21.1 Description, Store room

#### 21.1.1 Floor plan



Wall	x	y	Length	Reflectance
1	14.38 m	43.01 m	1.72 m	50.0 %
2	14.34 m	46.55 m	3.53 m	50.0 %
3	12.66 m	46.54 m	1.68 m	50.0 %
4	12.66 m	43.03 m	3.51 m	50.0 %
Floor				20.0 %
Ceiling				70.0 %
Room height		2.60 m		
Height of ref. plane		0.00 m		

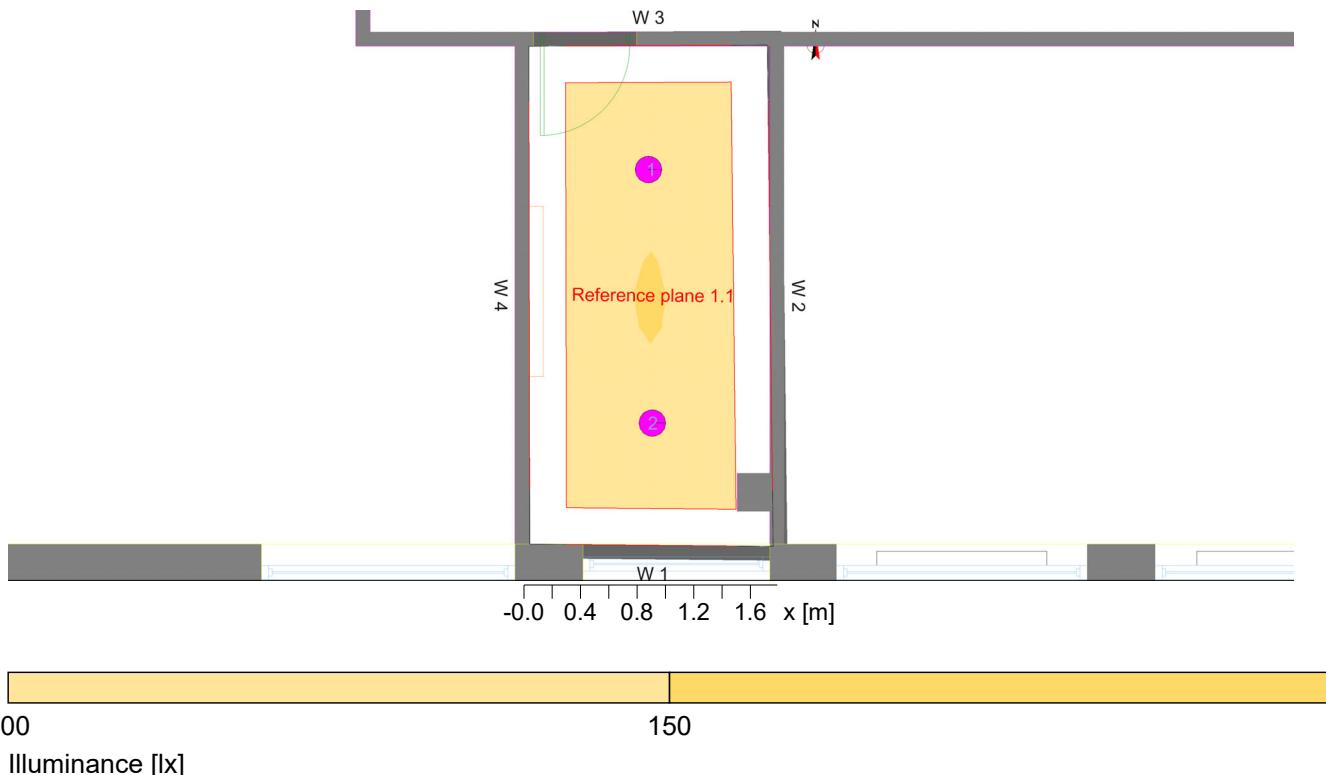
Object : Twickenham Learning Centre  
 Installation : Lighting Models  
 Project number :  
 Date : 25.04.2024

**RE**LUX®

## 21 Store room

### 21.2 Summary, Store room

#### 21.2.1 Result overview, Evaluation area 1



#### General

Calculation algorithm used	Average indirect fraction
Height of luminaire plane	2.60 m
Maintenance factor	0.80
Total luminous flux	2850.00 lm
Total power	22.2 W
Total power per area (5.99 m <sup>2</sup> )	3.71 W/m <sup>2</sup> (2.73 W/m <sup>2</sup> /100lx)

#### Evaluation area 1

#### Reference plane 1.1

$\bar{E}_m$	Horizontal	cylindrical
$E_{min}$	136 lx	108 lx
$E_{min}/\bar{E}_m (U_o)$	113 lx	70 lx
$E_{min}/E_{max} (U_d)$	0.83	0.64
$E_z/E_h$	0.75	0.31
Position	0.00 m	1.60 m

#### Major surfaces

M 1.5 (Ceiling)	$\bar{E}_m$	$U_o$
M 1.1 (Wall)	52 lx	0.93
M 1.2 (Wall)	129 lx	0.59
M 1.3 (Wall)	133 lx	0.60
M 1.4 (Wall)	127 lx	0.59
	133 lx	0.59

Type No.\Make

Object : Twickenham Learning Centre  
Installation : Lighting Models  
Project number :  
Date : 25.04.2024



## 21 Store room

### 21.2 Summary, Store room

#### 21.2.1 Result overview, Evaluation area 1

2 2 x  **Spurlite Ltd**  
Order No. : 37 Series  
Luminaire name : Boxer II 15  
Equipment : 1 x LED 11.1 W / 1425 lm

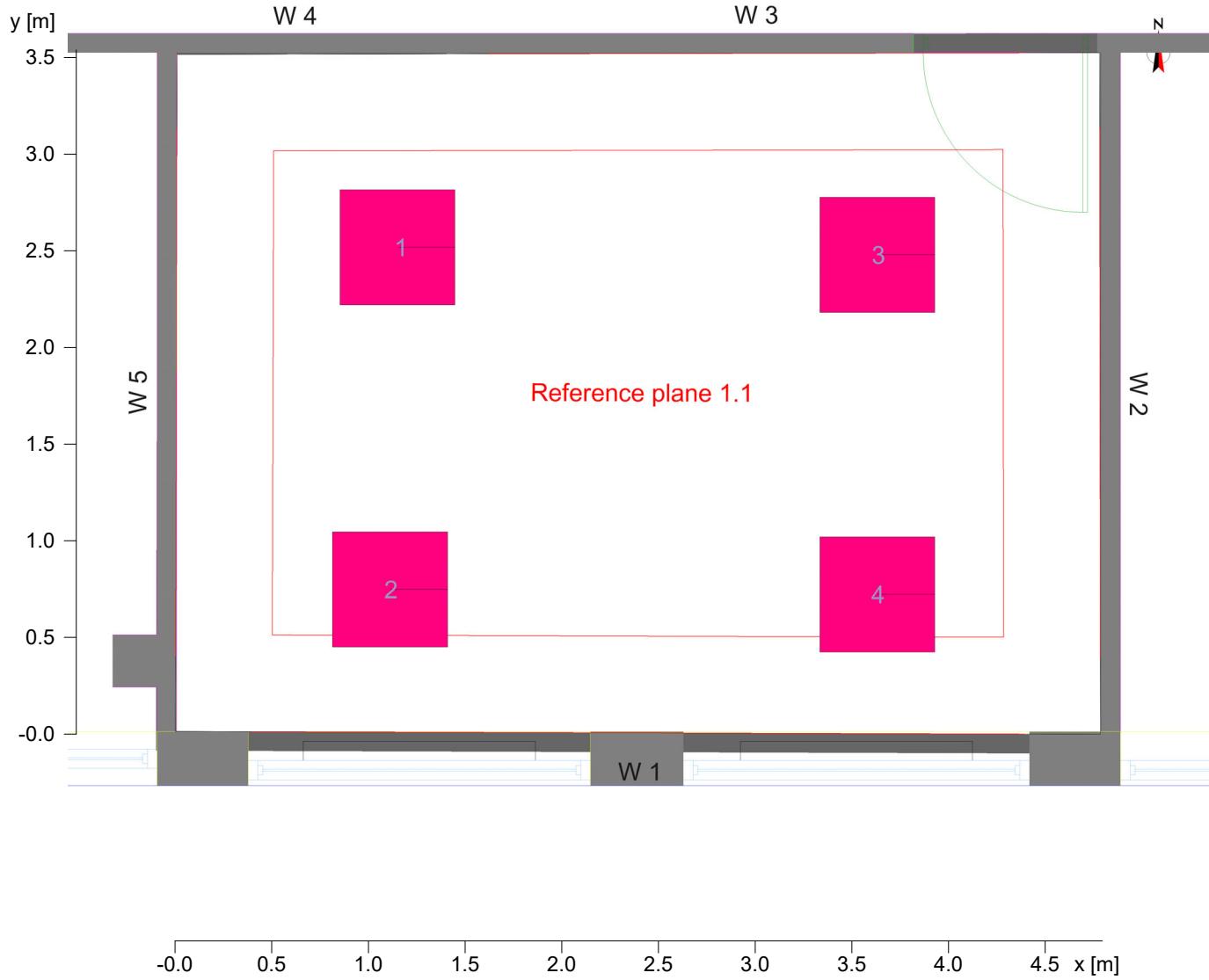
Object : Twickenham Learning Centre  
Installation : Lighting Models  
Project number :  
Date : 25.04.2024

**RE**LUX®

## 22 Admin Office

### 22.1 Description, Admin Office

#### 22.1.1 Floor plan



Wall	x	y	Length	Reflectance
1	19.23 m	43.02 m	4.78 m	50.0 %
2	19.23 m	46.54 m	3.52 m	50.0 %
3	15.68 m	46.53 m	3.55 m	50.0 %
4	14.46 m	46.53 m	1.22 m	50.0 %
5	14.45 m	43.03 m	3.50 m	50.0 %
Floor				20.0 %
Ceiling				70.0 %
Room height			2.60 m	
Height of ref. plane			0.75 m	

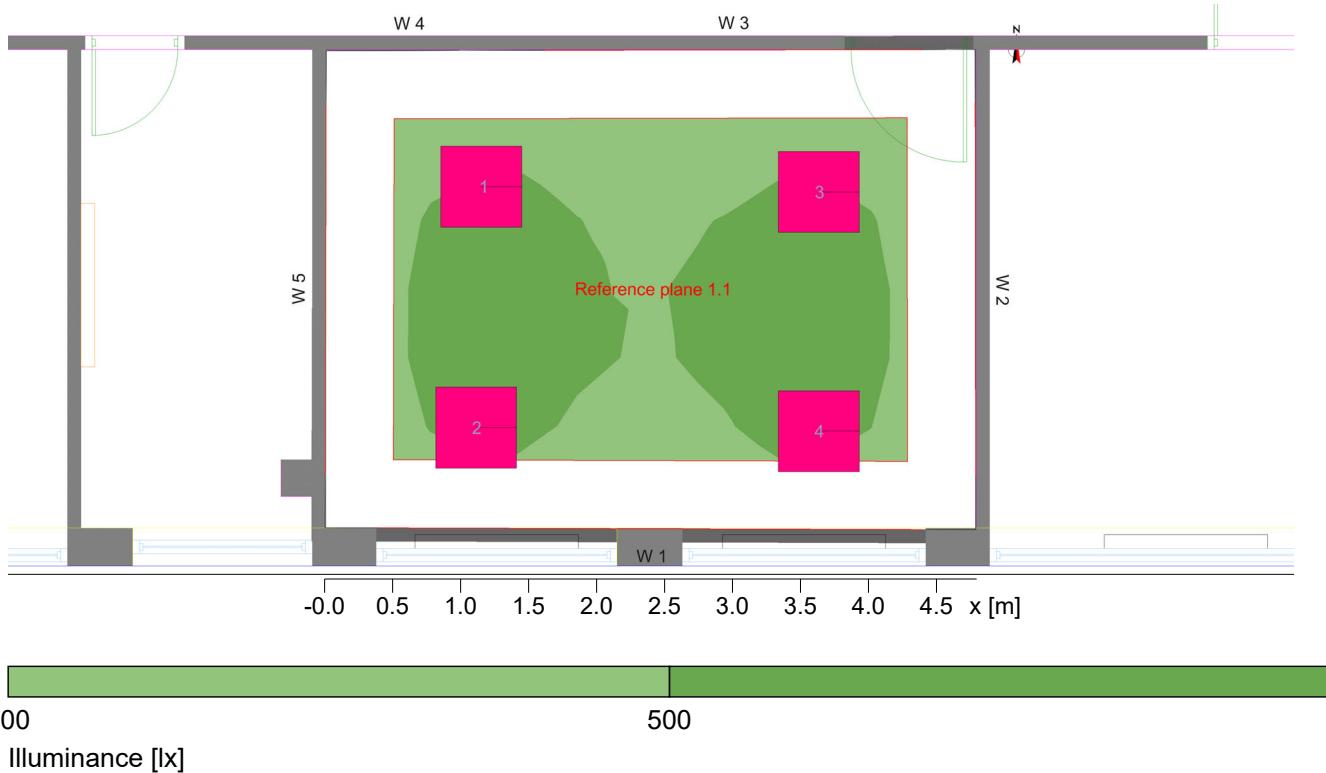
Object : Twickenham Learning Centre  
 Installation : Lighting Models  
 Project number :  
 Date : 25.04.2024

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## 22 Admin Office

### 22.2 Summary, Admin Office

#### 22.2.1 Result overview, Evaluation area 1



#### General

Calculation algorithm used	Average indirect fraction
Height of luminaire plane	2.60 m
Maintenance factor	0.80
Total luminous flux	12800.00 lm
Total power	120.0 W
Total power per area (16.77 m <sup>2</sup> )	7.16 W/m <sup>2</sup> (1.41 W/m <sup>2</sup> /100lx)

#### Evaluation area 1

#### Reference plane 1.1

$\bar{E}_m$	Horizontal	cylindrical
$E_{min}$	509 lx	191 lx
$E_{min}/\bar{E}_m (U_o)$	422 lx	159 lx
$E_{min}/E_{max} (U_d)$	0.83	0.83
$E_z/E_h$	0.74	0.32
Position	0.75 m	1.20 m

#### Major surfaces

M	$\bar{E}_m$	$U_o$
M 1.5 (Ceiling)	92 lx	0.94
M 1.1 (Wall)	267 lx	0.58
M 1.2 (Wall)	236 lx	0.79
M 1.3 (Wall)	218 lx	0.74
M 1.4 (Wall)	240 lx	0.79

Type No.\Make

Object : Twickenham Learning Centre  
Installation : Lighting Models  
Project number :  
Date : 25.04.2024



## 22 Admin Office

### 22.2 Summary, Admin Office

#### 22.2.1 Result overview, Evaluation area 1

4 4 x  **Tamlite Lighting**  
Order No. : !PBL66300NW  
Luminaire name : MOD66/30w/4k  
Equipment : 1 x LED 30 W / 3200 lm

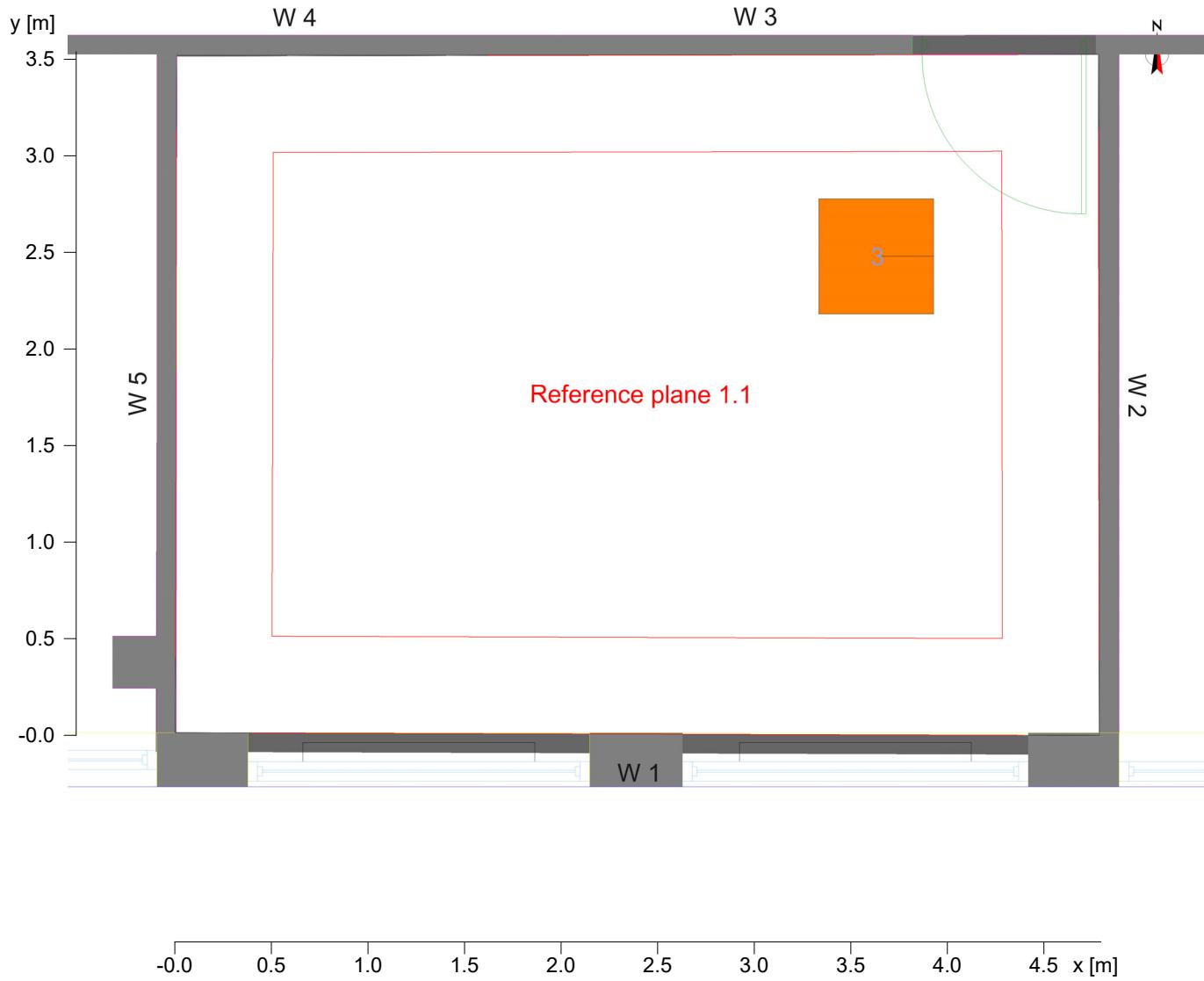
Object : Twickenham Learning Centre  
Installation : Lighting Models  
Project number :  
Date : 25.04.2024

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## 23 Admin Office Em

### 23.1 Description, Admin Office Em

#### 23.1.1 Floor plan



Wall	x	y	Length	Reflectance
1	19.23 m	43.02 m	4.78 m	50.0 %
2	19.23 m	46.54 m	3.52 m	50.0 %
3	15.68 m	46.53 m	3.55 m	50.0 %
4	14.46 m	46.53 m	1.22 m	50.0 %
5	14.45 m	43.03 m	3.50 m	50.0 %
Floor				20.0 %
Ceiling				70.0 %
Room height		2.60 m		
Height of ref. plane		0.00 m		

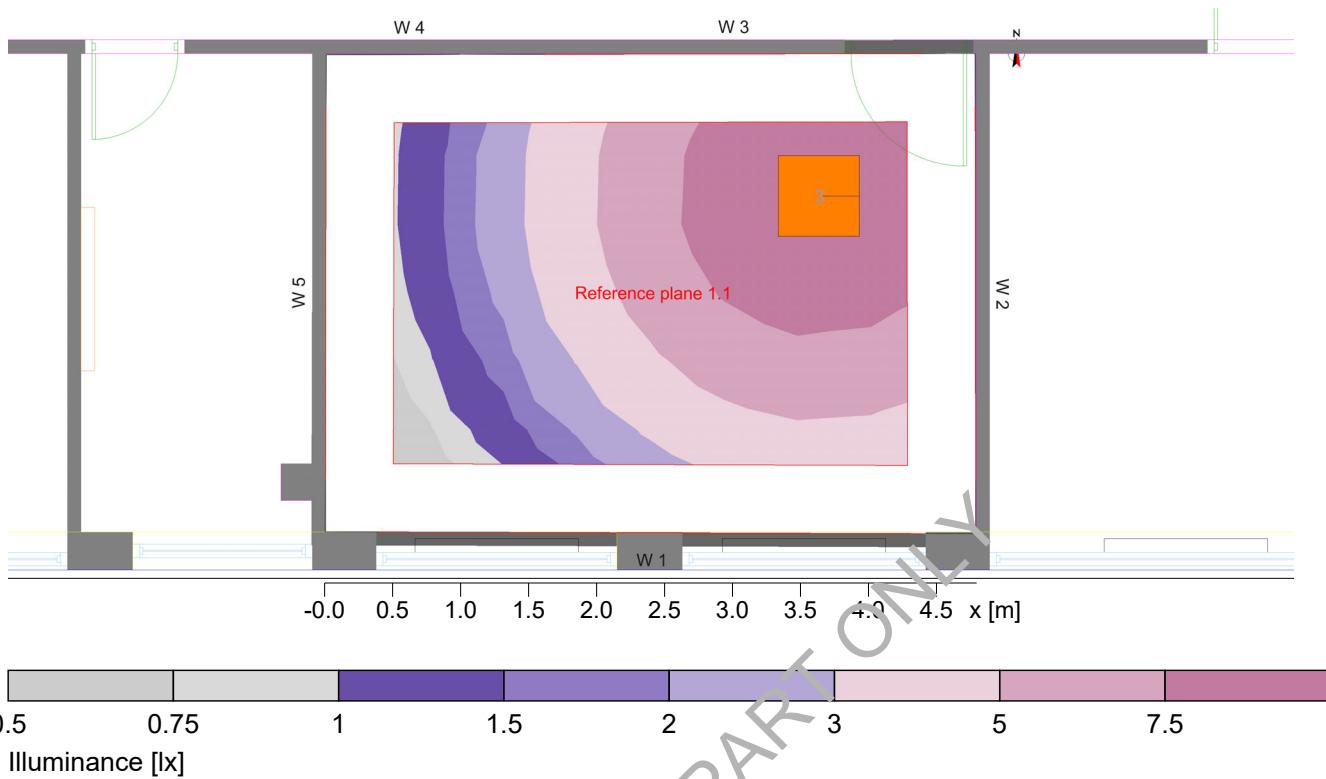
Object : Twickenham Learning Centre  
 Installation : Lighting Models  
 Project number :  
 Date : 25.04.2024

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## 23 Admin Office Em

### 23.2 Summary, Admin Office Em

#### 23.2.1 Result overview, Evaluation area 1



#### General

Calculation algorithm used

Direct component

Height of luminaire plane

2.60 m

Maintenance factor

0.80

Total luminous flux

185.00 lm

Total power

30.0 W

Total power per area (16.77 m<sup>2</sup>)

1.79 W/m<sup>2</sup> (35.95 W/m<sup>2</sup>/100lx)

#### Evaluation area 1

#### Reference plane 1.1

$\bar{E}_m$

Horizontal

cylindrical

$E_{min}$

4.98 lx

2.1 lx

$E_{min}/\bar{E}_m (U_o)$

0.72 lx

0.19 lx

$E_{min}/E_{max} (U_d)$

0.15

0.09

$E_z/E_h$

0.07

0.20

Position

0.00 m

1.60 m

#### Major surfaces

M 1.5 (Ceiling)

$\bar{E}_m$

$U_o$

M 1.1 (Wall)

0 lx

---

M 1.2 (Wall)

0.79 lx

0.18

M 1.3 (Wall)

4.27 lx

0.16

M 1.4 (Wall)

4.78 lx

0.16

M 1.5 (Wall)

0.46 lx

0.42

Type No.\Make

Object : Twickenham Learning Centre  
Installation : Lighting Models  
Project number :  
Date : 25.04.2024



## 23 Admin Office Em

### 23.2 Summary, Admin Office Em

#### 23.2.1 Result overview, Evaluation area 1

Tamlite Lighting	
3	1 x
	Order No. : !PBL66300NW EM
	Luminaire name : MOD66/30/4K/EM
	Equipment : 1 x LED 30 W / 185 lm

DIRECT PART ONLY

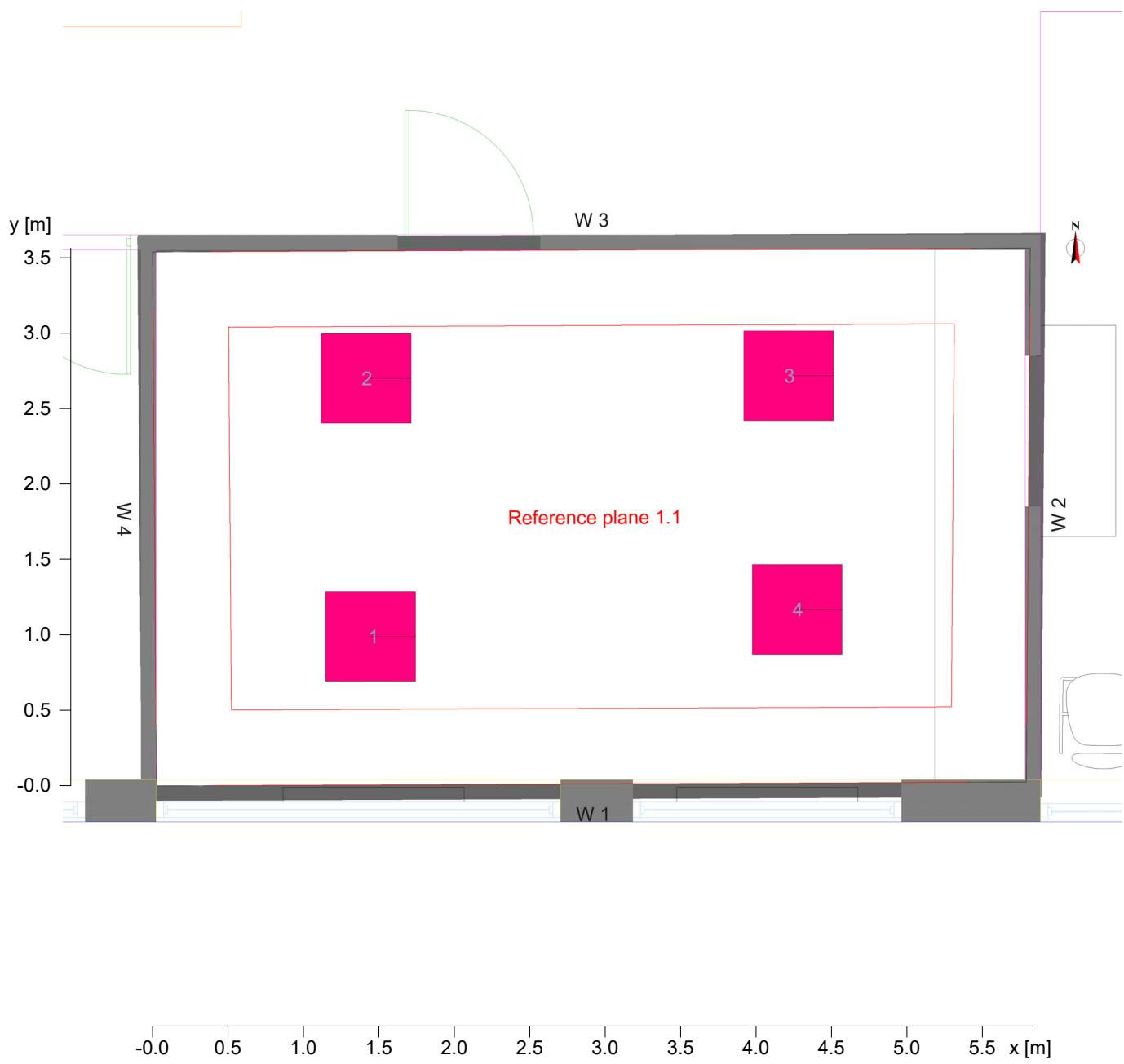
Object : Twickenham Learning Centre  
Installation : Lighting Models  
Project number :  
Date : 25.04.2024

**RE**LUX®

## 24 Reception Office

### 24.1 Description, Reception Office

#### 24.1.1 Floor plan



Wall	x	y	Length	Reflectance
1	25.11 m	43.01 m	5.76 m	50.0 %
2	25.13 m	46.55 m	3.54 m	50.0 %
3	19.32 m	46.53 m	5.82 m	50.0 %
4	19.34 m	42.99 m	3.54 m	50.0 %
Floor				20.0 %
Ceiling				70.0 %
Room height			2.60 m	
Height of ref. plane			0.75 m	

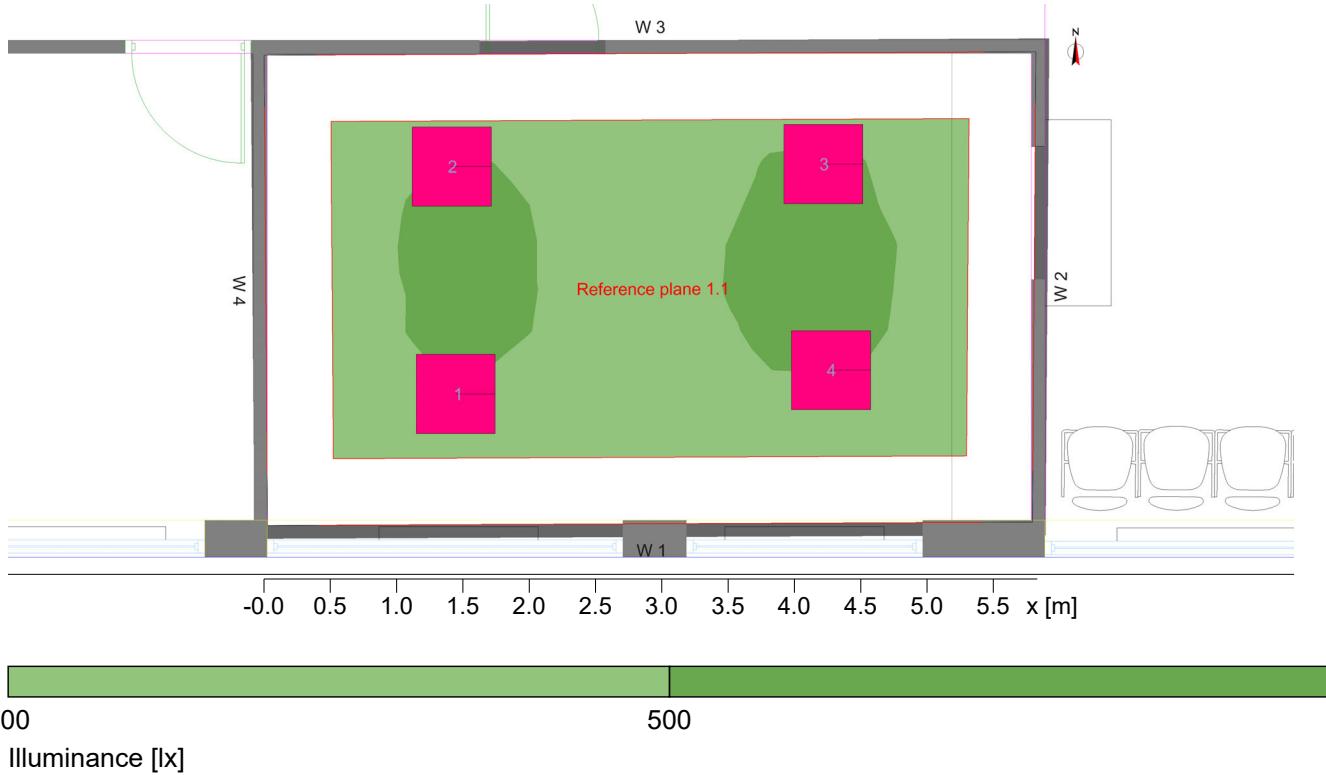
Object : Twickenham Learning Centre  
 Installation : Lighting Models  
 Project number :  
 Date : 25.04.2024

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## 24 Reception Office

### 24.2 Summary, Reception Office

#### 24.2.1 Result overview, Evaluation area 1



#### General

Calculation algorithm used	Average indirect fraction
Height of luminaire plane	2.60 m
Maintenance factor	0.80
Total luminous flux	12800.00 lm
Total power	120.0 W
Total power per area (20.48 m <sup>2</sup> )	5.86 W/m <sup>2</sup> (1.27 W/m <sup>2</sup> /100lx)

#### Evaluation area 1

#### Reference plane 1.1

	Horizontal	cylindrical
$\bar{E}_m$	463 lx	170 lx
$E_{min}$	356 lx	136 lx
$E_{min}/\bar{E}_m (U_o)$	0.77	0.80
$E_{min}/E_{max} (U_d)$	0.62	
$E_z/E_h$		0.32
Position	0.75 m	1.20 m

#### Major surfaces

	$\bar{E}_m$	$U_o$
M 1.5 (Ceiling)	77 lx	0.89
M 1.1 (Wall)	191 lx	0.59
M 1.2 (Wall)	171 lx	0.72
M 1.3 (Wall)	217 lx	0.54
M 1.4 (Wall)	186 lx	0.76

Type No.\Make

Object : Twickenham Learning Centre  
Installation : Lighting Models  
Project number :  
Date : 25.04.2024



## 24 Reception Office

### 24.2 Summary, Reception Office

#### 24.2.1 Result overview, Evaluation area 1

4 4 x  **Tamlite Lighting**  
Order No. : !PBL66300NW  
Luminaire name : MOD66/30w/4k  
Equipment : 1 x LED 30 W / 3200 lm

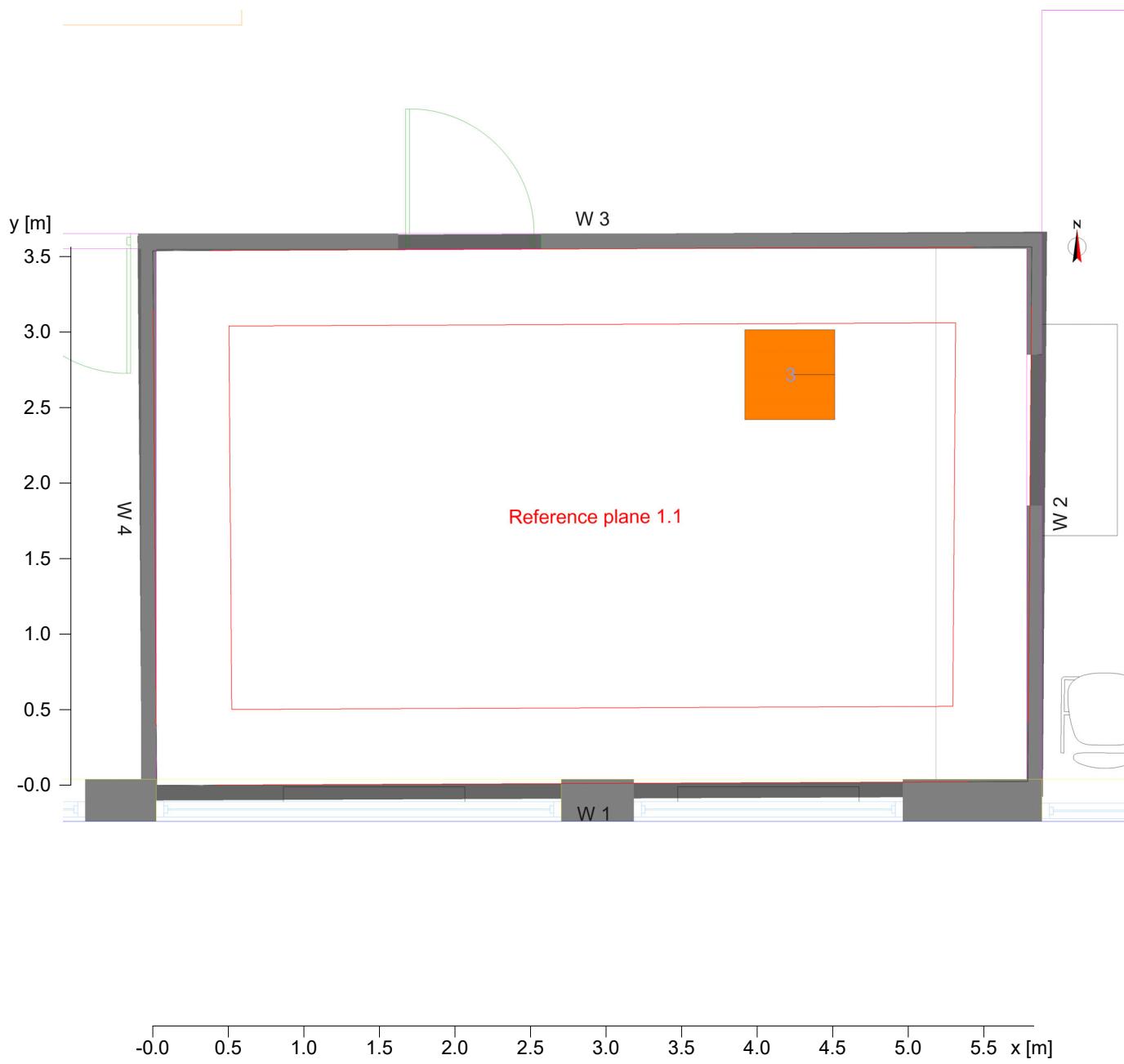
Object : Twickenham Learning Centre  
Installation : Lighting Models  
Project number :  
Date : 25.04.2024

**RE**LUX®

## 25 Reception Office Em

### 25.1 Description, Reception Office Em

#### 25.1.1 Floor plan



Wall	$x$	$y$	Length	Reflectance
1	25.11 m	43.01 m	5.76 m	50.0 %
2	25.13 m	46.55 m	3.54 m	50.0 %
3	19.32 m	46.53 m	5.82 m	50.0 %
4	19.34 m	42.99 m	3.54 m	50.0 %
Floor				20.0 %
Ceiling				70.0 %
Room height		2.60 m		
Height of ref. plane		0.00 m		

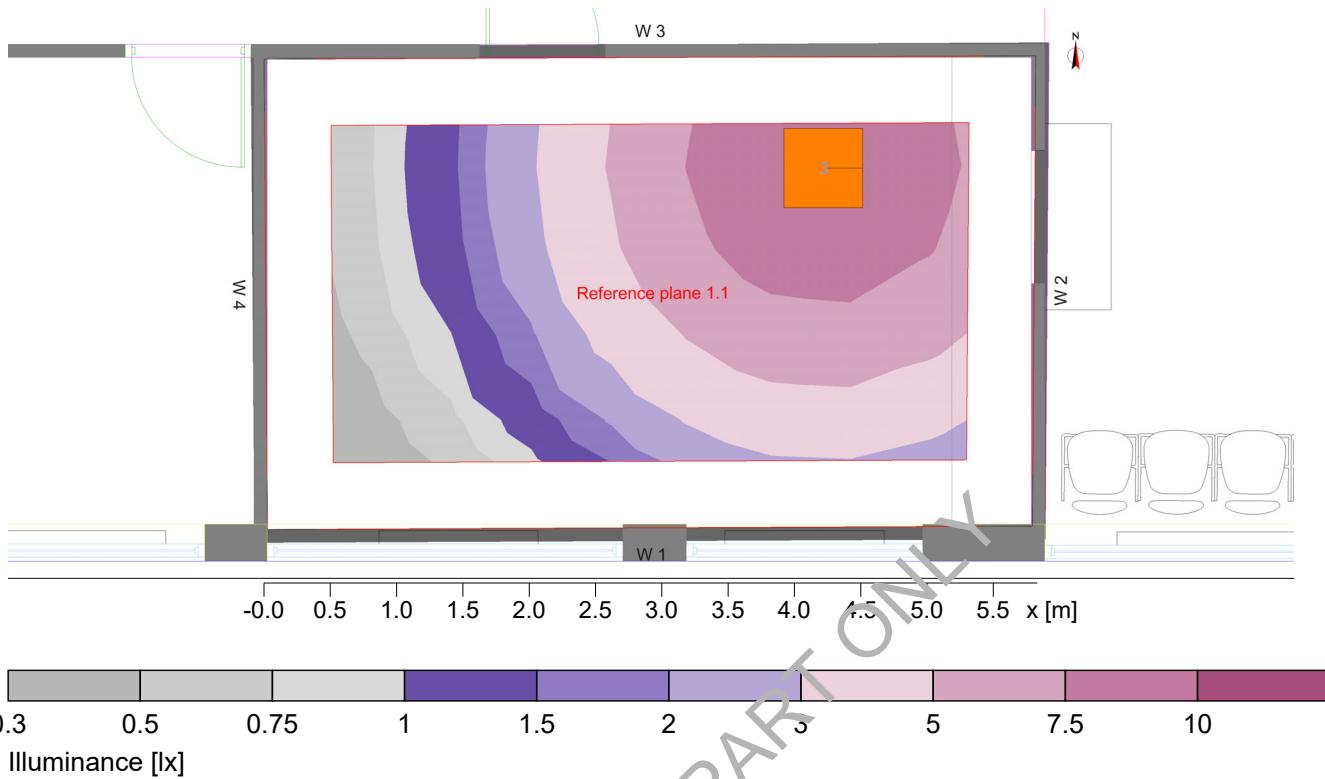
Object : Twickenham Learning Centre  
 Installation : Lighting Models  
 Project number :  
 Date : 25.04.2024

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## 25 Reception Office Em

### 25.2 Summary, Reception Office Em

#### 25.2.1 Result overview, Evaluation area 1



#### General

Calculation algorithm used

Direct component

Height of luminaire plane

2.60 m

Maintenance factor

0.80

Total luminous flux

185.00 lm

Total power

30.0 W

Total power per area (20.48 m<sup>2</sup>)

1.46 W/m<sup>2</sup> (34.14 W/m<sup>2</sup>/100lx)

#### Evaluation area 1

#### Reference plane 1.1

	Horizontal	cylindrical
$\bar{E}_m$	4.29 lx	1.71 lx
$E_{min}$	0.41 lx	0.12 lx
$E_{min}/\bar{E}_m (U_o)$	0.09	0.07
$E_{min}/E_{max} (U_d)$	0.04	
$E_z/E_h$		0.22
Position	0.00 m	1.60 m

#### Major surfaces

	$\bar{E}_m$	$U_o$
M 1.5 (Ceiling)	0 lx	---
M 1.1 (Wall)	0.61 lx	0.15
M 1.2 (Wall)	2.45 lx	0.20
M 1.3 (Wall)	3.67 lx	0.02
M 1.4 (Wall)	0.31 lx	0.45

Type No.\Make

Object : Twickenham Learning Centre  
Installation : Lighting Models  
Project number :  
Date : 25.04.2024



## 25 Reception Office Em

### 25.2 Summary, Reception Office Em

#### 25.2.1 Result overview, Evaluation area 1

Tamlite Lighting	
3	1 x
	Order No. : !PBL66300NW EM
	Luminaire name : MOD66/30/4K/EM
	Equipment : 1 x LED 30 W / 185 lm

DIRECT PART ONLY

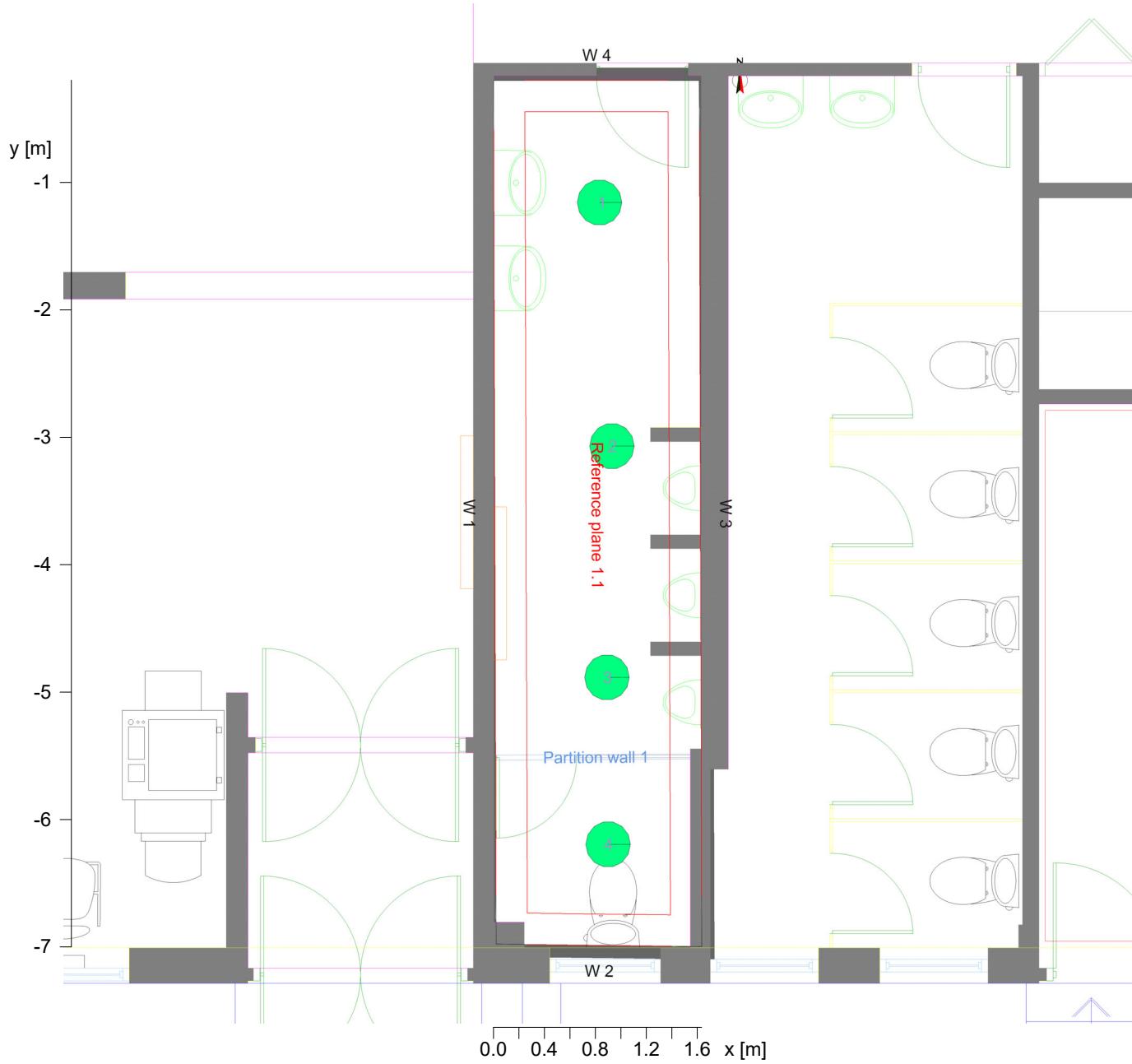
Object : Twickenham Learning Centre  
 Installation : Lighting Models  
 Project number :  
 Date : 25.04.2024

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## 26 Male Toilet

### 26.1 Description, Male Toilet

#### 26.1.1 Floor plan



Wall	x	y	Length	Reflectance
1	30.74 m	43.06 m	6.77 m	50.0 %
2	32.35 m	43.04 m	1.61 m	50.0 %
3	32.33 m	49.83 m	6.79 m	50.0 %
4	30.72 m	49.83 m	1.61 m	50.0 %
Floor				20.0 %
Ceiling				70.0 %
Room height		2.60 m		
Height of ref. plane		0.00 m		

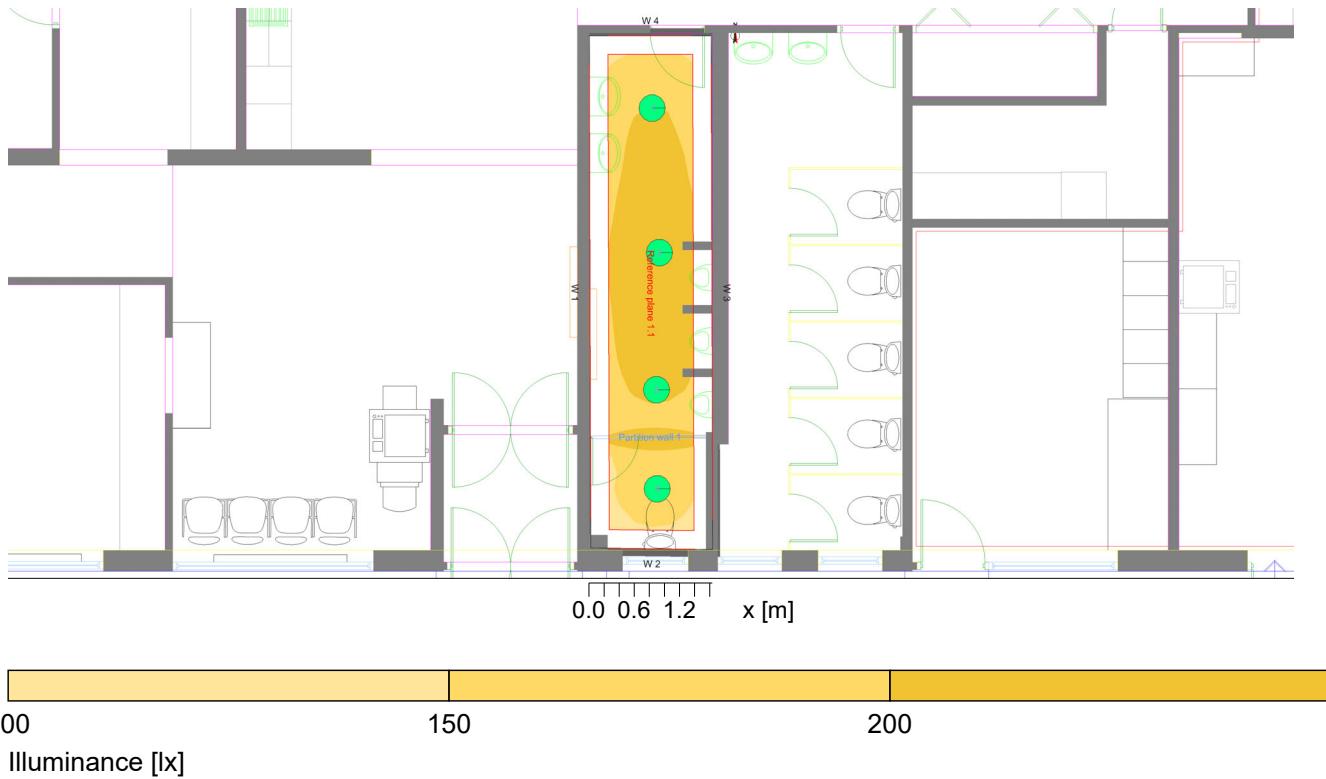
Object : Twickenham Learning Centre  
 Installation : Lighting Models  
 Project number :  
 Date : 25.04.2024

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## 26 Male Toilet

### 26.2 Summary, Male Toilet

#### 26.2.1 Result overview, Evaluation area 1



#### General

Calculation algorithm used	Average indirect fraction
Height of luminaire plane	2.10 m
Maintenance factor	0.80
Total luminous flux	7140.00 lm
Total power	84.0 W
Total power per area (10.95 m <sup>2</sup> )	7.67 W/m <sup>2</sup> (3.88 W/m <sup>2</sup> /100lx)

#### Evaluation area 1

#### Reference plane 1.1

$\bar{E}_m$	Horizontal	cylindrical
$E_{min}$	198 lx	221 lx
$E_{min}/\bar{E}_m (U_o)$	139 lx	126 lx
$E_{min}/E_{max} (U_d)$	0.70	0.57
$E_z/E_h$	0.56	0.37
Position	0.00 m	1.60 m

#### Major surfaces

M	$\bar{E}_m$	$U_o$
M 1.5 (Ceiling)	64 lx	0.78
M 1.1 (Wall)	162 lx	0.38
M 1.2 (Wall)	161 lx	0.50
M 1.3 (Wall)	185 lx	0.51
M 1.4 (Wall)	149 lx	0.52

Type No.\Make

Object : Twickenham Learning Centre  
Installation : Lighting Models  
Project number :  
Date : 25.04.2024



## 26 Male Toilet

### 26.2 Summary, Male Toilet

#### 26.2.1 Result overview, Evaluation area 1

7 4 x **Spurlite Ltd**  
Order No. : !SDA21/840  
Luminaire name : Dawn 21w  
Equipment : 1 x LED 21 W / 1785 lm

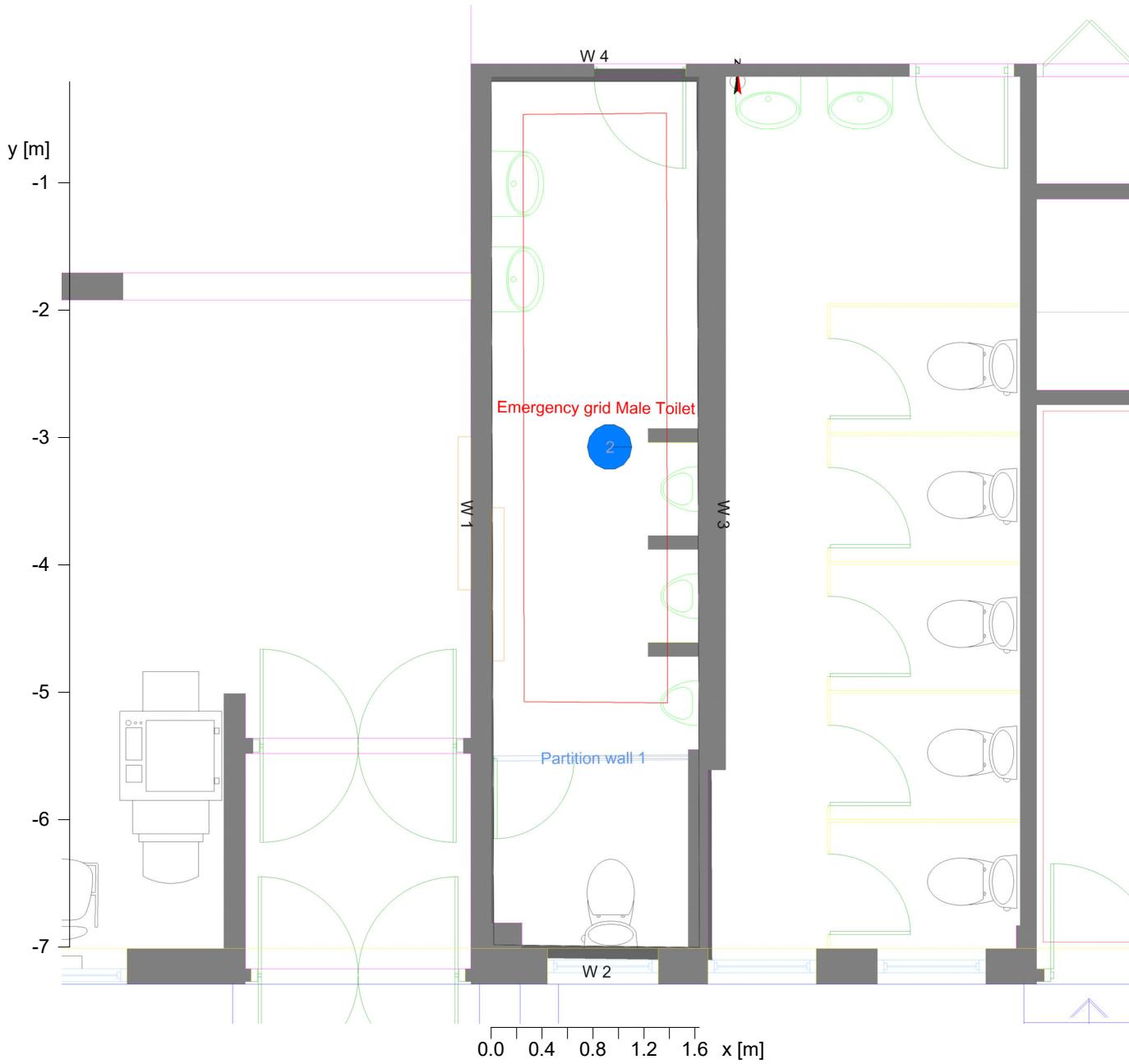
Object : Twickenham Learning Centre  
 Installation : Lighting Models  
 Project number :  
 Date : 25.04.2024

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## 27 Male Toilet(Copy of)

### 27.1 Description, Male Toilet(Copy of)

#### 27.1.1 Floor plan



Wall	x	y	Length	Reflectance
1	30.74 m	43.06 m	6.77 m	50.0 %
2	32.35 m	43.04 m	1.61 m	50.0 %
3	32.33 m	49.83 m	6.79 m	50.0 %
4	30.72 m	49.83 m	1.61 m	50.0 %
Floor				20.0 %
Ceiling				70.0 %
Room height		2.60 m		
Height of ref. plane		---		

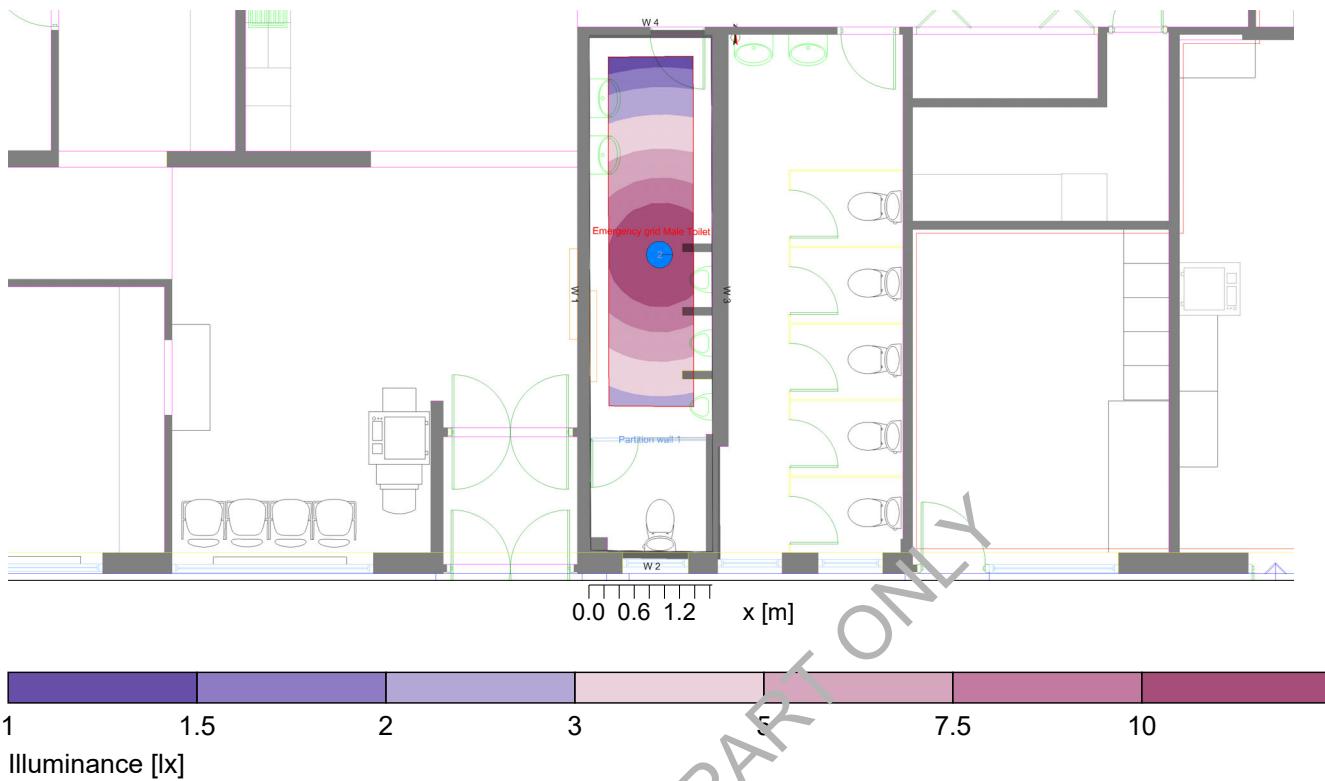
Object : Twickenham Learning Centre  
 Installation : Lighting Models  
 Project number :  
 Date : 25.04.2024

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## 27 Male Toilet(Copy of)

### 27.2 Summary, Male Toilet(Copy of)

#### 27.2.1 Result overview, Emergency grid Male Toilet



#### General

Calculation algorithm used

Direct component

Height of evaluation surface

0.75 m

Height of luminaire plane

2.60 m

Maintenance factor

0.80

Total luminous flux

176 lm

Total power

21 W

Total power per area (10.95 m<sup>2</sup>)

1.92 W/m<sup>2</sup>

#### Illuminance

Average illuminance

$\bar{E}_m$

6.7 lx

Minimum illuminance

$E_{min}$

1.3 lx

Maximum illuminance

$E_{max}$

13.2 lx

Uniformity  $U_o$

$E_{min}/\bar{E}_m$

1:5.03 (0.2)

Diversity  $U_d$

$E_{min}/E_{max}$

1:9.96 (0.1)

#### Type No.\Make

8 1 x

**Spurlite Ltd**

Order No. : !ISDA21/840 EM

Luminaire name : Dawn 21w EM

Equipment : 1 x LED 21 W / 176 lm



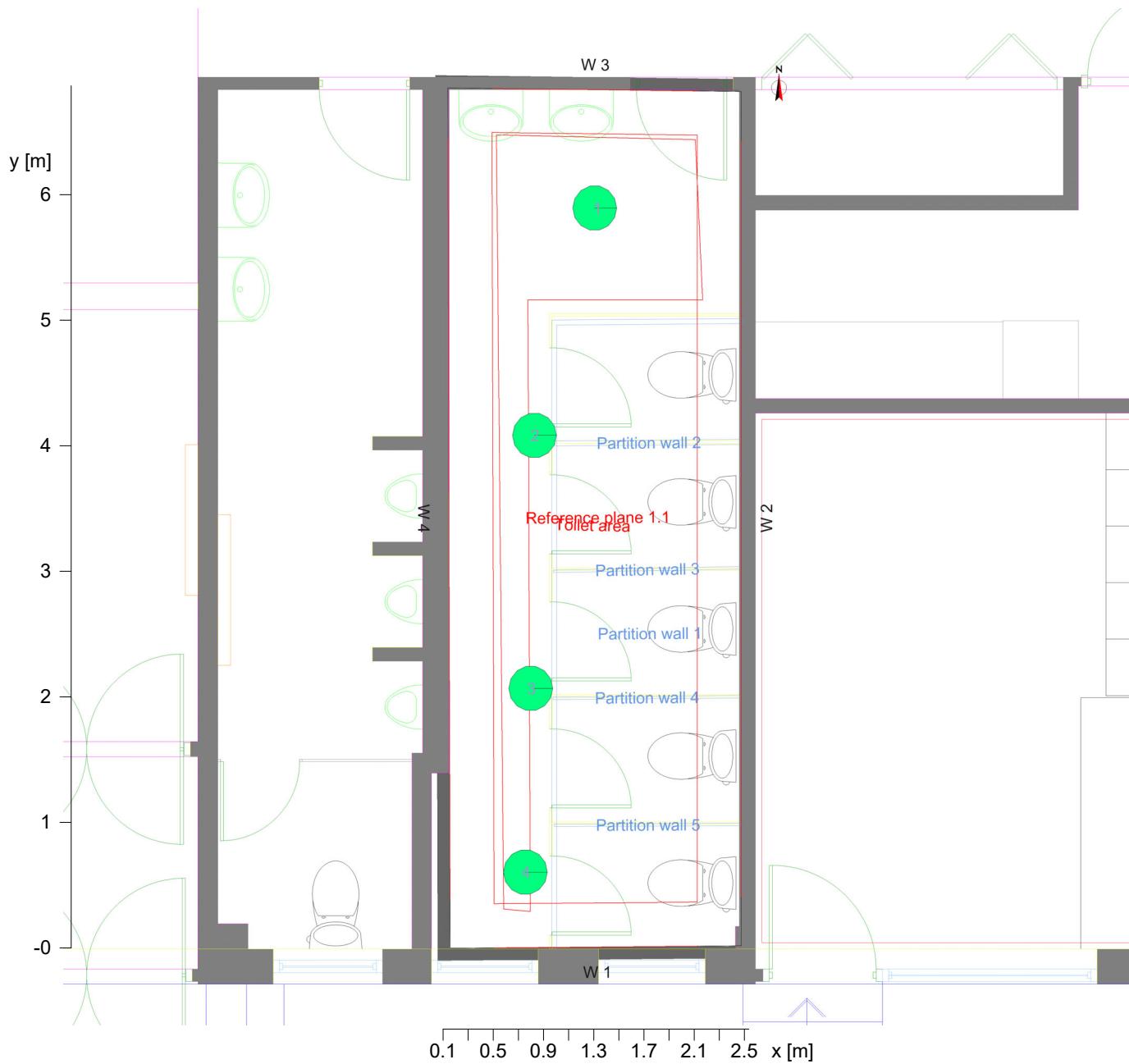
Object : Twickenham Learning Centre  
 Installation : Lighting Models  
 Project number :  
 Date : 25.04.2024

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## 28 Female W/C

### 28.1 Description, Female W/C

#### 28.1.1 Floor plan



Wall	<i>x</i>	<i>y</i>	Length	Reflectance
1	34.89 m	43.05 m	2.32 m	50.0 %
2	34.89 m	49.85 m	6.80 m	50.0 %
3	32.55 m	49.88 m	2.34 m	50.0 %
4	32.57 m	43.04 m	6.85 m	50.0 %
Floor				20.0 %
Ceiling				70.0 %
Room height		2.60 m		
Height of ref. plane		0.00 m		

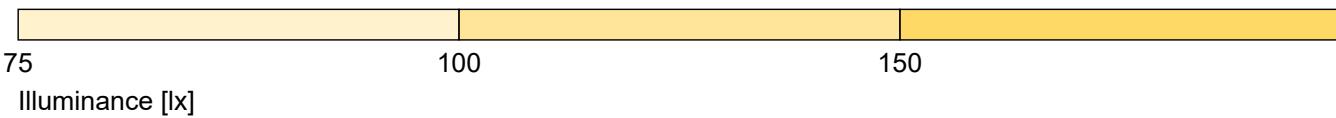
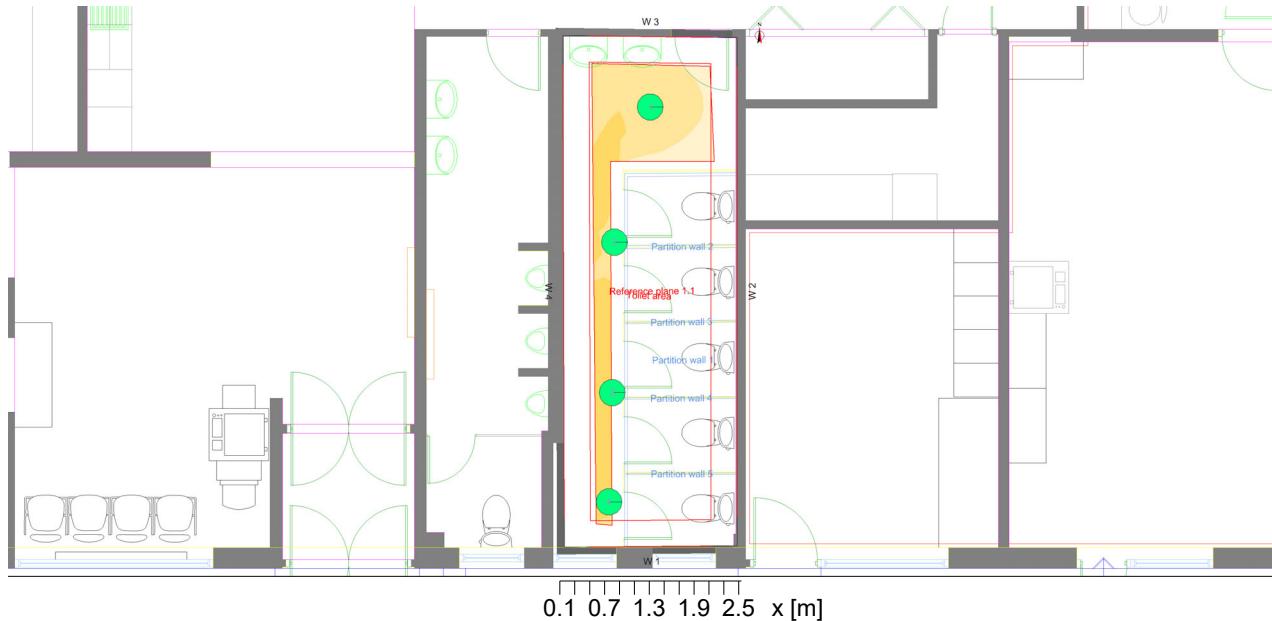
Object : Twickenham Learning Centre  
 Installation : Lighting Models  
 Project number :  
 Date : 25.04.2024

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## 28 Female W/C

### 28.2 Summary, Female W/C

#### 28.2.1 Result overview, Toilet area



#### General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
Height of luminaire plane	2.60 m
Maintenance factor	0.80
Total luminous flux	7140 lm
Total power	84 W
Total power per area (15.88 m <sup>2</sup> )	5.29 W/m <sup>2</sup>

#### Illuminance

Average illuminance	$\bar{E}_m$	134 lx
Minimum illuminance	$E_{min}$	84 lx
Maximum illuminance	$E_{max}$	179 lx
Uniformity $U_o$	$E_{min}/\bar{E}_m$	1:1.59 (0.63)
Diversity $U_d$	$E_{min}/E_{max}$	1:2.13 (0.47)

#### Type No.\Make

Spurlite Ltd	
7	4 x
Order No.	: ISDA21/840
Luminaire name	: Dawn 21w
Equipment	: 1 x LED 21 W / 1785 lm

## 29 Female W/C Em

### 29.1 Description, Female W/C Em

#### 29.1.1 Floor plan



Wall	x	y	Length	Reflectance
1	34.89 m	43.05 m	2.32 m	50.0 %
2	34.89 m	49.85 m	6.80 m	50.0 %
3	32.55 m	49.88 m	2.34 m	50.0 %
4	32.57 m	43.04 m	6.85 m	50.0 %
Floor				20.0 %
Ceiling				70.0 %
Room height	2.60 m			
Height of ref. plane	0.00 m			

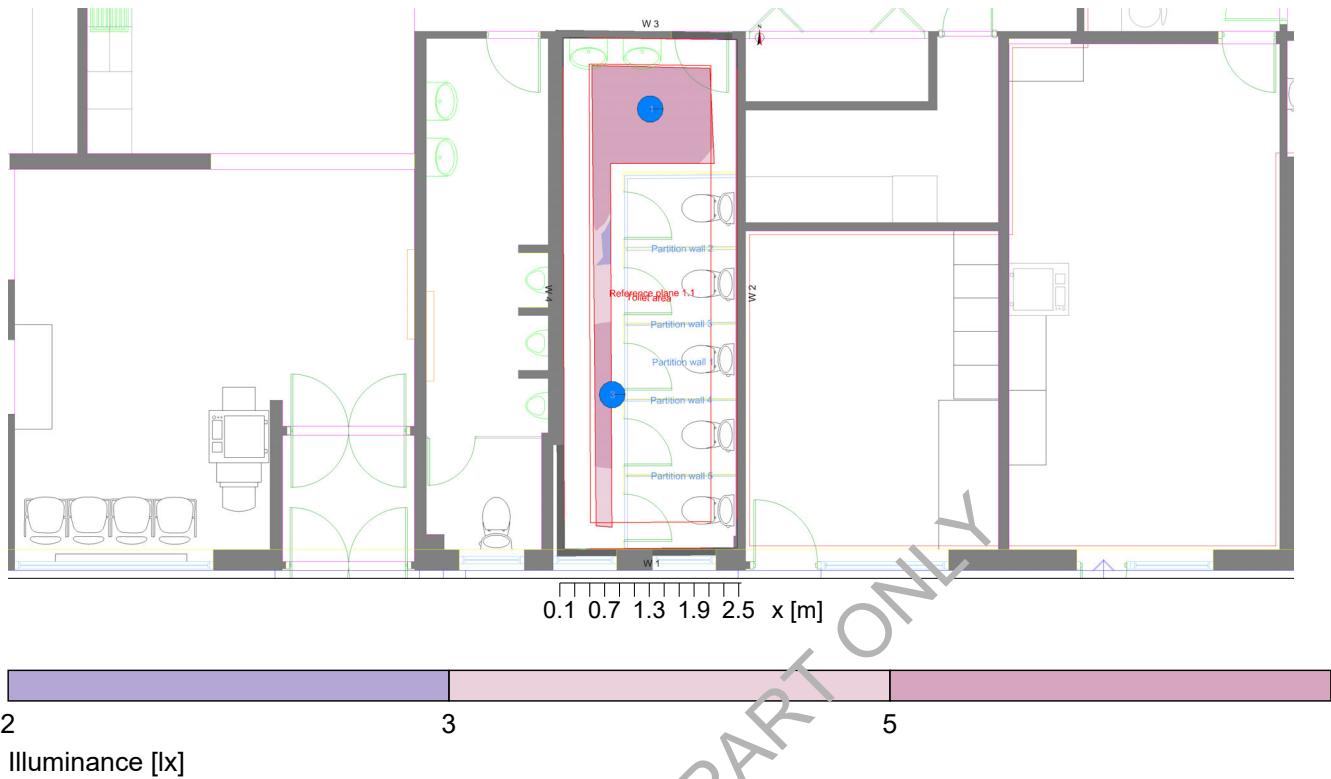
Object : Twickenham Learning Centre  
 Installation : Lighting Models  
 Project number :  
 Date : 25.04.2024

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## 29 Female W/C Em

### 29.2 Summary, Female W/C Em

#### 29.2.1 Result overview, Toilet area



#### General

Calculation algorithm used

Direct component

Height of evaluation surface

0.00 m

Height of luminaire plane

2.60 m

Maintenance factor

0.80

Total luminous flux

352 lm

Total power

42 W

Total power per area (15.88 m<sup>2</sup>)

2.64 W/m<sup>2</sup>

#### Illuminance

Average illuminance

$\bar{E}_m$

5.73 lx

Minimum illuminance

$E_{min}$

2.34 lx

Maximum illuminance

$E_{max}$

6.93 lx

Uniformity  $U_o$

$E_{min}/\bar{E}_m$

1:2.45 (0.41)

Diversity  $U_d$

$E_{min}/E_{max}$

1:2.96 (0.34)

#### Type No.\Make

8 2 x

**Spurlite Ltd**

Order No. : ISDA21/840 EM

Luminaire name : Dawn 21w EM

Equipment : 1 x LED 21 W / 176 lm

