

Co-Op Cuckfield Whitemans Green

Installation :

Project number :
Customer : Greene King
Processed by : HSR
Date : 18.06.2025

Project description:
Maintenance Factor 0.80

The nominal values shown in this report are the result of precision calculations, based upon precisely positioned luminaires in a fixed relationship to each other and to the area under examination. In practice the values may vary due to tolerances on luminaires, luminaire positioning, reflection properties and electrical supply.

EMERGENCY LIGHTING NOTES:

- Locations of fire fighting equipments/call points _FAP taken from the CAD drawing (unless survey provided). All points of emphasis (POE) mounting heights and their sizes have been assumed. Fire Extinguisher MH (base) @ 0.3m and MCP @ 1.1m
- Obstructions not considered in the POE lighting levels calculations.
- All emergency downlighters to be orientated as indicated on the drawing with arrows.
- All Emergency exit signs to be suspended/mounted between 2m-2.5mtrs.
- It is responsibility of the contractor to check all POE locations identified during lighting calculations and to notify Signify of any changes or missed locations.

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.

LIGHTING DESIGN - INFORMATION REQUIRED

Certain assumptions may be made during the lighting design process when required information is unavailable. The contractor's primary responsibility is to review these assumptions, confirm their accuracy, and provide the necessary details to ensure that the final lighting drawings and bill of materials are precise and meet project requirements.

Contractor's Responsibilities:

The contractor must review and supply the following information to support an accurate and effective lighting design:

- **Ceiling Heights:** Confirm all ceiling heights.
- **Ceiling Types:** Verify the type of ceiling (e.g., suspended T-Bar, plasterboard, or solid slab).
- **Obstruction Heights:** If present, confirm toilet cubicle heights. (Full height to the ceiling or not).
- **Critical Element Locations:** Provide precise locations for fire call points, fire alarm panels, fire extinguishers, distribution boards, and first aid signs.
- **Fire Escape Routes:** Define all fire escape routes, including exterior emergency pathways.
- **Fire Strategy:** Submit a comprehensive fire strategy drawing.
- **Emergency Signage:** Review and approve the proposed positions and legends for emergency escape signs.
- **Exterior Plant Locations:** Specify the locations of exterior plant equipment.
- **Critical Lighting Requirements:** Identify critical equipment or tasks requiring enhanced emergency lighting coverage.

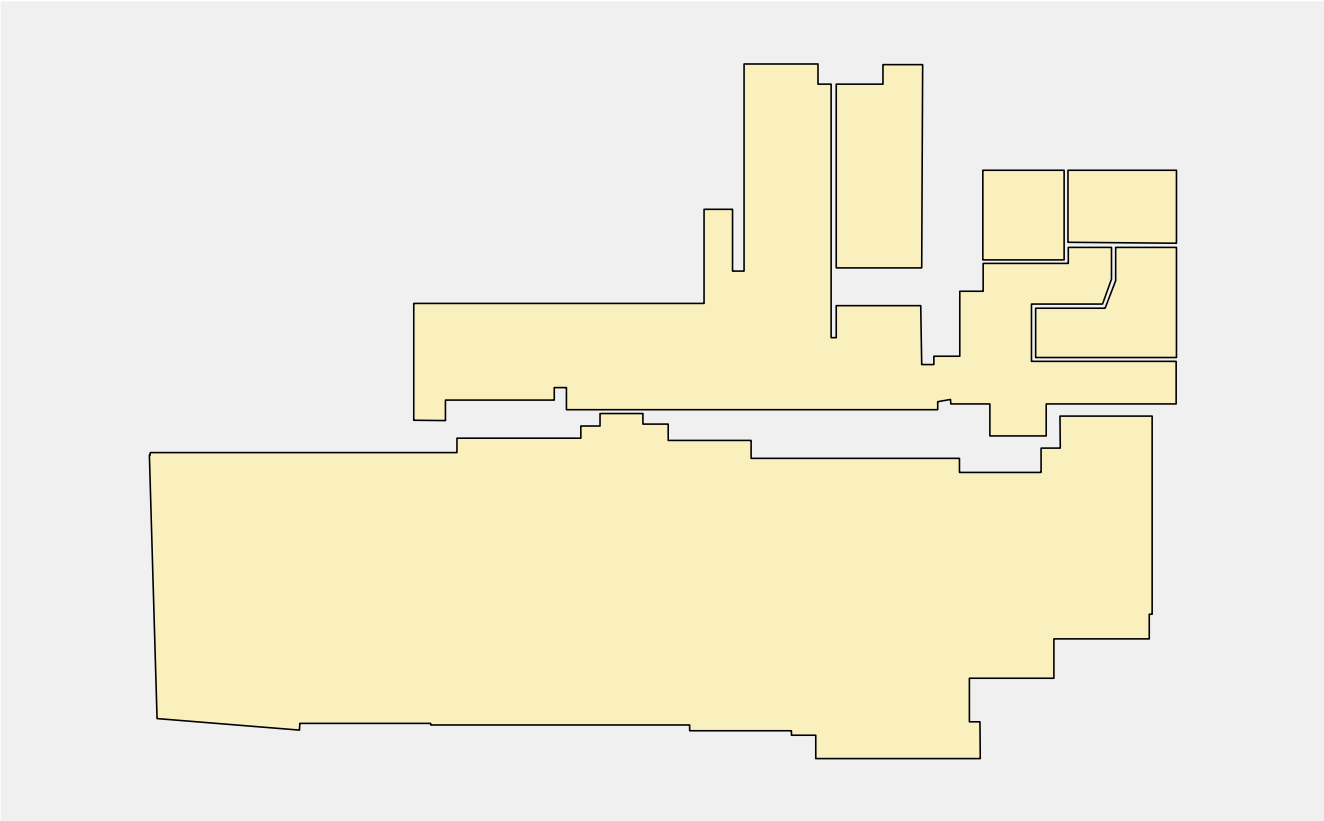
By meeting these responsibilities, the contractor plays a crucial role in ensuring the lighting design is complete, accurate, and compliant with standards and project requirements. Failure to provide the required information may compromise the effectiveness and compliance of the final design.

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Summary, Floor 1

.1 Floor overview



Number of rooms	6	
Total area	251.0 m²	Calculated
Total volume	637.2 m³	
Number of luminaires	77	
Total luminous flux	268000 lm	
Total power	1771 W	
Total power per area	7.07 W/m²	

Parts list

Type No.\Make

Philips Lighting		
1	20 x	Order No. : !CoreLineTrunking LL234X 90S/840 1x PSD WB
		Luminaire name : A1/3.4/WB
		Equipment : 1 x LED90S/840 55 W / 9000 lm
2	4 x	Order No. : !CoreLineTrunking LL217X LED45S/840 PSD WB.
		Luminaire name : A2/1.7/WB
		Equipment : 1 x LED45S/840 27.5 W / 4500 lm
3	13 x	Order No. : !BN126C LED41S/840 PSD L1200
		Luminaire name : A1D
		Equipment : 1 x LED41S/840 34 W / 4100 lm

Object : Co-Op Cuckfield Whitemans Green
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Summary, Floor 1

.1 Floor overview

5	2 x		Order No. : !WT120C G2 L1200 1 xLED40S/840 Luminaire name : B3D Equipment : 1 x LED40S/840 28.5 W / 4000 lm	
6	2 x		Order No. : !RC136B PSD W60L60 1 x31S_37S_43S/840 OC Luminaire name : B12D Equipment : 1 x 31S_37S_43S/840 22 W / 3100 lm	
25	1 x		Order No. : !BN126C LED25S/840 PSU L1200 Luminaire name : A3D Equipment : 1 x LED25S/840 18 W / 2500 lm	
LIAL Eulumdat				
7	3E x		Order No. : !SM BKD LED9S/840 PSD L370 NM3 ELD Luminaire name : B6D Equipment : 1 x OLP 2 EMERGENCY 4.7 W / 590 lm (0%) Emergency : 590 lm	-- Emergency Lighting --
9	5E x		Order No. : !919013004995 PROF REC SPOT LED2S OA NM3 ELD IP20 Luminaire name : E4D OA Equipment : 1 x 2 W / 240 lm (0%) Emergency : 240 lm	-- Emergency Light
10	5E x		Order No. : !919013004995 PROF REC SPOT LED2S CO NM3 ELD IP20 Luminaire name : E4D COR Equipment : 1 x 2 W / 222 lm (0%) Emergency : 222 lm	-- Emergency Light
11	1E x		Order No. : !919013004997 PROF SM SPOT LED4S OA NM3 ELD IP65 Luminaire name : E9D-H OA Equipment : 1 x 3 W / 443 lm (0%) Emergency : 443 lm	-- Emergency Lightin
12	1E x		Order No. : !919013004997 PROF SM SPOT LED4S CO NM3 ELD IP65 Luminaire name : E9D-H COR Equipment : 1 x 3 W / 438 lm (0%) Emergency : 438 lm	-- Emergency Lightin
15	4E x		Order No. : !919013004998 PROF SM BKD LED2S M3 ELD IP65 Luminaire name : ED6 Equipment : 1 x 2 W / 223 lm (0%) Emergency : 223 lm	-- Emergency Lighting --
16	2 x		Order No. : !EM WL EXIT SIGN 30M M3 ELD ISO UP Luminaire name : E8D-U Equipment : 1 x PROF EM WL EXIT SIGN 30M M3 ELD ISO UP / 50 lm (0%) Emergency : 50 lm	-- Emergency Lighting --
17	4 x		Order No. : ! EM BLADE SIGN WLCM 30M M3 ELD UP Luminaire name : E15D-U Equipment : 1 x 1 W / 19 lm (0%) Emergency : 19 lm	-- Emergency Lighting --

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Summary, Floor 1

.1 Floor overview

18 7 x



Order No. : !CoreLineTrunking Starter Kit
 Luminaire name : ST
 Equipment : 1 x 0.5 W / 0.001 lm (0%)
 Emergency : 0.001 lm

-- Emergency Lighting --

19 3E x



Order No. : !919013004999 PROF SM HO BKD LED120 850 NM3 ELD IP65
 Luminaire name : B6D-120
 Equipment : 1 x 7 W / 1169 lm (0%)
 Emergency : 1169 lm

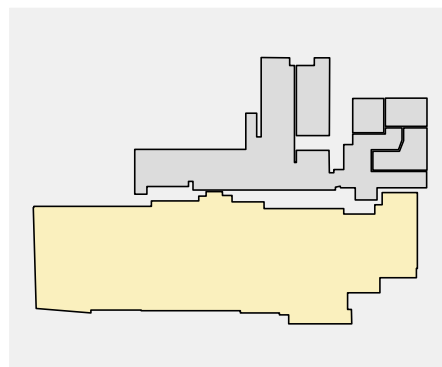
-- Emergency Li

Rooms

Sales Floor

47 x Luminaires

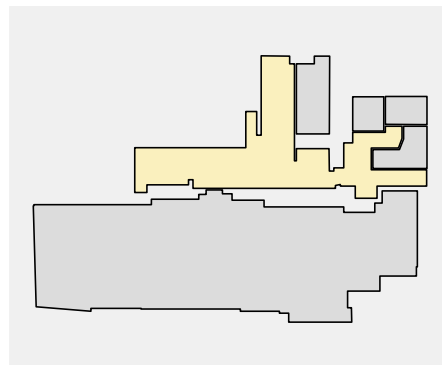
Floor area 164.7 m²
 Wall area (without windows) 178.0 m²
 Window area 0.0 m²
 Volume 421.6 m³
 Total luminous flux 198000 lm
 Total power 1210 W
 Total power per area (165 m²) 7.35 W/m²
 $\bar{E}_m$ 1010 lx
 E_{min} 516 lx
 $E_{min}/\bar{E}_m (U_o)$ 0.51
 RUG <=18.1



Warehouse

20 x Luminaires

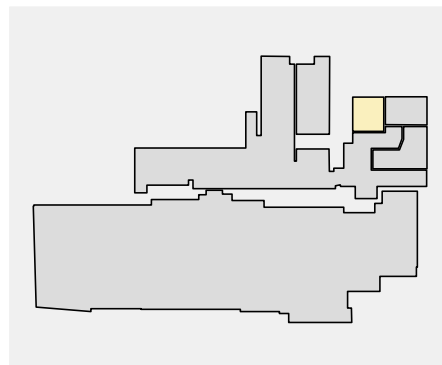
Floor area 60.1 m²
 Wall area (without windows) 184.3 m²
 Window area 0.0 m²
 Volume 153.7 m³
 Total luminous flux 49200 lm
 Total power 408 W
 Total power per area (60 m²) 6.79 W/m²
 $\bar{E}_m$ ---
 E_{min} ---
 $E_{min}/\bar{E}_m (U_o)$ ---
 RUG ---



WC

2 x Luminaires

Floor area 4.4 m²
 Wall area (without windows) 20.2 m²
 Window area 0.0 m²
 Volume 10.6 m³
 Total luminous flux 4100 lm
 Total power 34 W
 Total power per area (4 m²) 7.69 W/m²
 $\bar{E}_m$ 240 lx
 E_{min} 213 lx
 $E_{min}/\bar{E}_m (U_o)$ 0.89
 RUG 10.0



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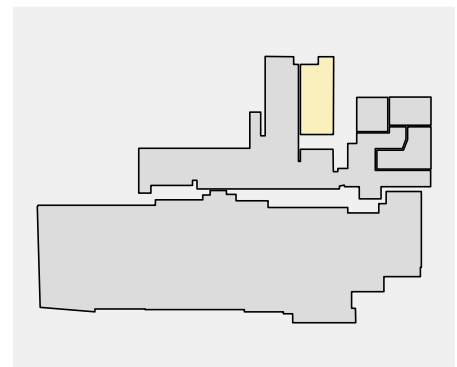
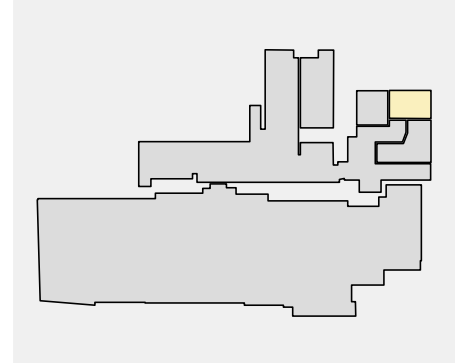
Summary, Floor 1

.1 Floor overview

Staff Room	2 x Luminaires
Floor area	4.8 m ²
Wall area (without windows)	21.4 m ²
Window area	0.0 m ²
Volume	11.5 m ³
Total luminous flux	2500 lm
Total power	18 W
Total power per area (5 m ²)	3.77 W/m ²
$\bar{E}_m$	210 lx
E_{min}	149 lx
$E_{min}/\bar{E}_m (U_o)$	0.71
RUG	<=18.7

Office	3 x Luminaires
Floor area	6.5 m ²
Wall area (without windows)	29.1 m ²
Window area	0.0 m ²
Volume	15.7 m ³
Total luminous flux	6200 lm
Total power	44 W
Total power per area (7 m ²)	6.73 W/m ²
$\bar{E}_m$	513 lx
E_{min}	262 lx
$E_{min}/\bar{E}_m (U_o)$	0.51
RUG	---

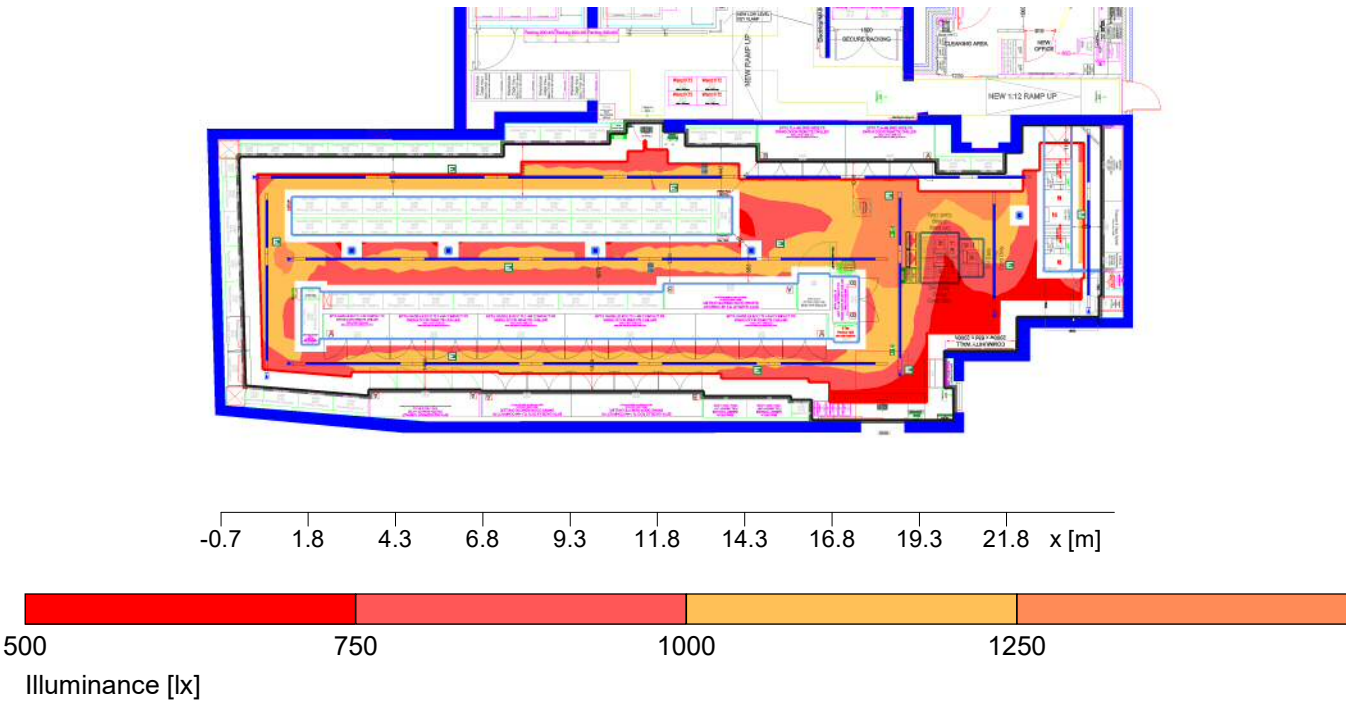
Bakery	3 x Luminaires
Floor area	10.0 m ²
Wall area (without windows)	34.2 m ²
Window area	0.0 m ²
Volume	24.1 m ³
Total luminous flux	8000 lm
Total power	57 W
Total power per area (10 m ²)	5.69 W/m ²
$\bar{E}_m$	465 lx
E_{min}	276 lx
$E_{min}/\bar{E}_m (U_o)$	0.59
RUG	<=22.0



1 Sales Floor

1.1 Summary, Sales Floor

1.1.1 Result overview, Evaluation area 1



General

Calculation algorithm used	Average indirect fraction
Maintenance factor	0.80
Total lamp luminous flux	198000.00 lm
Luminaire luminous flux	197932.25 lm
Total power	1210.0 W
Total power per area (164.70 m²)	7.35 W/m² (0.73 W/m²/100lx)

Evaluation area 1

Reference plane 1.1

$\bar{E}_m$	Horizontal	cylindrical
E_{min}	1010 lx	358 lx
$E_{min}/\bar{E}_m (U_o)$	516 lx	208 lx
$E_{min}/E_{max} (U_d)$	0.51	0.58
E_z/E_h	0.35	
Position	0.85 m	0.32
$R_{UG} (6.4H \ 12.0H)$	1.30 m	
Luminaire :		
(A1/3.4/WB, !CoreLineTrunking LL234X 90S/840 1x PSD WB)		
Hints:		
- At least one of the room dimensions has been limited to 12H.		

Major surfaces	$\bar{E}_m$	U_o
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1 Sales Floor

1.1 Summary, Sales Floor

1.1.1 Result overview, Evaluation area 1

Type No. Make

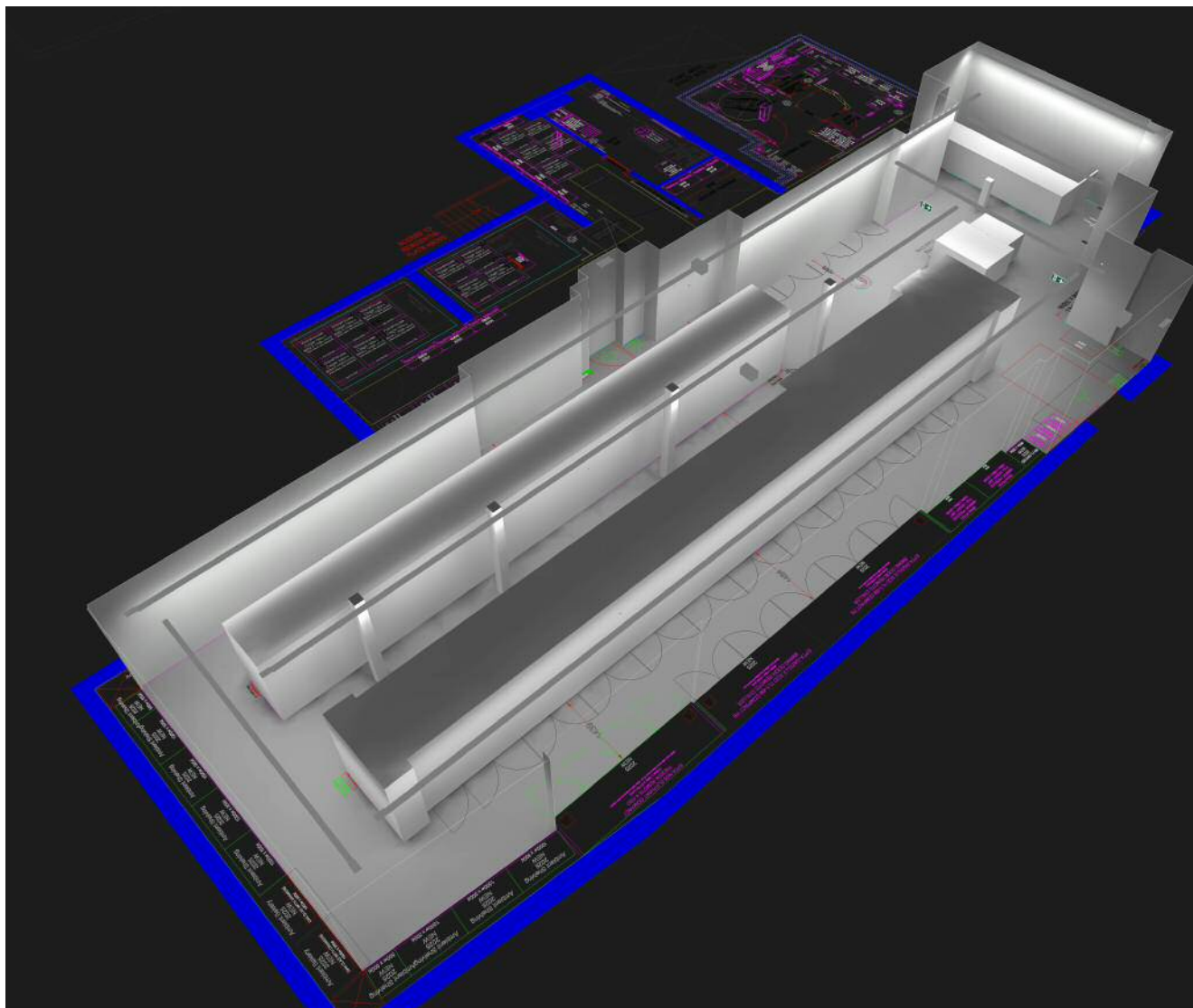
Philips Lighting			
1	20 x	Order No.	: !CoreLineTrunking LL234X 90S/840 1x PSD WB
		Luminaire name	: A1/3.4/WB
		Equipment	: 1 x LED90S/840 55 W / 9000 lm
2	4 x	Order No.	: !CoreLineTrunking LL217X LED45S/840 PSD WB.
		Luminaire name	: A2/1.7/WB
		Equipment	: 1 x LED45S/840 27.5 W / 4500 lm

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Object : Co-Op Cuckfield Whitemans Green
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1.2 Calculation results, Sales Floor

1.2.2 3D luminance, View 1

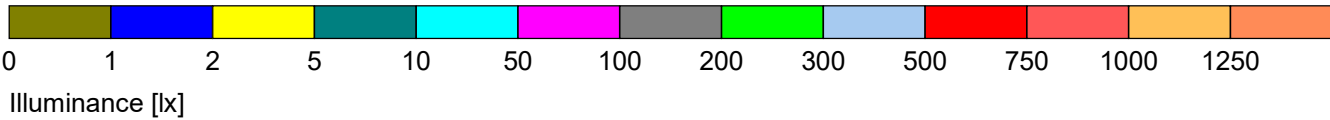
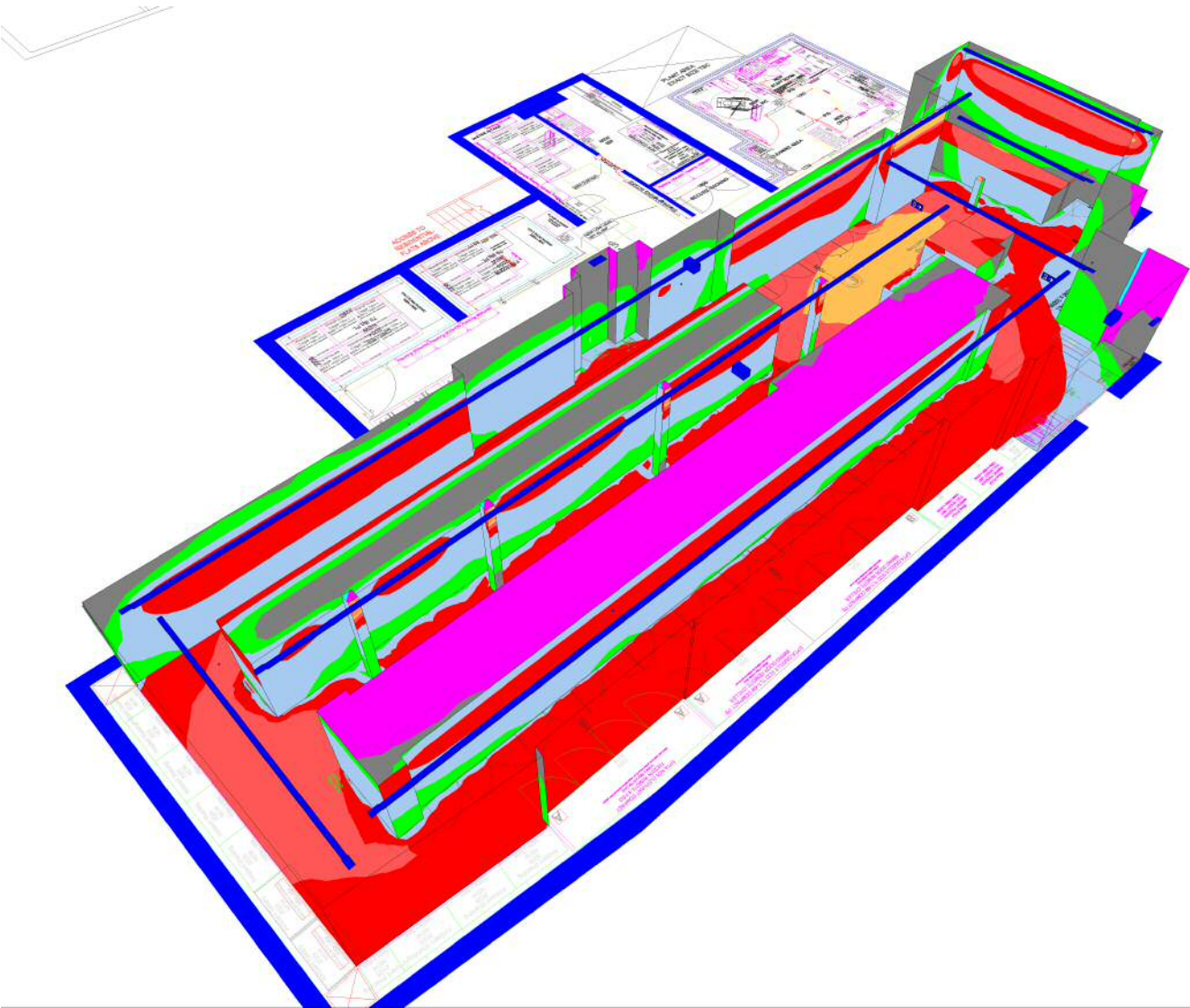


Luminance in the scene

Minimum: : 0 cd/m²
Maximum: : 311 cd/m²

1.2 Calculation results, Sales Floor

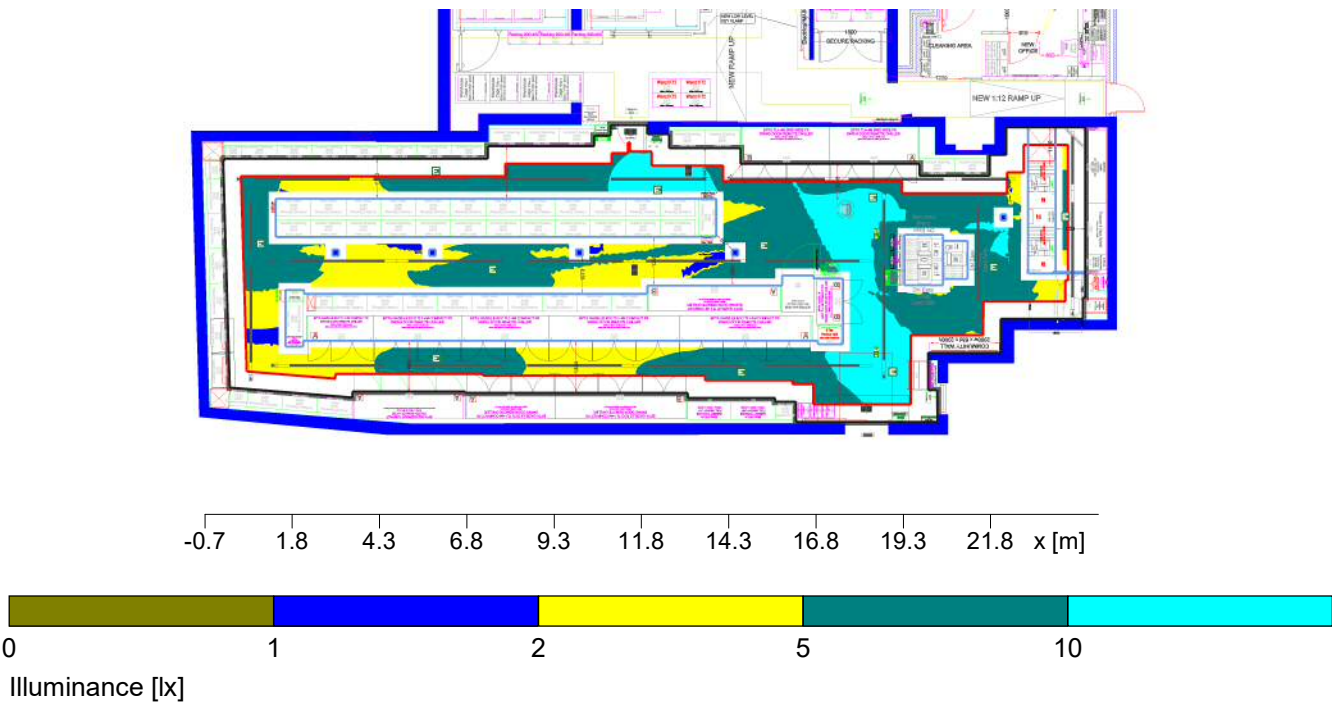
1.2.3 3D pseudo colours, View 1 (E)



1 Sales Floor

1.3 Summary, Sales Floor

1.3.1.1 Result overview (emergency lighting)



General

Calculation algorithm used : Direct component
Maintenance factor : 0.8
Height (phot centre) -variable-
Maximum I : 630 cd

Anti panic area:

No.	Surface Emin [lx]	Emax [lx]	Ud
Anti panic area 1.1			
Calculation field: 23.83m x 8.36m (47 x 16 pts), Height = 0.00m			
1	0.66 lx >= 0.5 lx	16.93 lx	1: 25.68 >= 1 : 40



Places to highlight

No.	Surface Emin [lx]	Emax [lx]
1 Call Point Location 1		
Calculation field: 0.2m x 0.1m (2 x 2 pts)		
1	18.53 lx >= 5 lx	25.43 lx



1 Sales Floor

1.3 Summary, Sales Floor

1.3.1.1 Result overview (emergency lighting)

2 FAP

Calculation field: 0.41m x 0.15m (2 x 2 pts)

2 21.67 lx 38.63 lx
>= 15 lx



3 Fire extinguishers Location 1

Calculation field: 0.34m x 0.4m (2 x 2 pts)

3 7.97 lx 13.78 lx
>= 5 lx



4 Call Point Location 2

Calculation field: 0.2m x 0.1m (2 x 2 pts)

4 13.85 lx 15.97 lx
>= 5 lx



5 Fire extinguishers Location 2

Calculation field: 0.31m x 0.4m (2 x 2 pts)

5 6.19 lx 9.36 lx
>= 5 lx



6 Digilock

Calculation field: 0.11m x 0.1m (2 x 2 pts)

6 8.71 lx 9.92 lx
>= 5 lx



Type No.\Make

9	4E x		Order No. : !919013004995 PROF REC SPOT LED2S OA NM3 ELD IP20 Luminaire name : E4D OA Equipment : 1 x 2 W / 240 lm (0%) Emergency : 240 lm	-- Emergency Light
10	5E x		Order No. : !919013004995 PROF REC SPOT LED2S CO NM3 ELD IP20 Luminaire name : E4D COR Equipment : 1 x 2 W / 222 lm (0%) Emergency : 222 lm	-- Emergency Light
11	1E x		Order No. : !919013004997 PROF SM SPOT LED4S OA NM3 ELD IP65 Luminaire name : E9D-H OA Equipment : 1 x 3 W / 443 lm (0%) Emergency : 443 lm	-- Emergency Lightin
12	1E x		Order No. : !919013004997 PROF SM SPOT LED4S CO NM3 ELD IP65 Luminaire name : E9D-H COR Equipment : 1 x 3 W / 438 lm (0%) Emergency : 438 lm	-- Emergency Lightin

1 Sales Floor

1.3 Summary, Sales Floor

1.3.1.1 Result overview (emergency lighting)

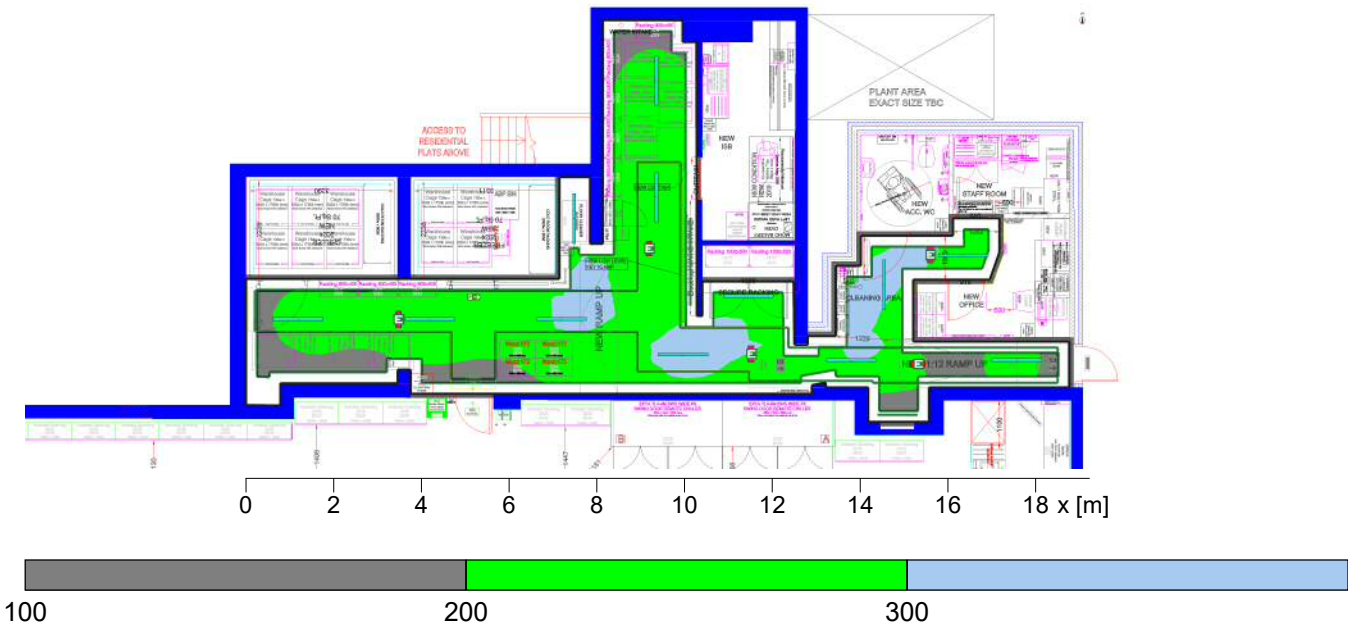
No.	Emergency signs not a Relux Member	: Product	-- Emergency Lighting --
2E x			



2 Warehouse

2.1 Summary, Warehouse

2.1.1 Result overview, Reference plane 1



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
Maintenance factor	0.80
Total luminous flux	49200 lm
Total power	408 W
Total power per area (60.06 m²)	6.79 W/m² (2.75 W/m²/100lx)

Illuminance

Average illuminance	$\bar{E}_m$	247 lx
Minimum illuminance	E_{min}	140 lx
Maximum illuminance	E_{max}	348 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	1:1.76 (0.57)
Diversity U_d	E_{min}/E_{max}	1:2.48 (0.4)

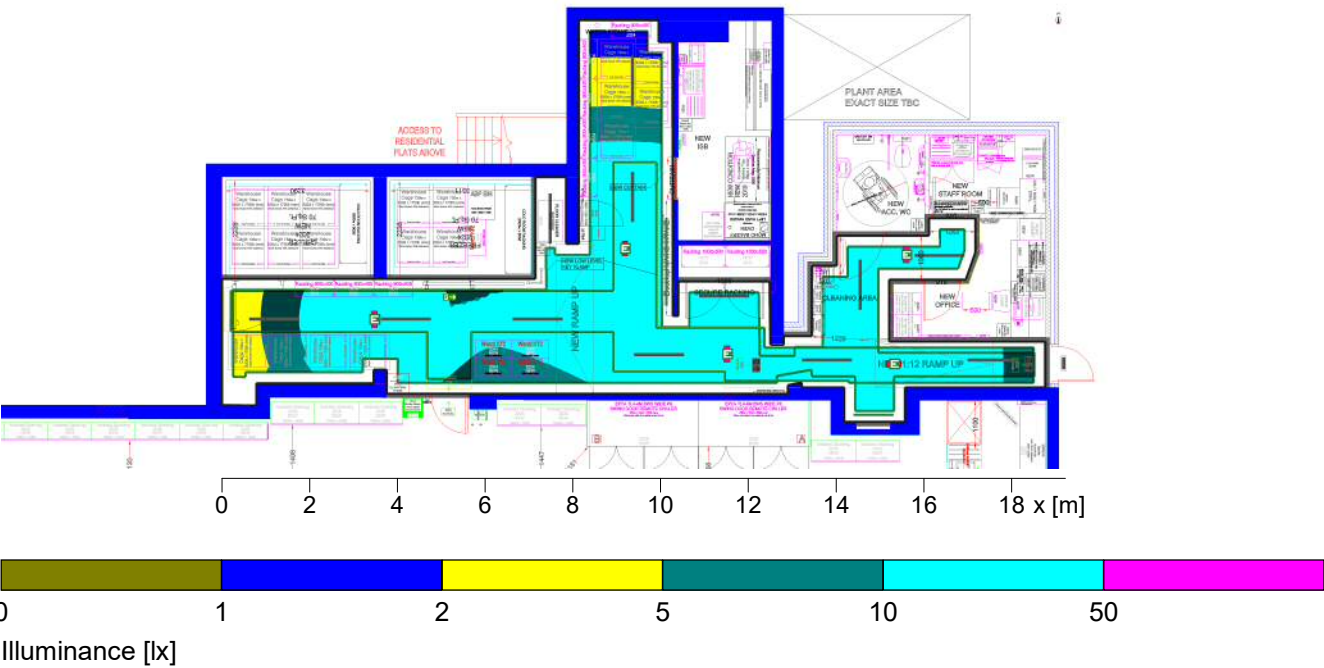
Type No.\Make

3 12 x Philips Lighting	
Order No.	: !BN126C LED41S/840 PSD L1200
Luminaire name	: A1D
Equipment	: 1 x LED41S/840 34 W / 4100 lm

2 Warehouse

2.2 Summary, Warehouse

2.2.1.1 Result overview (emergency lighting)

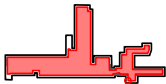


General

Calculation algorithm used : Direct component
Maintenance factor : 0.8
Height (phot centre) -variable-
Maximum I : 350 cd

Anti panic area:

No.	Surface Emin [lx]	Surface Emax [lx]	Ud
Anti panic area 2			
Calculation field: 18.27m x 8.61m (55 x 26 pts), Height = 0.00m			
1	1.26 lx	44.79 lx	1: 35.41
	>= 0.5 lx		>= 1 : 40



Anti panic area 3

Calculation field: 18.29m x 5.02m (71 x 19 pts), Height = 0.00m			
2	2.80 lx	44.92 lx	1: 16.04
	>= 1 lx		>= 1 : 40



Places to highlight

No.	Surface Emin [lx]	Surface Emax [lx]
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2 Warehouse

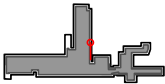
2.2 Summary, Warehouse

2.2.1.1 Result overview (emergency lighting)

1 DB1

Calculation field: 2m x 0.5m (3 x 3 pts)

1	18.19 lx	99.26 lx
	>= 15 lx	



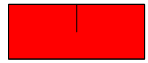
2 DB2

Calculation field: 0.9m x 0.5m (3 x 3 pts)

2	29.11 lx	79.33 lx
	>= 15 lx	



Type No. Make

		LIAL Eulumdat	
7	3E x	Order No.	: !SM BKD LED9S/840 PSD L370 NM3 ELD -- Emergency Lighting --
		Luminaire name	: B6D
		Equipment	: 1 x OLP 2 EMERGENCY 4.7 W / 590 lm (0%)
		Emergency	: 590 lm
19	2E x	Order No.	: !919013004999 PROF SM HO BKD LED120 850 NM3 ELD IP65 -- Emergency Li
		Luminaire name	: B6D-120
		Equipment	: 1 x 7 W / 1169 lm (0%)
		Emergency	: 1169 lm

No.	Emergency signs not a Relux Member
1E x	: Product -- Emergency Lighting --
	

2.2 Calculation results, Warehouse

2.2.2 Table, DB1 (E)



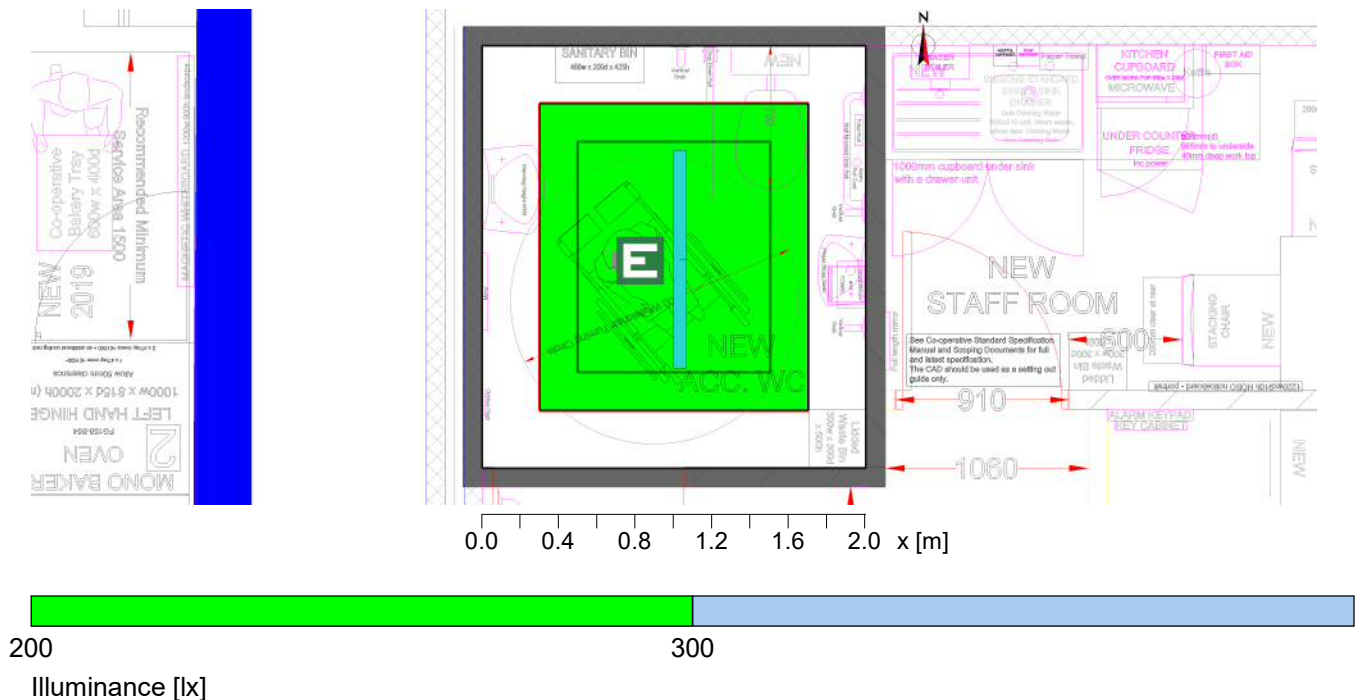
Required minimum illuminance	: 15 lx (lower values are highlighted in red)		
Minimum illuminance	Emin	: 29 lx (* 18 lx)	
Maximum illuminance	Emax	: 80 lx (* 99 lx)	
Diversity	Emin/Emax	: 1 : 2.77 (0.36) (Threshold value 1:40) (* 1:5.46)	
Calculation algorithm used	: Direct component		
Maintenance factor	: 0.8		

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3 WC

3.1 Summary, WC

3.1.1 Result overview, Evaluation area 1



General

Calculation algorithm used
 Height of luminaire plane
 Maintenance factor

Average indirect fraction
 2.40 m
 0.80

Total lamp luminous flux
 Luminaire luminous flux
 Total power
 Total power per area (4.42 m²)

4100.00 lm
 4099.03 lm
 34.0 W
 7.69 W/m² (3.21 W/m²/100lx)

Evaluation area 1

Reference plane 1.1

$\bar{E}_m$
 E_{min}
 $E_{min}/\bar{E}_m (U_o)$
 $E_{min}/E_{max} (U_d)$
 E_z/E_h
 Position
 $R_{UG} (1.7H \ 1.9H)$

Horizontal
 240 lx
 213 lx
 0.89
 0.81
 0.29
 0.45 m

Luminaire :
 (A1D, !BN126C LED41S/840 PSD L1200)
 Hints:

- Encountered room dimensions less than 2H. RUG value has been set to 10 as lower limit.

Major surfaces

$\bar{E}_m$

U_o

Object : Co-Op Cuckfield Whitemans Green
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3 WC

3.1 Summary, WC

3.1.1 Result overview, Evaluation area 1

Type No. Make

		Philips Lighting	
3	1 x	Order No.	: !BN126C LED41S/840 PSD L1200
		Luminaire name	: A1D
		Equipment	: 1 x LED41S/840 34 W / 4100 lm

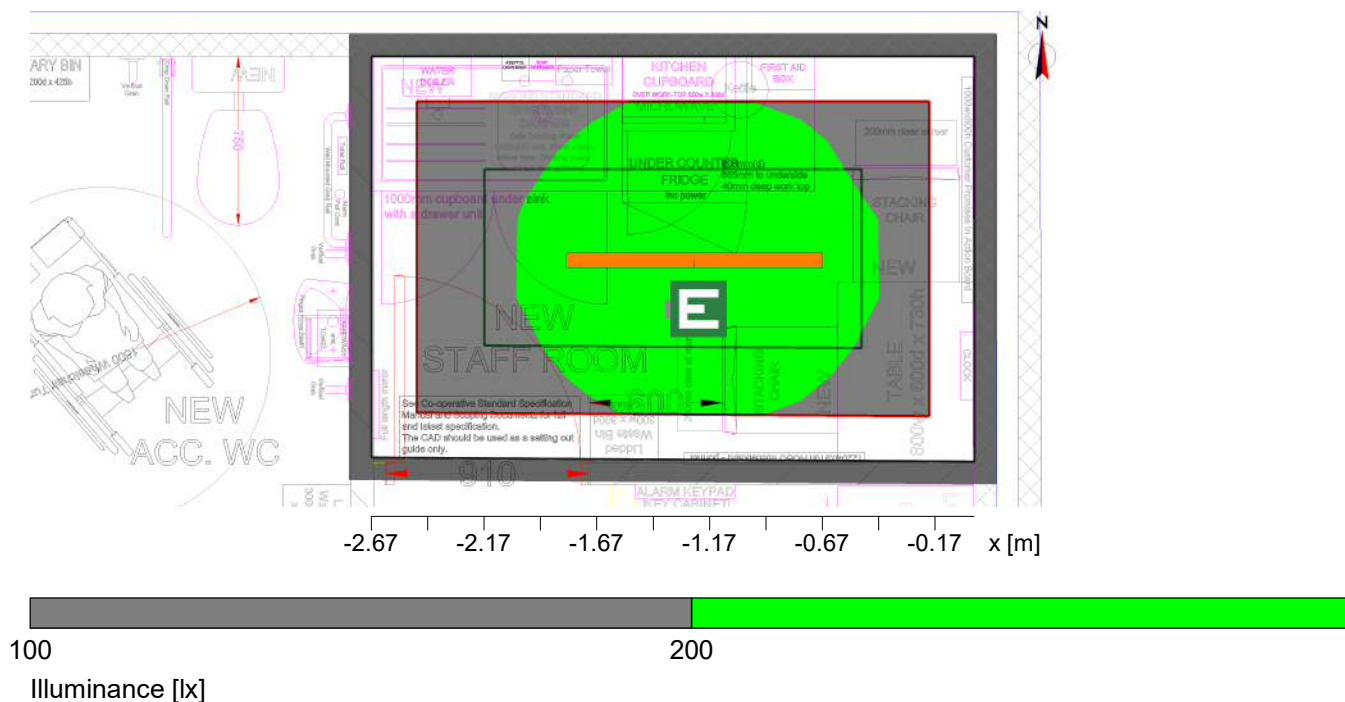
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4 Staff Room

4.1 Summary, Staff Room

4.1.1 Result overview, Evaluation area 1



General

Calculation algorithm used	Average indirect fraction
Height of luminaire plane	2.40 m
Maintenance factor	0.80
Total lamp luminous flux	2500.00 lm
Luminaire luminous flux	2499.47 lm
Total power	18.0 W
Total power per area (4.78 m ²)	3.77 W/m ² (1.79 W/m ² /100lx)

Evaluation area 1

Reference plane 1.1

$\bar{E}_m$	Horizontal	cylindrical
E_{min}	210 lx	93 lx
$E_{min}/\bar{E}_m (U_o)$	149 lx	83 lx
$E_{min}/E_{max} (U_d)$	0.71	0.89
E_z/E_h	0.56	0.32
Position	0.75 m	1.20 m
$R_{UG} (1.5H \ 2.3H)$	≤ 18.7	
Luminaire :		
(A3D, !BN126C LED25S/840 PSU L1200)		

Major surfaces

$\bar{E}_m$

U_o

Object : Co-Op Cuckfield Whitemans Green
Installation :
Project number :
Date : 18.06.2025



4 Staff Room

4.1 Summary, Staff Room

4.1.1 Result overview, Evaluation area 1

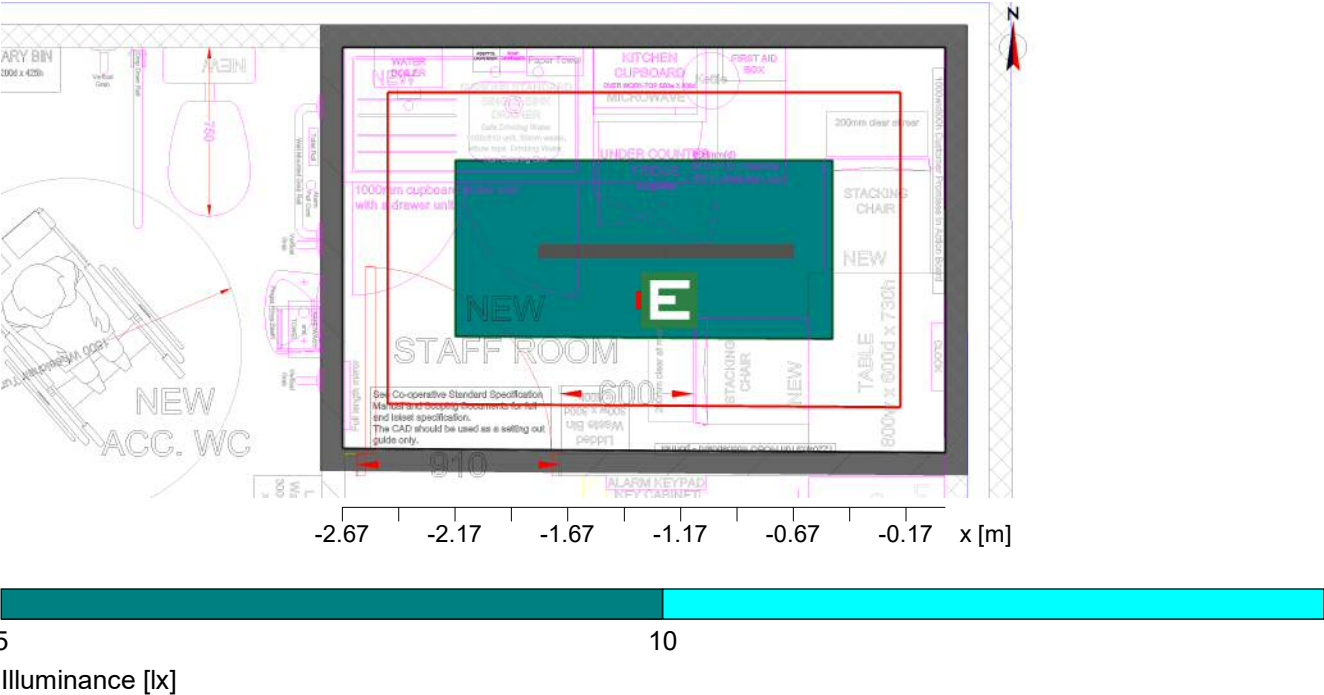
Type No. Make

Type	No.	Make
25	1 x	Philips Lighting
		Order No. : !BN126C LED25S/840 PSU L1200
		Luminaire name : A3D
		Equipment : 1 x LED25S/840 18 W / 2500 lm

4 Staff Room

4.2 Summary, Staff Room

4.2.1.1 Result overview (emergency lighting)

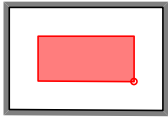


General

Calculation algorithm used : Direct component
Maintenance factor : 0.8
Height (phot. centre) : 2.40 m
Maximum I : 68 cd <= 500 cd

Anti panic area:

No.	Surface Emin [lx]	Emax [lx]	Ud
Anti panic area 1.1			
Calculation field: 0.79m x 1.67m (5 x 10 pts), Height = 0.00m			
1	5.51 lx	9.25 lx	1: 1.68
	>= 0.5 lx		>= 1 : 40



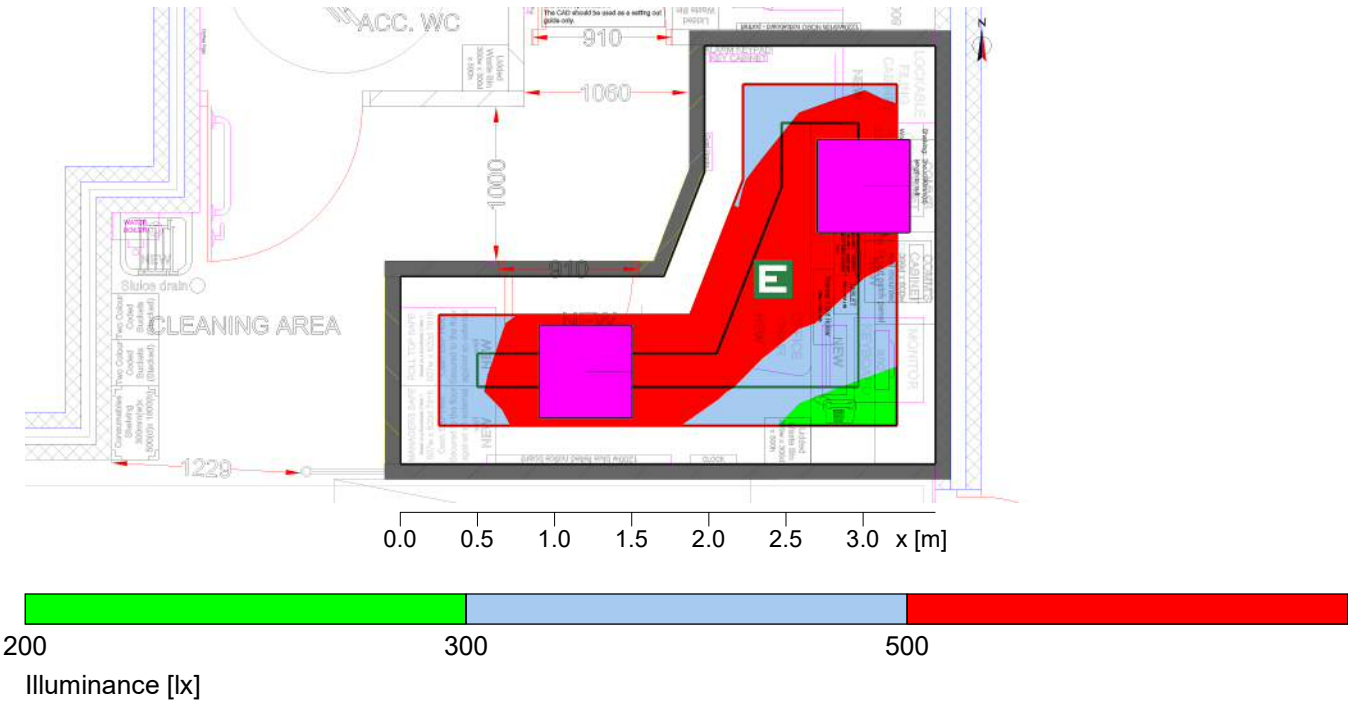
Type No.\Make

15	1E x	Order No.	: !919013004998 PROF SM BKD LED2S M3 ELD IP65	-- Emergency Lighting --
		Luminaire name	: ED6	
		Equipment	: 1 x 2 W / 223 lm (0%)	
		Emergency	: 223 lm	

5 Office

5.1 Summary, Office

5.1.1 Result overview, Evaluation area 1



General

Calculation algorithm used	Average indirect fraction
Height of luminaire plane	2.40 m
Maintenance factor	0.80
Total lamp luminous flux	6200.00 lm
Luminaire luminous flux	6186.21 lm
Total power	44.0 W
Total power per area (6.54 m²)	6.73 W/m² (1.31 W/m²/100lx)

Evaluation area 1

Reference plane 1.1

$\bar{E}_m$	Horizontal	cylindrical
E_{min}	513 lx	184 lx
$E_{min}/\bar{E}_m (U_o)$	262 lx	93 lx
$E_{min}/E_{max} (U_d)$	0.51	0.50
E_z/E_h	0.41	0.28
Position	0.75 m	1.20 m
$R_{UG} (--- ---)$	---	

Hints:
- Room dimensions deviate too much from a rectangular room.

Major surfaces

$\bar{E}_m$

U_o

Object : Co-Op Cuckfield Whitemans Green
Installation :
Project number :
Date : 18.06.2025



5 Office

5.1 Summary, Office

5.1.1 Result overview, Evaluation area 1

Type No. Make

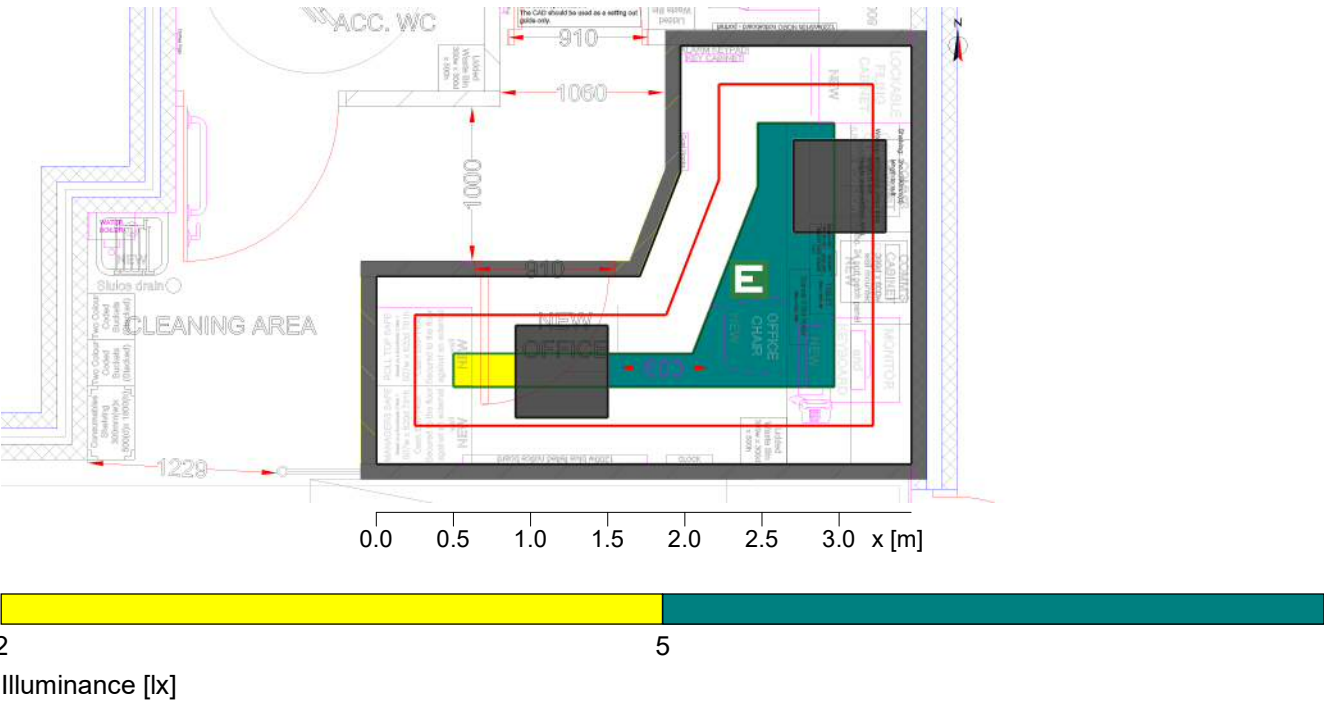
6	2 x	Philips Lighting	
		Order No.	: !RC136B PSD W60L60 1 x31S_37S_43S/840 OC
		Luminaire name	: B12D
		Equipment	: 1 x 31S_37S_43S/840 22 W / 3100 lm



5 Office

5.2 Summary, Office

5.2.1.1 Result overview (emergency lighting)

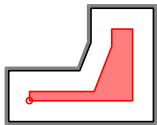


General

Calculation algorithm used : Direct component
Maintenance factor : 0.8
Height (phot centre) : 2.40 m
Maximum I : 59 cd <= 500 cd

Anti panic area:

No.	Surface Emin [lx]	Emax [lx]	Ud
Anti panic area 1.1			
Calculation field: 2.47m x 1.71m (15 x 10 pts), Height = 0.00m			
1	2.95 lx	7.78 lx	1: 2.64
	>= 0.5 lx		>= 1 : 40



Type No. Make

9	1E x	Order No.	: !919013004995 PROF REC SPOT LED2S OA NM3 ELD IP20	-- Emergency Light
		Luminaire name	: E4D OA	
		Equipment	: 1 x 2 W / 240 lm (0%)	
		Emergency	: 240 lm	

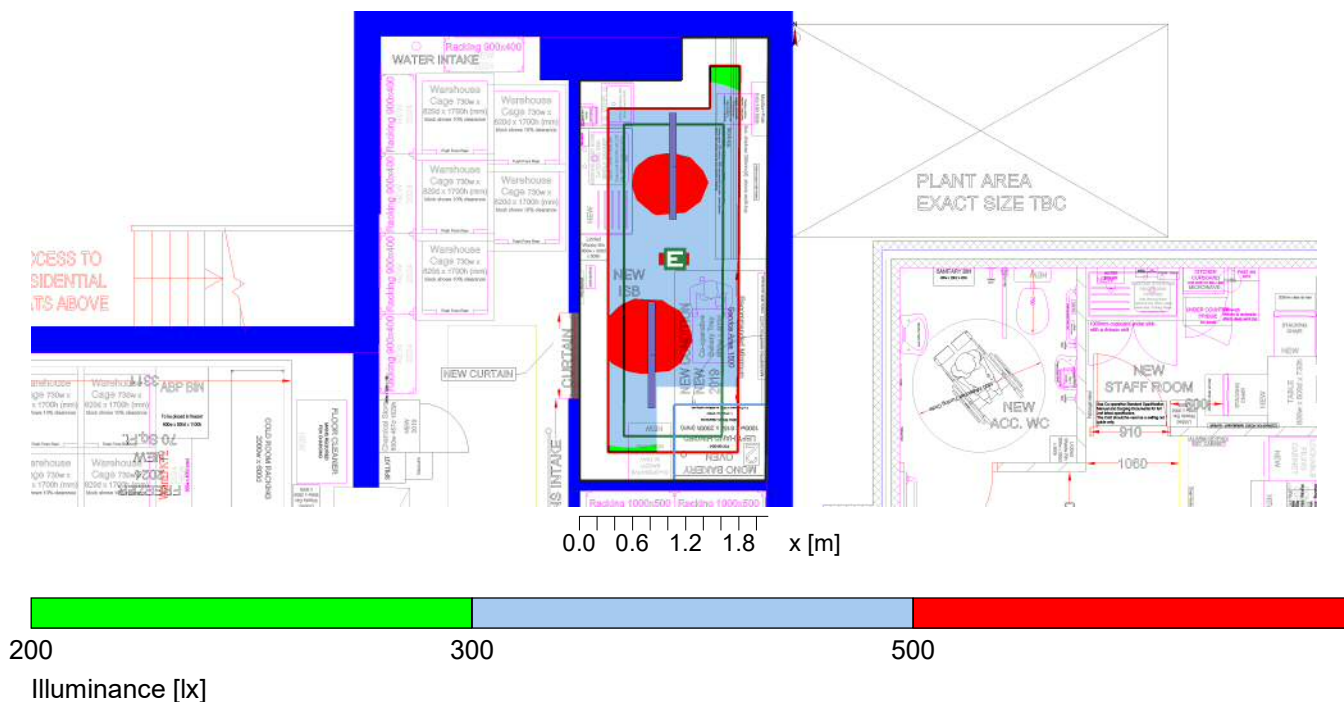


Object : Co-Op Cuckfield Whitemans Green
 Installation :
 Project number :
 Date : 18.06.2025

6 Bakery

6.1 Summary, Bakery

6.1.1 Result overview, Evaluation area 1



General

Calculation algorithm used
 Height of luminaire plane
 Maintenance factor

Average indirect fraction
 2.40 m
 0.80

Total lamp luminous flux
 Luminaire luminous flux
 Total power
 Total power per area (10.03 m²)

8000.00 lm
 7997.97 lm
 57.0 W
 5.69 W/m² (1.22 W/m²/100lx)

Evaluation area 1

Reference plane 1.1

$\bar{E}_m$
 E_{min}
 $E_{min}/\bar{E}_m (U_o)$
 $E_{min}/E_{max} (U_d)$
 E_z/E_h
 Position
 $R_{UG} (1.8H \ 4.3H)$
 Luminaire :
 (B3D, !WT120C G2 L1200 1 xLED40S/840)

Horizontal
 465 lx
 276 lx
 0.59
 0.52
 0.34
 1.30 m

Major surfaces

$\bar{E}_m$

U_o

Object : Co-Op Cuckfield Whitemans Green
Installation :
Project number :
Date : 18.06.2025



6 Bakery

6.1 Summary, Bakery

6.1.1 Result overview, Evaluation area 1

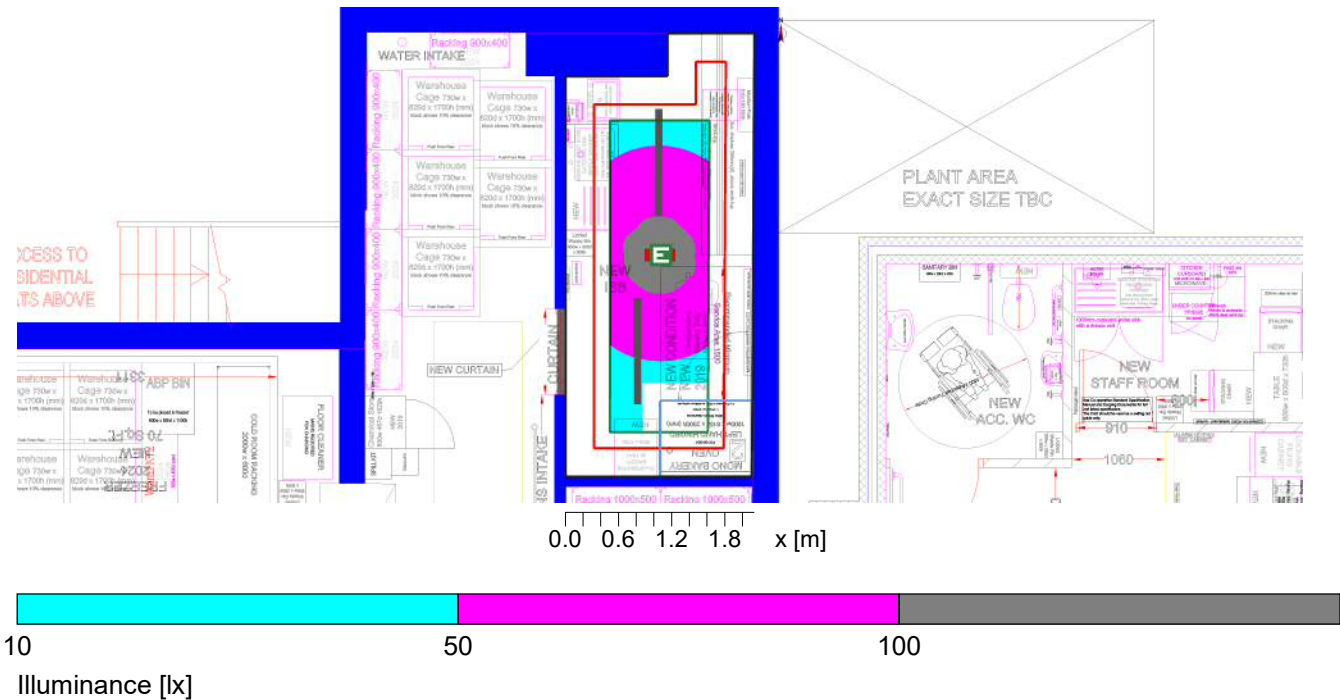
Type No. Make

		Philips Lighting	
5	2 x	Order No.	: !WT120C G2 L1200 1 xLED40S/840
		Luminaire name	: B3D
		Equipment	: 1 x LED40S/840 28.5 W / 4000 lm

6 Bakery

6.2 Summary, Bakery

6.2.1.1 Result overview (emergency lighting)



General

Calculation algorithm used : Direct component
Maintenance factor : 0.8
Height (phot centre) : 2.40 m
Maximum I : 350 cd <= 500 cd

Anti panic area:

No.	Surface	Emin [lx]	Emax [lx]	Ud
1	Anti panic area 1.1	17.65 lx	116.75 lx	1: 6.62
		>= 15 lx		>= 1 : 40



Type No. Make

19	1E x	Order No.	: !919013004999 PROF SM HO BKD LED120 850 NM3 ELD IP65	-- Emergency Li
		Luminaire name	: B6D-120	
		Equipment	: 1 x 7 W / 1169 lm (0%)	
		Emergency	: 1169 lm	

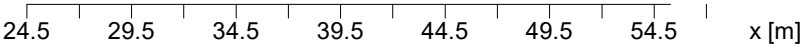
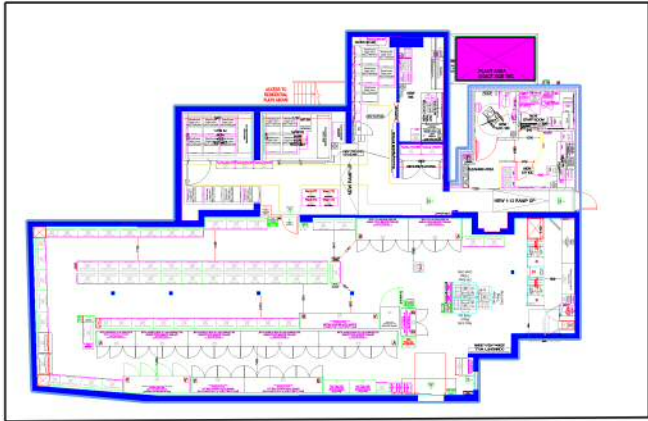
©signify

1.1.1 Floor plan

1 Exterior 1

1.2 Summary, Exterior 1

1.2.1 Result overview, Plant Area



Illuminance [lx]

General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
Maintenance factor	0.80
Total luminous flux	5000 lm
Total power	70 W
Total power per area (612.96 m²)	0.11 W/m²

Illuminance

Average illuminance	$\bar{E}_m$	71.3 lx
Minimum illuminance	E_{min}	60.5 lx
Maximum illuminance	E_{max}	84.2 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	1:1.18 (0.85)
Diversity U_d	E_{min}/E_{max}	1:1.39 (0.72)

Type No.\Make

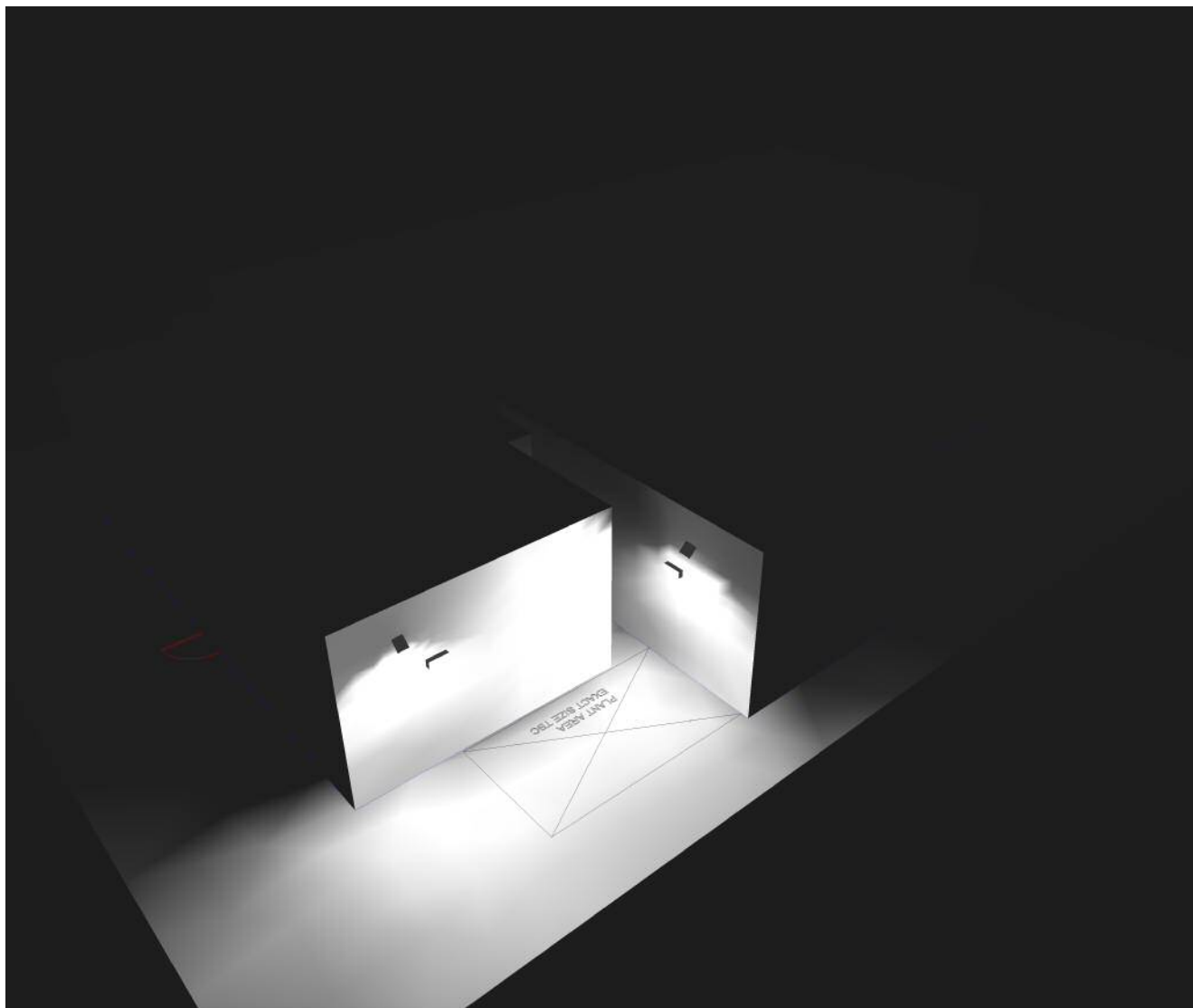
20	2 x	Philips Lighting
		Order No. : !911401852483 BVP164 LED24/840 PSU 20W SWB CE
		Luminaire name : B17
		Equipment : 1 x LED25/740/- 35 W / 2500 lm

Object : Co-Op Cuckfield Whitemans Green
Installation :
Project number :
Date : 18.06.2025

1 Exterior 1

1.3 Calculation results, Exterior 1

1.3.1 3D luminance, View 1

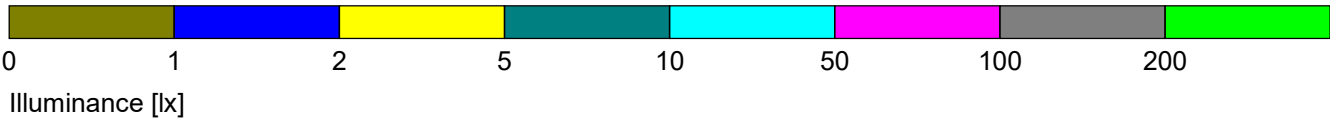
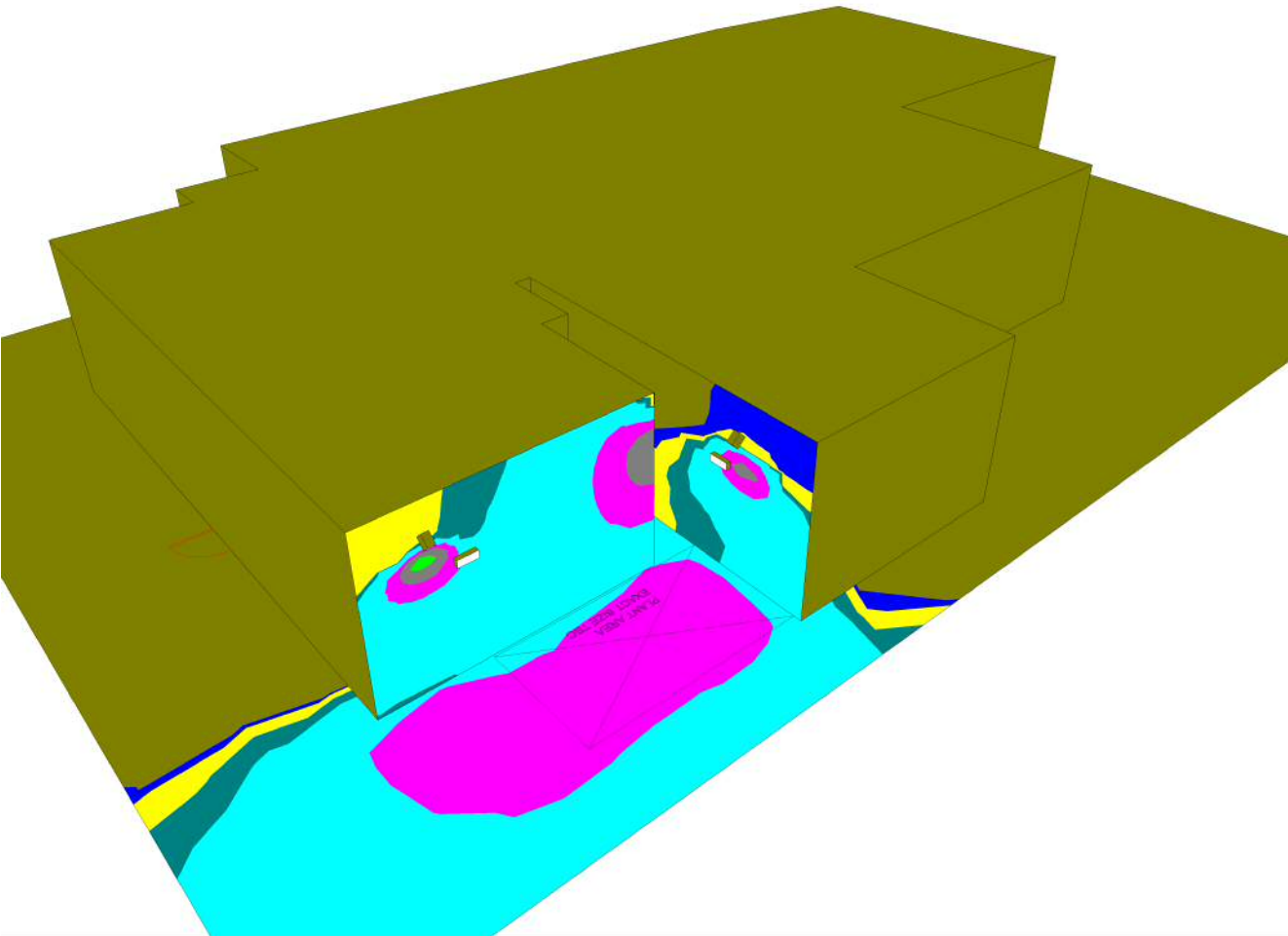


Luminance in the scene

Minimum: : 0 cd/m²
Maximum: : 21 cd/m²

1.3 Calculation results, Exterior 1

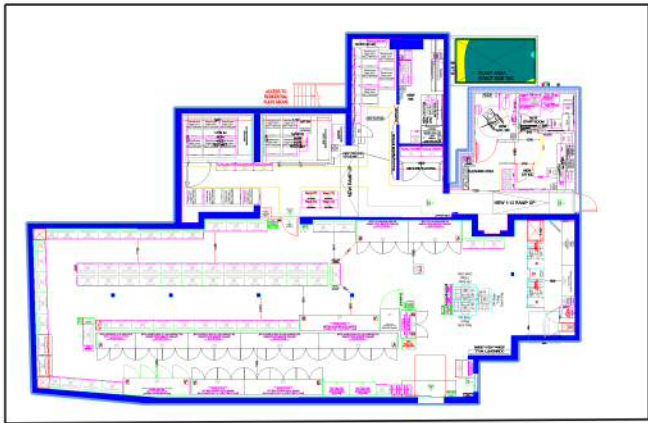
1.3.2 3D pseudo colours, View 1 (E)



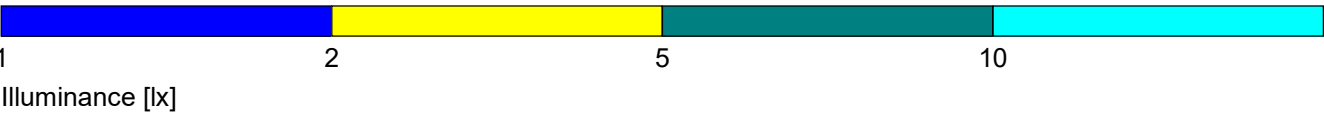
1 Exterior 1

1.4 Summary, Exterior 1

1.4.1.1 Result overview (emergency lighting)



24.5 29.5 34.5 39.5 44.5 49.5 54.5 x [m]

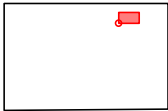


General

Calculation algorithm used : Direct component
Maintenance factor : 0.8
Height (phot centre) : 2.30 m
Maximum I : 170 cd <= 500 cd

Anti panic area:

No.	Surface Emin [lx]	Emax [lx]	Ud
2 Plant Area			
1	1.62 lx => 0.5 lx	10.13 lx	1: 6.24 => 1 : 40



Type No.\Make

7	2E x	LIAL Eulumdat	
		Order No.	: !SM BKD LED9S/840 PSD L370 NM3 ELD -- Emergency Lighting --
		Luminaire name	: B6D
		Equipment	: 1 x OLP 2 EMERGENCY 4.7 W / 590 lm (0%)
		Emergency	: 590 lm