



50 EARLHAM STREET
SEVEN DIALS, LONDON

EXISTING AND PROPOSED LIGHTING
SYSTEMS COMPARISON

P2016

| Revision | Date | Details | Authored | Checked |
|----------|------------|--------------------|----------|---------|
| P1 | 29/04/2021 | Issued for consent | SQ | SQ |
| | | | | |
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| | | | | |

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LONDON – One Bridge Wharf, 56 Caledonian Road, London, N1 9UU

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1. INTRODUCTION

This report details the efficacy comparison between the insitu past tenants (Belgo) lighting installation and the proposed replacement lighting system.

The area of the building this report refers to comprises solely the existing Class E unit situated at Basement, Ground and First floor levels at 50 Earlham St, formerly utilised as a Restaurant by the previous tenant Belgo.

2. LIGHTING EFFICACY

2.1. EXISTING INSTALLATION

The existing installation comprises mainly antiquated fluorescent linear, pendant and 2D fittings, including halogen spotlights to corridors and track lighting. Please see as follows sample photographs of said installation.



At the time of our site visit, the existing luminaires were in poor condition, with many luminaires either damaged or in need of lamp replacement as a minimum.

The luminaire efficacy of the existing fittings are detailed as follows:

| Existing luminaire type | Luminaire lumens / circuit watt | Building Regs Part L minimum efficacy requirement |
|---|---------------------------------|---|
| T8 fluorescent linear fitting with aluminium backed reflector | 58 lm/W | 60 lm / W |
| 2D fluorescent wall lights | 69 lm/W | 60 lm / W |
| E27 fluorescent pendants | 35 lm/W | 60 lm / W |
| Halogen GU10 lamp track spotlights | 15 lm/W | 60 lm / W |

* Datasheets for the existing fittings are unavailable, above details are based on information available from CIBSE and other recognised sources.

The overall floorplate energy usage of the existing lighting installation is **13.4 W/m²**.

The existing lighting controls are manual rocker switches.

2.2. PROPOSED INSTALLATION

The proposed installation will comprise LED tape, LED wall lights and LED GU10 spotlights to replacement the existing installation whilst maintain an equivalent aesthetic appeal.

The luminaire efficacy of the proposed fittings are detailed as follows:

| Proposed luminaire type | Luminaire lumens / circuit watt | Building Regs Part L minimum efficacy requirement |
|--------------------------------|---------------------------------|---|
| LED linear fitting | 93 lm/W | 60 lm / W |
| LED wall lights | 125 lm/W | 60 lm / W |
| Pendants | N/A | - |
| LED GU10 lamp track spotlights | 74 lm/W | 60 lm / W |

Please refer to Appendix A for details of the proposed luminaires datasheets.

The overall floorplate energy usage of the existing lighting installation is **4.8 W/m²**.

The proposed lighting controls are manual rocker switches to the open plan front of house areas and presence detection to all circulation and back of house areas to minimise energy waste from the lighting installation.

3. CONCLUSION

The energy usage of the proposed installation when comparing to existing is a reduction of 8.6 W/m², this is prior to taking account of the efficiency improvement from the upgraded lighting controls system being proposed.

At basement level alone, the proposed lighting installation will equate to an energy usage reduction of c. 7kW/hr.

The proposed lighting installation will be a vast improvement in efficiency and will help towards reducing the Class E units carbon footprint and more in the spirit of meeting London Plan energy targets, whilst maintaining the aesthetic appearance of the existing installation and general aesthetic of the space.

4. APPENDIX A – PROPOSED LUMINAIRE DATASHEETS

COBGU7D

SPECIFICATION SHEET



DESCRIPTION

- 7W Dimmable GU10 LED Lamp.
- 520lm
- CRI 80
- AC 220-240V 50Hz
- 36° Beam Angle
- 15,000hr lamp life

| CODE | COLOUR | COLOUR TEMP. |
|------------------|-------------------|--------------|
| COBGU7DWW | Warm White | 3000K |
| COBGU7DNW | Natural White | 4000K |
| COBGU7DCW | Cool White | 6500K |

CLASSIFICATION



DIMENSIONS/DRAWING

Height: 56mm
Diameter: Ø50mm

FINISH

Emco House, Units 6-10, Marshgate Drive
Hertford, Hertfordshire, SG13 7JY, UK

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MT301

SPECIFICATION SHEET



DESCRIPTION

- 230V 10a Track including live & dead end.
- Suitable for our range of single circuit track fittings
- 5 Year Guarantee

| CODE | LENGTH |
|------------------|----------------|
| MT301-100 | 1 metre |
| MT301-150 | 1.5 metre |
| MT301-200 | 2 metre |

CLASSIFICATION

CE RoHS

DIMENSIONS/DRAWING

FINISH



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GU705

SPECIFICATION SHEET



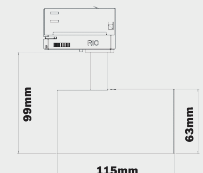
DESCRIPTION

- LED track light fitting for GU10 lamp source.
- 90° tilt angle
- 350° rotation angle
- Suitable to use with our **COBGU7** and **COBGU7D** GU10 Lamps
- Suited for our 230V Mains Track
- 5 Year Guarantee

CLASSIFICATION



DIMENSIONS/DRAWING



FINISH



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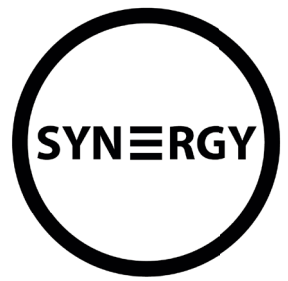
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| Code | Finish | Size (mm) | Delivered Lumens (lm) | Total System Wattage (W) | Efficacy (lm/cw) | Colour Temp (°K) | CRI |
|--------------------------|------------------------|-----------|-----------------------|--------------------------|------------------|------------------|-----|
| DCS/F/2200/CB/4K8 | Clear base halo effect | 435 | 2247 | 18 | 124.8 | 4000 | >80 |
| DCS/F/2000/WB/4K8 | White base | 435 | 2030 | 18 | 112.8 | 4000 | >80 |
| DCS/F/3900/CB/4K8 | Clear base halo effect | 470 | 3909 | 30 | 130.3 | 4000 | >80 |
| DCS/F/3500/WB/4K8 | White base | 470 | 3480 | 30 | 116.0 | 4000 | >80 |

- 5 year warranty
- See website for Relux/LDT files
- For CAD/BIM contact us
- For bespoke lengths please contact us
- See website for Technical Data Sheet
- Comes with BESA box knockouts on base



LED BULKHEAD LUMINAIRE

Construction

- PMMA opal diffuser

Features

- Ceiling or wall fixtures
- Emergency versions
- Dimmable versions

Applications

- Offices
- Public spaces
- Hospitals
- Washrooms
- Hotels and restaurants
- Schools

Benefits

- IP40
- 5 year warranty

Optical Options

| Code | Description |
|------|-------------|
| N/A | Opal |

CCT Options

| Code | Description |
|------|------------------|
| 4K8 | 4000K (Standard) |
| 3K8 | 3000K |
| 6K8 | 6000K |

For 3000K version, replace '4K8' in part number with '3K8'

Control Options

| Code | Description |
|------|-------------------|
| D | DALI |
| S | Switchdim control |
| /CF | Corridor function |
| /NL | Nightlight |
| /MW | Microwave sensor |

For DALI control, replace 'F' in part number with 'D' for SwitchDim replace 'F' with 'S'. For corridor function, Microwave sensor or Nightlight add the code to the end.

Mounting Options

| Code | Description |
|------|-------------|
| N/A | Surface |

Finish Options

| Code | Description |
|------|------------------|
| W | White (Standard) |
| PC | Polished Chrome |
| SC | Satin Chrome |

Emergency Options

| Code | Description |
|------|-------------------------------------|
| /EM | 3 hour maintained, manual test |
| /ED | 3 hour maintained, DALI / Self Test |

For emergency version, add onto end of part number as required.

5. APPENDIX B – PROPOSED LUMINAIRE INSTALLATION PHOTOMETRIC CALCULATIONS

Seven Dials Warehouse - LG

Installation : Proposed New Lighting

Project number : IJF01310-R1
Customer : EJ White and Son
Processed by : Ian Forrow
Date : 16.02.2021

Project description:

Disclaimer

Lighting designs are carried out for estimation purposes only and whilst Synergy has made every attempt to ensure the accuracy and reliability of the designs contained within this lighting report, we do not accept any responsibility or liability for the accuracy or reliability of the results.

Unless otherwise stated, all designs are based on a ceiling height of 2.8m and standard room reflectances (20% floor, 70% ceiling and 50%

wall). The calculated results do not take into account all factors and circumstances and to this end, Synergy cannot be held liable for the enclosed lighting design.

Calculations performed using this tool are based on photometric data provided by the manufacturer, and the accuracy of the calculated

photometric performance is dependent on the accuracy of the data provided.

It is the obligation of the end-user to consult a professional engineering advisor to determine whether the lighting report generated meets the applicable project requirements for lighting system performance, and effectiveness.

The following values are based on precise calculations performed on calibrated lamps and luminaires, and their configurations, whereby gradual, unavoidable deviations can occur in practice. All guarantee claims are excluded for the specified data.

This exclusion of liability applies irrespective of the legal grounds for both damages and consequential damages suffered by users and third parties.

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1 Luminaire data

1.1 Synergy Commercial Lighting, Cosmo (!CSM/15/F/5300/4K8)

1.1.1 Data sheet

Manufacturer: Synergy Commercial Lighting

!CSM/15/F/5300/4K8

Cosmo

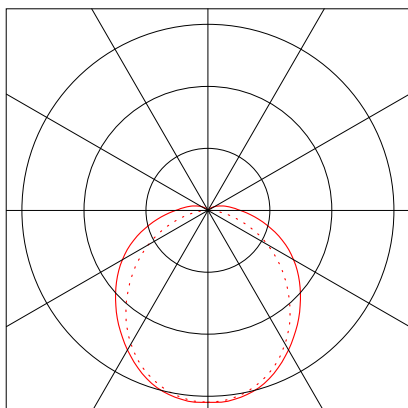
Luminaire data

Luminaire efficiency : 100%
Luminaire efficacy : 96.11 lm/W
Classification : A31 ↓93.9% ↑6.1%
CIE Flux Codes : 44 73 91 94 100
UGR 4H 8H : 25.0 / 22.6
Power : 57.05 W
Luminous flux : 5483.4 lm

Equipped with

Quantity : 1
Designation : LED
Colour : 0
Luminous flux : 5483.4 lm
Colour reproduction : 4000K

Dimensions : 1480 mm x 80 mm x 30 mm



1 Luminaire data

1.2 Synergy Commercial Lighting, Cosmo (!CSM/15/F/5300/4K8/EM)

1.2.1 Data sheet

Manufacturer: Synergy Commercial Lighting

!CSM/15/F/5300/4K8/EM

Cosmo

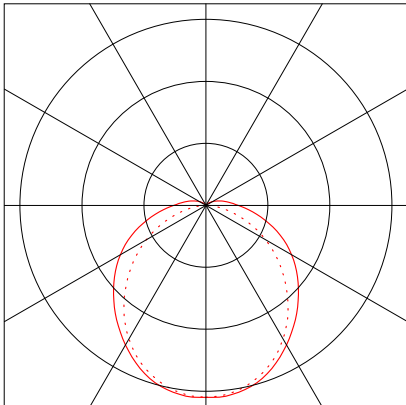
Luminaire data

Luminaire efficiency : 100%
Luminaire efficacy : 96.11 lm/W
Classification : A31 ↓93.9% ↑6.1%
CIE Flux Codes : 44 73 91 94 100
UGR 4H 8H : 25.0 / 22.6
Power : 57.05 W
Luminous flux : 5483.4 lm

Equipped with

Quantity : 1
Designation : LED
Colour : 0
Luminous flux : 5483.4 lm
Colour reproduction : 4000K

Dimensions : 1480 mm x 80 mm x 30 mm



Emergency Lighting

Light source from normal operation with reduced flux
Luminous flux : 288 lm

Object : Seven Dials Warehouse - LG
Installation : Proposed New Lighting
Project number : IJF01310-R1
Date : 16.02.2021

1 Luminaire data

1.3 Synergy Lighting, Discus 420mm, White Ba... (!DCS/420/F/3500...)

1.3.1 Data sheet

Manufacturer: Synergy Lighting

!DCS/420/F/3500/WB/EM

Discus 420mm, White Base, 3500lmn, 4K8

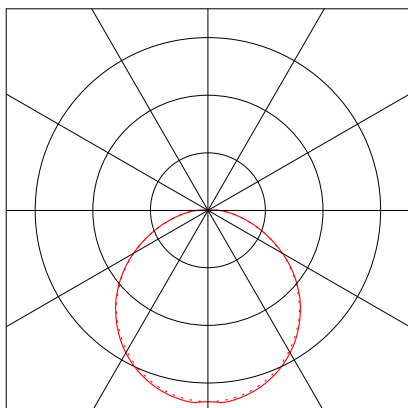
Luminaire data

Luminaire efficiency : 100%
Luminaire efficacy : 113.82 lm/W
Classification : A40 ↓98.6% ↑1.4%
CIE Flux Codes : 46 77 93 99 100
UGR 4H 8H : 23.3 / 23.3
Power : 30.58 W
Luminous flux : 3480.8 lm

Equipped with

Quantity : 1
Designation : C420WB
Colour : 0
Luminous flux : 3480.8 lm

Dimensions : Ø400 mm x 30 mm



Emergency Lighting

Light source from normal operation with reduced flux
Luminous flux : 300 lm

Object : Seven Dials Warehouse - LG
Installation : Proposed New Lighting
Project number : IJF01310-R1
Date : 16.02.2021

1 Luminaire data

1.4 Synergy Lighting, Smart Pro Emergency, DA... (!SPEW/R/3W/MT/OA)

1.4.1 Data sheet

Manufacturer: Synergy Lighting

!SPEW/R/3W/MT/OA Smart Pro Emergency, DALI, Open Area, Black, Round

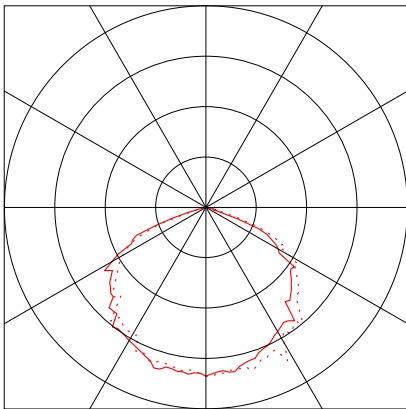
Luminaire data

Absolute Photometry
Luminaire efficacy : 54.91 lm/W
Classification : A40 ↓100.0% ↑0.0%
CIE Flux Codes : 47 82 100 100 101
UGR 4H 8H : 28.0 / 28.8
Power : 2.24 W
Luminous flux : 123 lm

Equipped with

Quantity : 1
Designation : LED
Colour :

Dimensions : Ø178 mm x 45 mm



Emergency Lighting

Light source from normal operation with reduced flux
Luminous flux : 123 lm

Object : Seven Dials Warehouse - LG
Installation : Proposed New Lighting
Project number : IJF01310-R1
Date : 16.02.2021

1 Luminaire data

1.5 Synergy Lighting, Anaconda (ANA_NM_3W_MT_SUS)

1.5.1 Data sheet

Manufacturer: Synergy Lighting

ANA_NM_3W_MT_SUS Anaconda

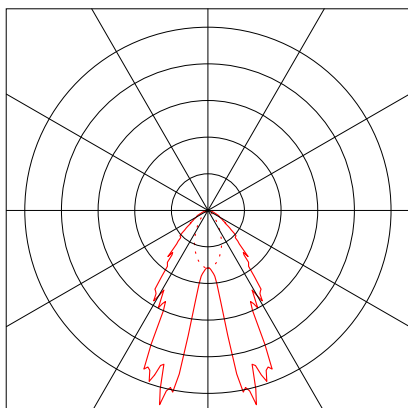
Luminaire data

Luminaire efficiency : 96%
Luminaire efficacy : 48 lm/W
Classification : A60 ↓99.3% ↑0.7%
CIE Flux Codes : 74 94 99 99 96
UGR 4H 8H : <10.0 / <10.0
Power : 3 W
Luminous flux : 144 lm

Equipped with

Quantity : 1
Designation : 1W LED
Colour :
Luminous flux : 150 lm
Colour reproduction : 0

Dimensions : 330 mm x 110 mm x 39 mm



1 Luminaire data

1.6 Generic, 550 lmn 60° (!GU10 550lm 60°)

1.6.1 Data sheet

Manufacturer: Generic

!GU10 550lm 60°

550 lmn 60°

Luminaire data

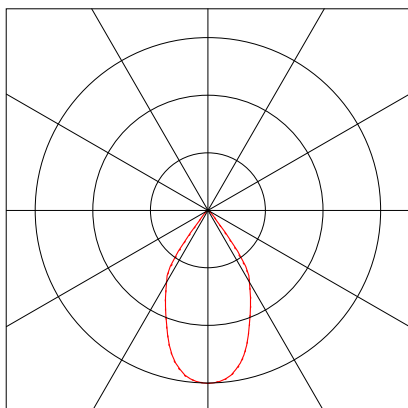
Absolute Photometry

Luminaire efficacy : 60.99 lm/W
Classification : A70 ↓100.0% ↑0.0%
CIE Flux Codes : 94 99 100 100 100
UGR 4H 8H : <10.0 / <10.0
Power : 9 W
Luminous flux : 548.9 lm

Equipped with

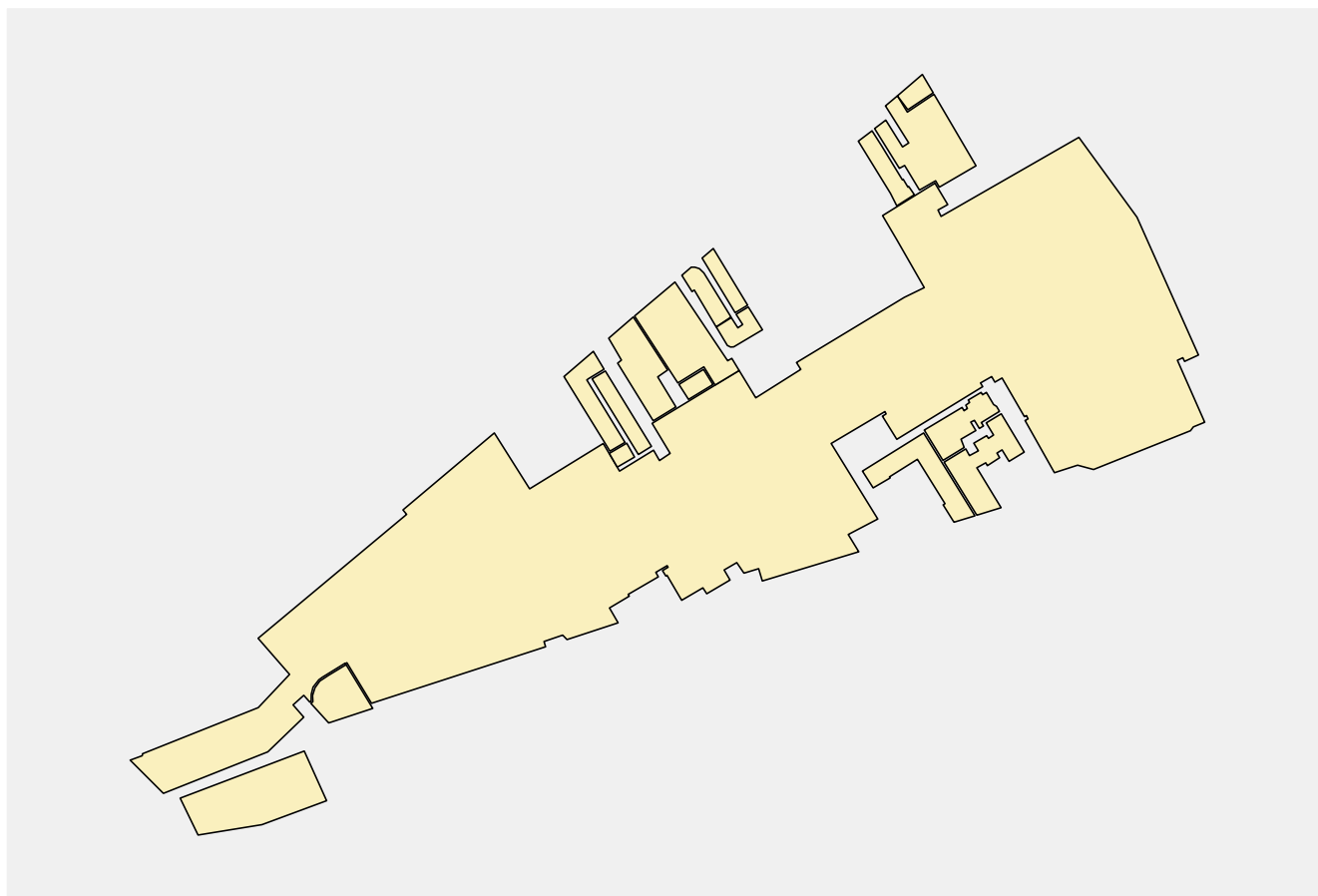
Quantity : 1
Designation : LED
Colour : 4000 K
Colour reproduction : 82

Dimensions : 150 mm x 150 mm x 200 mm



Summary, Floor 1




.1 Floor overview



| | | |
|----------------------------------|-----------------------|------------|
| Number of rooms | 18 | |
| Total area | 827 m ² | Calculated |
| Number of luminaires | 259 | |
| Total luminous flux of all lamps | 317080.123 lm | |
| Total power | 3965.8 W | |
| Total power per area | 4.80 W/m ² | |


Parts list


Type No. Make


| | | | |
|---|----|------------------------------------|--|
| | | Synergy Commercial Lighting | |
| 1 | 9 | Order No. | : !CSM/15/F/5300/4K8 |
|  | | Luminaire name | : Cosmo |
| | | Equipment | : 1 x LED 57.05 W / 5483.35 lm |
| 2 | 27 | Order No. | : !CSM/15/F/5300/4K8/EM |
|  | | Luminaire name | : Cosmo |
| | | Equipment | : 1 x LED 57.05 W / 5483.35 lm |
| | | Synergy Lighting | |
| 3 | 2 | Order No. | : !DCS/420/F/3500/WB/EM |
|  | | Luminaire name | : Discus 420mm, White Base, 3500lmn, 4K8 |
| | | Equipment | : 1 x C420WB 30.58 W / 3480.76 lm |

Summary, Floor 1

.1 Floor overview

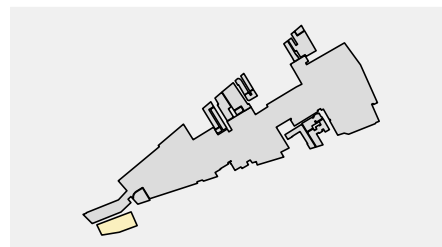
4 16 Order No. : !SPEW/R/3W/MT/OA -- Emergency Lighting --

 Luminaire name : Smart Pro Emergency, DALI, Open Area, Black, Round
 Equipment : 1 x LED 2.24 W / 123 lm (0%)

5 5 Order No. : ANA_NM_3W_MT_SUS

 Luminaire name : Anaconda
 Equipment : 1 x 1W LED 3 W / 150 lm

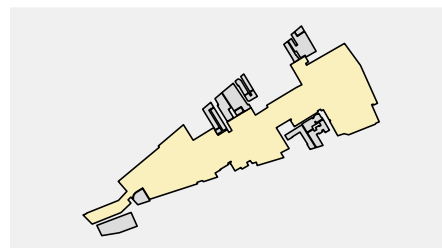
Generic
 6 200 Order No. : !GU10 550lm 60°

 Luminaire name : 550 lmn 60°
 Equipment : 1 x LED 9 W / 550 lm

Rooms

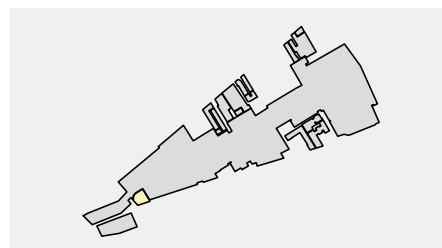
Room 1 2 x Luminaires
 Total luminous flux of all lamps 10966.7002 lm
 Total power 114.1 W
 Total power per area (25 m²) 4.51 W/m²
 Em 249 lx
 Emin 87 lx
 Emin/Em (Uo) 0.35
 UGR ---



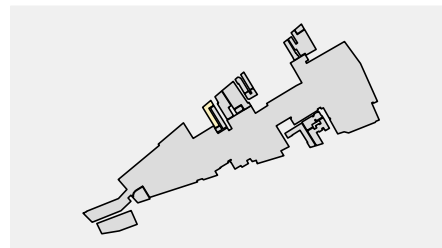
Room 2 223 x Luminaires
 Total luminous flux of all lamps 129018.047 lm
 Total power 2018.99 W
 Total power per area (679 m²) 2.98 W/m²
 Em 152 lx
 Emin 9 lx
 Emin/Em (Uo) 0.06
 UGR ---



Room 3 2 x Luminaires
 Total luminous flux of all lamps 10966.7002 lm
 Total power 114.1 W
 Total power per area (8 m²) 14.43 W/m²
 Em 314 lx
 Emin 241 lx
 Emin/Em (Uo) 0.77
 UGR ---



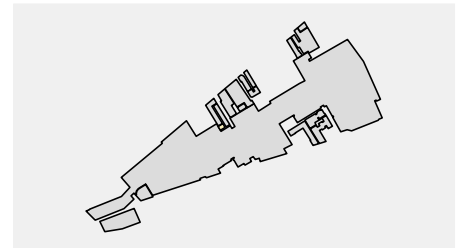
Room 4 2 x Luminaires
 Total luminous flux of all lamps 10966.7002 lm
 Total power 114.1 W
 Total power per area (7 m²) 15.45 W/m²
 Em 194 lx
 Emin 97 lx
 Emin/Em (Uo) 0.50
 UGR ---



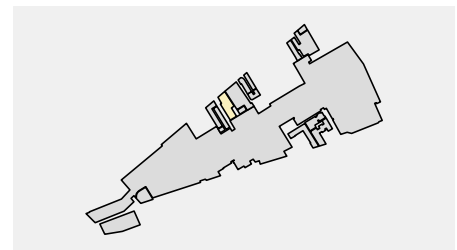
Summary, Floor 1

.1 Floor overview

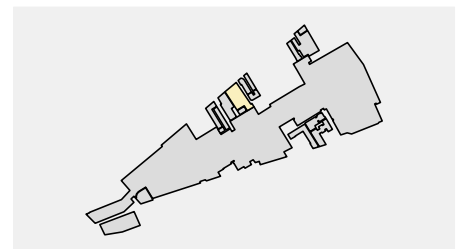
Room 5 1 x Luminaires
 Total luminous flux of all lamps 3480.76001 lm
 Total power 30.58 W
 Total power per area (1 m²) 25.39 W/m²
 Em 193 lx
 Emin 183 lx
 Emin/Em (Uo) 0.95
 UGR ---



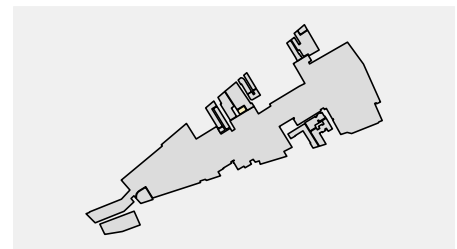
Room 6 3 x Luminaires
 Total luminous flux of all lamps 16450.0508 lm
 Total power 171.15 W
 Total power per area (12 m²) 14.48 W/m²
 Em 435 lx
 Emin 344 lx
 Emin/Em (Uo) 0.79
 UGR ---



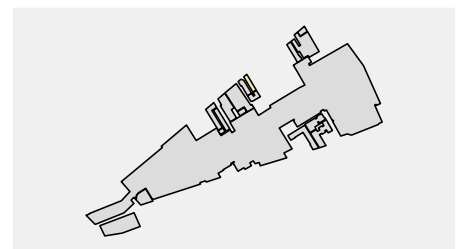
Room 7 5 x Luminaires
 Total luminous flux of all lamps 22083.4004 lm
 Total power 231.2 W
 Total power per area (19 m²) 12.25 W/m²
 Em 462 lx
 Emin 185 lx
 Emin/Em (Uo) 0.40
 UGR ---



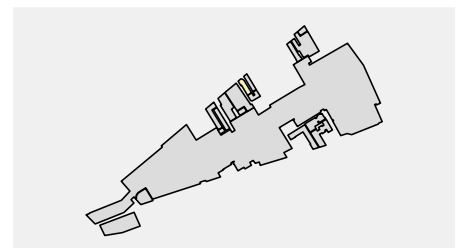
Room 8 1 x Luminaires
 Total luminous flux of all lamps 3480.76001 lm
 Total power 30.58 W
 Total power per area (2 m²) 15.89 W/m²
 Em 187 lx
 Emin 171 lx
 Emin/Em (Uo) 0.91
 UGR ---



Room 9 1 x Luminaires
 Total luminous flux of all lamps 5483.3501 lm
 Total power 57.05 W
 Total power per area (4 m²) 15.95 W/m²
 Em 192 lx
 Emin 115 lx
 Emin/Em (Uo) 0.60
 UGR ---



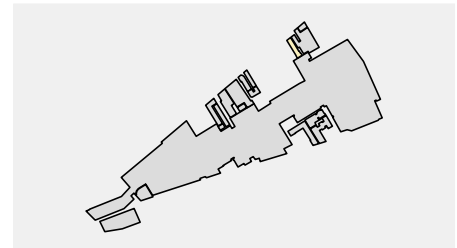
Room 10 1 x Luminaires
 Total luminous flux of all lamps 5483.3501 lm
 Total power 57.05 W
 Total power per area (4 m²) 13.52 W/m²
 Em 134 lx
 Emin 76 lx
 Emin/Em (Uo) 0.56
 UGR ---



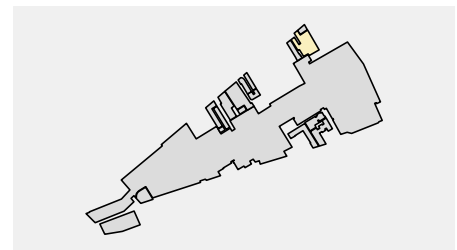
Summary, Floor 1

.1 Floor overview

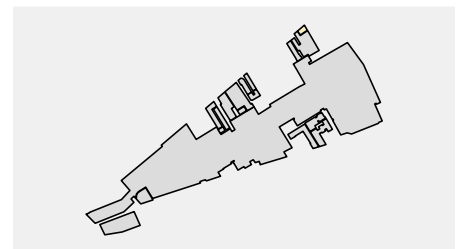
Room 11 1 x Luminaires
 Total luminous flux of all lamps 5483.3501 lm
 Total power 57.05 W
 Total power per area (5 m²) 11.19 W/m²
 Em 124 lx
 Emin 76 lx
 Emin/Em (Uo) 0.61
 UGR ---



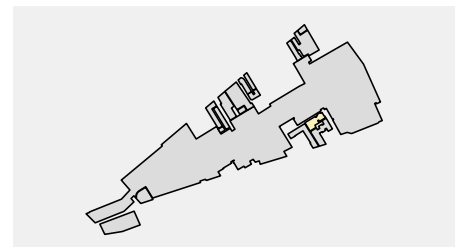
Room 12 6 x Luminaires
 Total luminous flux of all lamps 32900.1016 lm
 Total power 342.3 W
 Total power per area (20 m²) 17.22 W/m²
 Em 657 lx
 Emin 447 lx
 Emin/Em (Uo) 0.68
 UGR ---



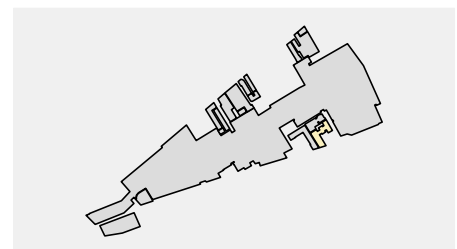
Room 13 1 x Luminaires
 Total luminous flux of all lamps 5483.3501 lm
 Total power 57.05 W
 Total power per area (2 m²) 24.86 W/m²
 Em 259 lx
 Emin 210 lx
 Emin/Em (Uo) 0.81
 UGR ---



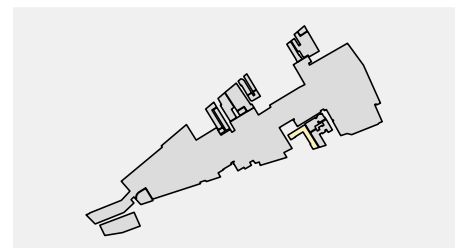
Room 14 2 x Luminaires
 Total luminous flux of all lamps 10966.7002 lm
 Total power 114.1 W
 Total power per area (8 m²) 14.44 W/m²
 Em 293 lx
 Emin 167 lx
 Emin/Em (Uo) 0.57
 UGR ---



Room 15 3 x Luminaires
 Total luminous flux of all lamps 16450.0508 lm
 Total power 171.15 W
 Total power per area (11 m²) 14.89 W/m²
 Em 309 lx
 Emin 139 lx
 Emin/Em (Uo) 0.45
 UGR ---



Room 16 3 x Luminaires
 Total luminous flux of all lamps 16450.0508 lm
 Total power 171.15 W
 Total power per area (11 m²) 15.75 W/m²
 Em 221 lx
 Emin 110 lx
 Emin/Em (Uo) 0.50
 UGR ---



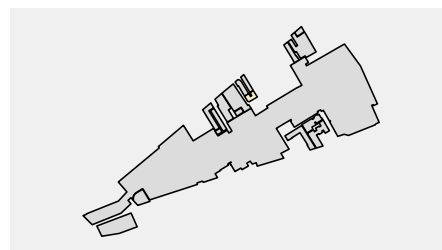
Summary, Floor 1

.1 Floor overview

| | |
|--|------------------------|
| Room 17 | 1 x Luminaires |
| Total luminous flux of all lamps | 5483.3501 lm |
| Total power | 57.05 W |
| Total power per area (5 m ²) | 11.07 W/m ² |
| Em | 107 lx |
| Emin | 47 lx |
| Emin/Em (Uo) | 0.44 |
| UGR | --- |



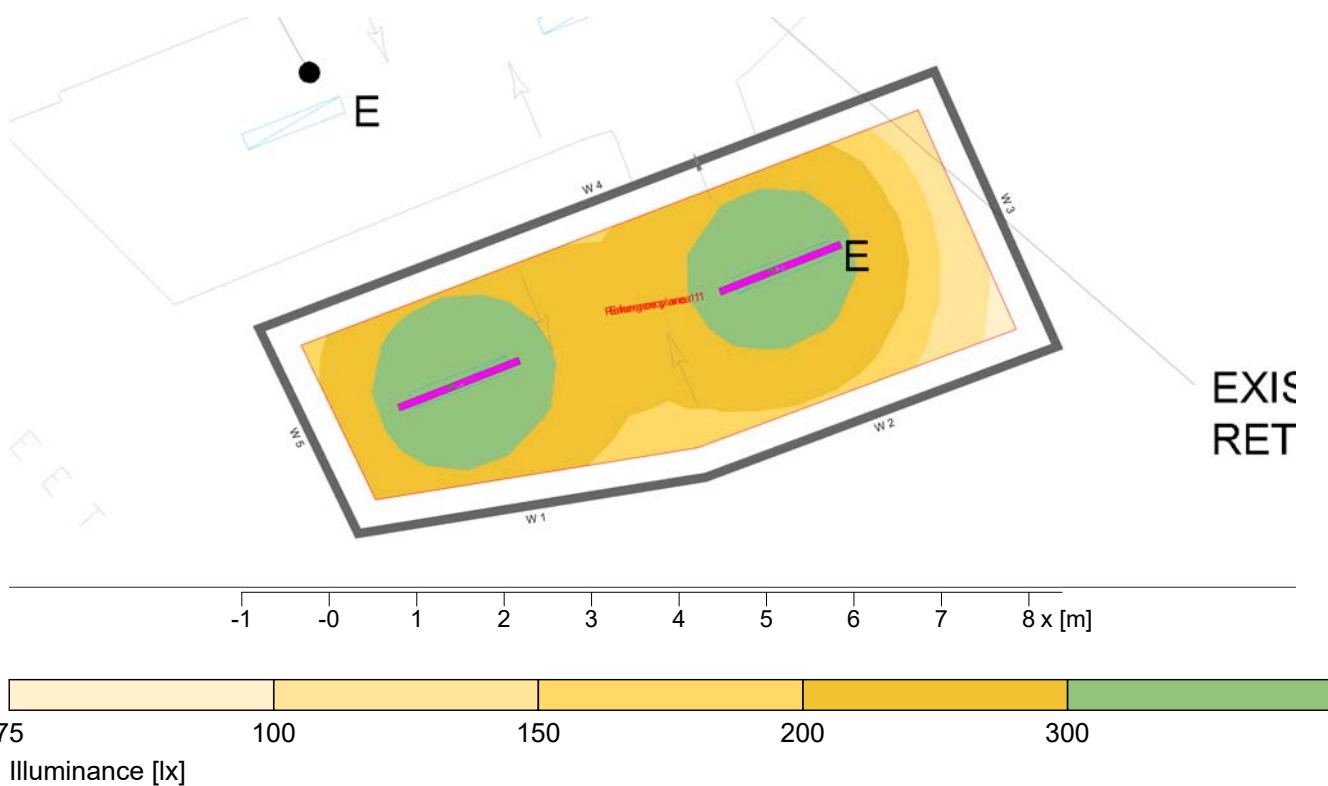
| | |
|--|------------------------|
| Room 18 | 1 x Luminaires |
| Total luminous flux of all lamps | 5483.3501 lm |
| Total power | 57.05 W |
| Total power per area (3 m ²) | 16.38 W/m ² |
| Em | 218 lx |
| Emin | 137 lx |
| Emin/Em (Uo) | 0.63 |
| UGR | --- |



1 Room 1

1.1 Summary, Room 1

1.1.1 Result overview, Evaluation area 1



General

| | |
|--|--|
| Calculation algorithm used | Average indirect fraction |
| Height of luminaire plane | 2.00 m |
| Maintenance factor | 0.80 |
| Total luminous flux of all lamps | 10966.70 lm |
| Total power | 114.1 W |
| Total power per area (25.32 m ²) | 4.51 W/m ² (1.81 W/m ² /100lx) |

Evaluation area 1

Reference plane 1.1

| | | |
|----------------|------------|--------|
| Em | Horizontal | 249 lx |
| Emin | | 87 lx |
| Emin/Em (Uo) | | 0.35 |
| Emin/Emax (Ud) | | 0.22 |
| Position | | 0.00 m |

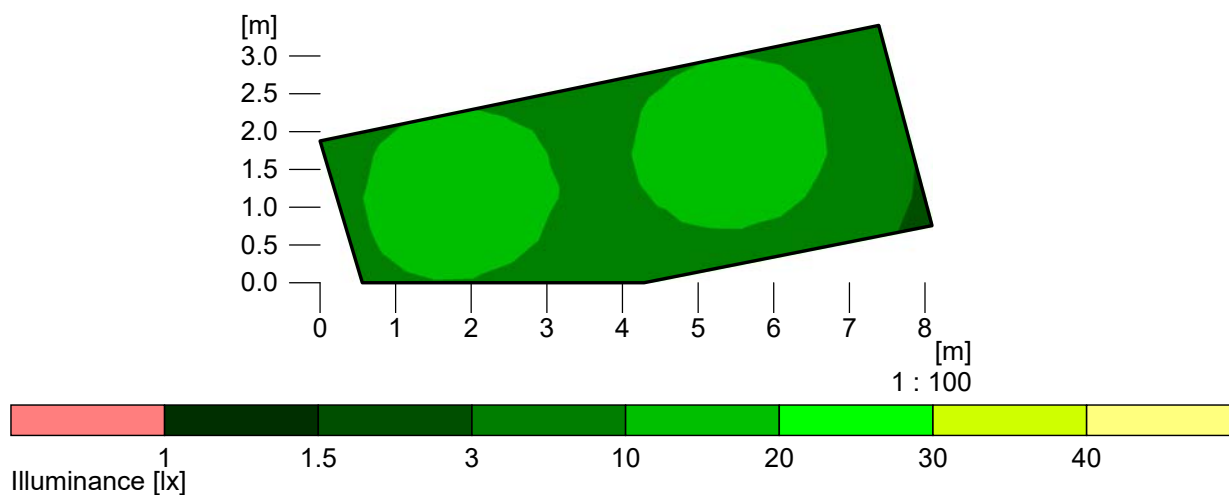
Type No./Make

| | |
|--|-----------------------------------|
| Synergy Commercial Lighting | |
| 2 | Order No. : !CSM/15/F/5300/4K8/EM |
| 2 | Luminaire name : Cosmo |
| Equipment : 1 x LED 57.05 W / 5483.35 lm | |

1 Room 1

1.2 Calculation results, Room 1

1.2.1 Boundary line, Emergency area 1 (E)



| | | |
|------------------------------|------------------------------------|--|
| Required minimum illuminance | | : 1 lx |
| Minimum illuminance | E _{min} | : 2 lx |
| Maximum illuminance | E _{max} | : 17 lx |
| Diversity | E _{min} /E _{max} | : 1 : 8.31 (0.12) (Threshold value 1:40) |
| Height | | : 0 m |
| Calculation algorithm used | | : Direct component |
| Maintenance factor | | : 0.8 |

Object : Seven Dials Warehouse - LG
Installation : Proposed New Lighting
Project number : IJF01310-R1
Date : 16.02.2021

1.2 Summary, Room 1

1.2.2 Result overview (emergency lighting)

Type No. Make

Synergy Commercial Lighting
2 2 Order No. : !CSM/15/F/5300/4K8/EM
Luminaire name : Cosmo
Equipment : 1 x LED 57.05 W / 288 lm

Result evaluation area

Calculation algorithm used: Direct component
Maintenance factor: 0.8

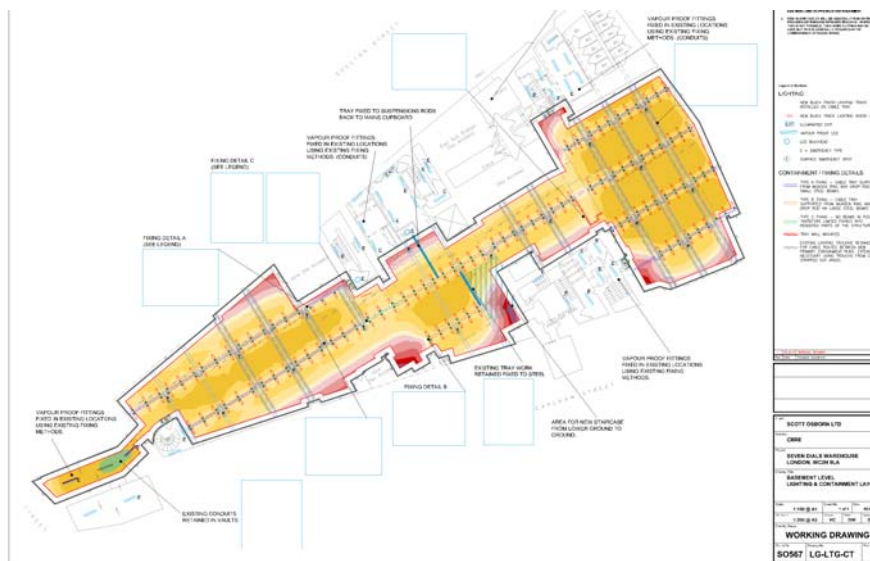
Emergency area:

| No. | Default[lx] | Emin[lx] | Surface Emax[lx] | Diversity | Height |
|------------------|-------------|----------|---------------------|-----------|--------|
| Emergency area 1 | | | | | |
| 1 | 1.0 | 2.0 | 16.8 | 1: 8.31 | 0.00 |

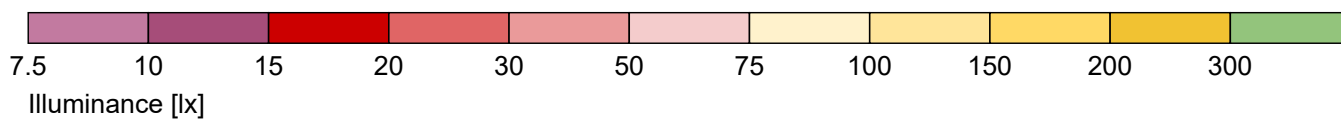
2 Room 2

2.1 Summary, Room 2

2.1.1 Result overview, Evaluation area 1



-1 9 19 29 39 49 59 x [m]



General



| | |
|---|--|
| Calculation algorithm used | Average indirect fraction |
| Maintenance factor | 0.80 |
| Total luminous flux of all lamps | 129018.05 lm |
| Total power | 2019.0 W |
| Total power per area (678.58 m ²) | 2.98 W/m ² (1.96 W/m ² /100lx) |

Evaluation area 1

Reference plane 1.1

| | |
|----------------|------------|
| | Horizontal |
| Em | 152 lx |
| Emin | 9 lx |
| Emin/Em (Uo) | 0.06 |
| Emin/Emax (Ud) | 0.03 |
| Position | 0.00 m |




Type No./Make

| | | | |
|---|---|------------------------------------|--------------------------------|
| | | Synergy Commercial Lighting | |
| 1 | 1 | Order No. | : !CSM/15/F/5300/4K8 |
|  | | Luminaire name | : Cosmo |
| | | Equipment | : 1 x LED 57.05 W / 5483.35 lm |
| 2 | 2 | Order No. | : !CSM/15/F/5300/4K8/EM |
|  | | Luminaire name | : Cosmo |
| | | Equipment | : 1 x LED 57.05 W / 5483.35 lm |

2 Room 2

2.1 Summary, Room 2

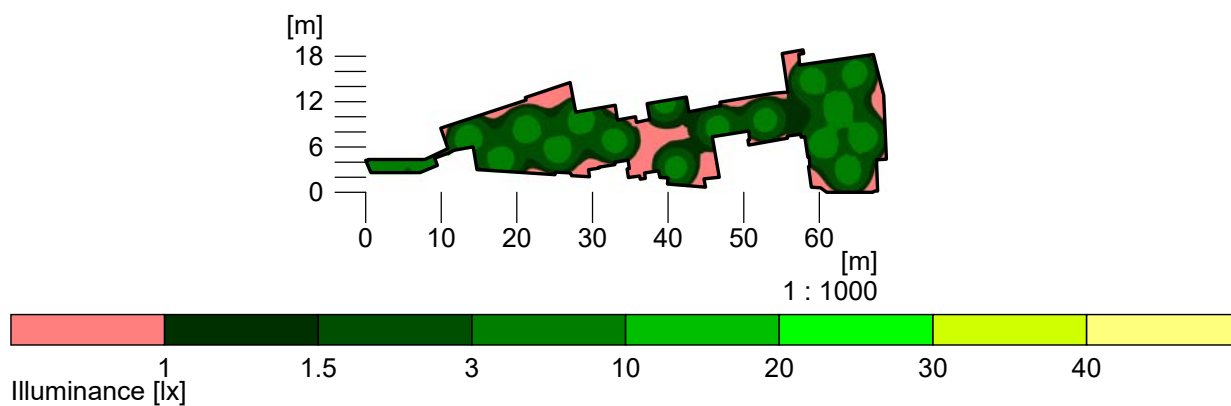
2.1.1 Result overview, Evaluation area 1

| | | Synergy Lighting | |
|---|-----|-------------------------|--|
| 4 | 16 | Order No. | : !SPEW/R/3W/MT/OA -- Emergency Lighting -- |
|  | | Luminaire name | : Smart Pro Emergency, DALI, Open Area, Black, Round |
| | | Equipment | : 1 x LED 2.24 W / 123 lm (0%) |
| 5 | 4 | Order No. | : ANA_NM_3W_MT_SUS |
|  | | Luminaire name | : Anaconda |
| | | Equipment | : 1 x 1W LED 3 W / 150 lm |
| 6 | 200 | Order No. | : !GU10 550lm 60° |
|  | | Luminaire name | : 550 lmn 60° |
| | | Equipment | : 1 x LED 9 W / 550 lm |

2 Room 2

2.2 Calculation results, Room 2

2.2.1 Boundary line, Emergency area 1 (E)





| | | |
|------------------------------|------------------------------------|------------------------------|
| Required minimum illuminance | | : 1 lx |
| Minimum illuminance | E _{min} | : 0 lx |
| Maximum illuminance | E _{max} | : 9 lx |
| Diversity | E _{min} /E _{max} | : --- (Threshold value 1:40) |
| Height | | : 0 m |
| Calculation algorithm used | | : Direct component |
| Maintenance factor | | : 0.8 |

2.2 Summary, Room 2

2.2.2 Result overview (emergency lighting)

Type No. Make

| | | | |
|---|----|---|--------------------------|
| | | Synergy Commercial Lighting | |
| 2 | 2 | Order No. : !CSM/15/F/5300/4K8/EM | |
|  | | Luminaire name : Cosmo | |
| | | Equipment : 1 x LED 57.05 W / 288 lm | |
| | | Synergy Lighting | |
| 4 | 16 | Order No. : !SPEW/R/3W/MT/OA | -- Emergency Lighting -- |
|  | | Luminaire name : Smart Pro Emergency, DALI, Open Area, Black, Round | |
| | | Equipment : 1 x LED 2.24 W / 123 lm | |

Result evaluation area

Calculation algorithm used: Direct component
 Maintenance factor: 0.8

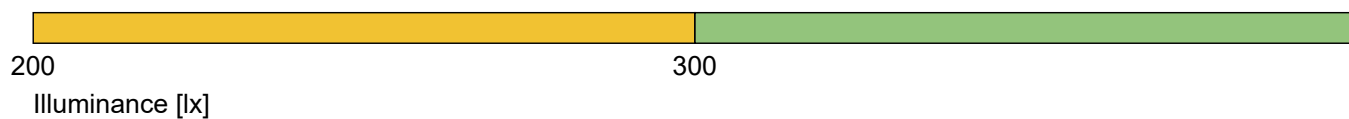
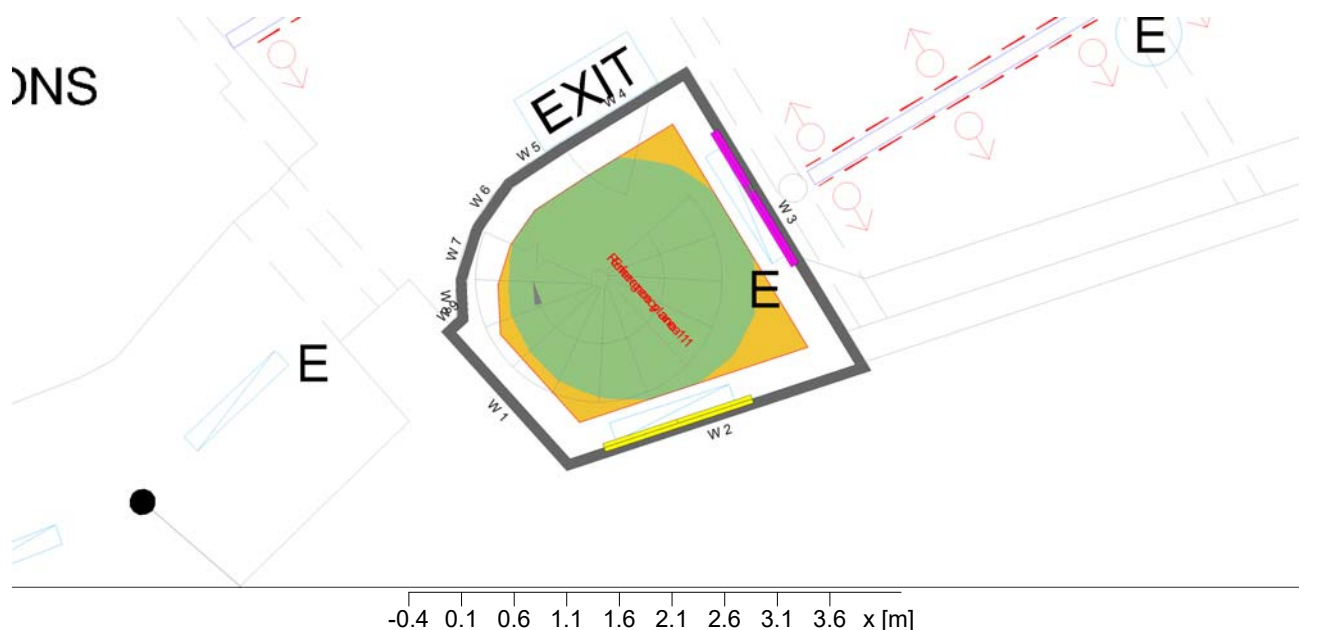
Emergency area:

| No. | Default[lx] | Emin[lx] | Surface Emax[lx] | Diversity | Height |
|------------------|-------------|----------|---------------------|-----------|--------|
| Emergency area 1 | | | | | |
| 1 | 1.0 | 0.0 | 9.0 | --- | 0.00 |

3 Room 3

3.1 Summary, Room 3

3.1.1 Result overview, Evaluation area 1



General



| | |
|---|---|
| Calculation algorithm used | Average indirect fraction |
| Height of luminaire plane | 2.40 m |
| Maintenance factor | 0.80 |
| Total luminous flux of all lamps | 10966.70 lm |
| Total power | 114.1 W |
| Total power per area (7.91 m ²) | 14.43 W/m ² (4.59 W/m ² /100lx) |

Evaluation area 1

Reference plane 1.1

| | |
|----------------|------------|
| | Horizontal |
| Em | 314 lx |
| Emin | 241 lx |
| Emin/Em (Uo) | 0.77 |
| Emin/Emax (Ud) | 0.67 |
| Position | 0.00 m |

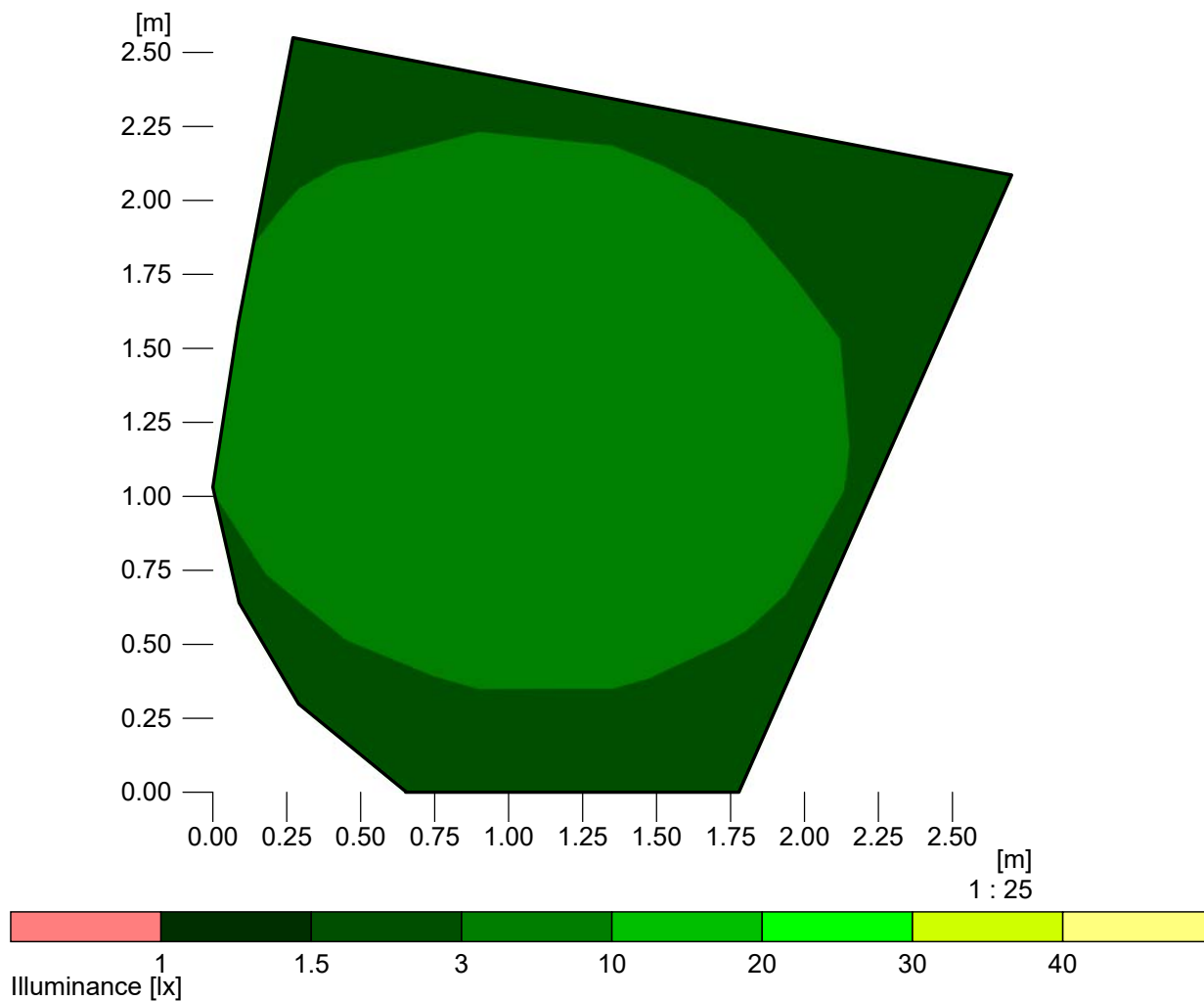
Type No. Make

| | | | |
|---|---|------------------------------------|--------------------------------|
| | | Synergy Commercial Lighting | |
| 1 | 1 | Order No. | : !CSM/15/F/5300/4K8 |
|  | | Luminaire name | : Cosmo |
| | | Equipment | : 1 x LED 57.05 W / 5483.35 lm |
| 2 | 1 | Order No. | : !CSM/15/F/5300/4K8/EM |
|  | | Luminaire name | : Cosmo |
| | | Equipment | : 1 x LED 57.05 W / 5483.35 lm |

3 Room 3

3.2 Calculation results, Room 3

3.2.1 Boundary line, Emergency area 1 (E)



| | | |
|------------------------------|------------------------------------|--|
| Required minimum illuminance | | : 1 lx |
| Minimum illuminance | E _{min} | : 1.5 lx |
| Maximum illuminance | E _{max} | : 4 lx |
| Diversity | E _{min} /E _{max} | : 1 : 2.59 (0.38) (Threshold value 1:40) |
| Height | | : 0 m |
| Calculation algorithm used | | : Direct component |
| Maintenance factor | | : 0.8 |

Object : Seven Dials Warehouse - LG
Installation : Proposed New Lighting
Project number : IJF01310-R1
Date : 16.02.2021

3.2 Summary, Room 3

3.2.2 Result overview (emergency lighting)

Type No. Make

Synergy Commercial Lighting
2 1 Order No. : !CSM/15/F/5300/4K8/EM
Luminaire name : Cosmo
Equipment : 1 x LED 57.05 W / 288 lm

Result evaluation area

Calculation algorithm used: Direct component
Maintenance factor: 0.8

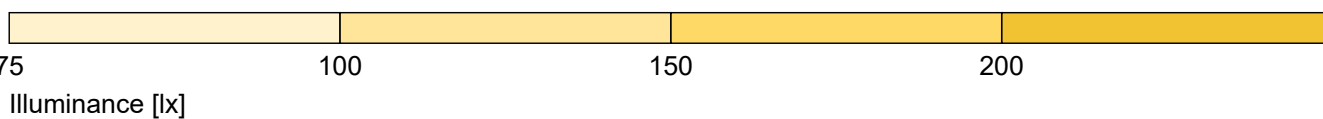
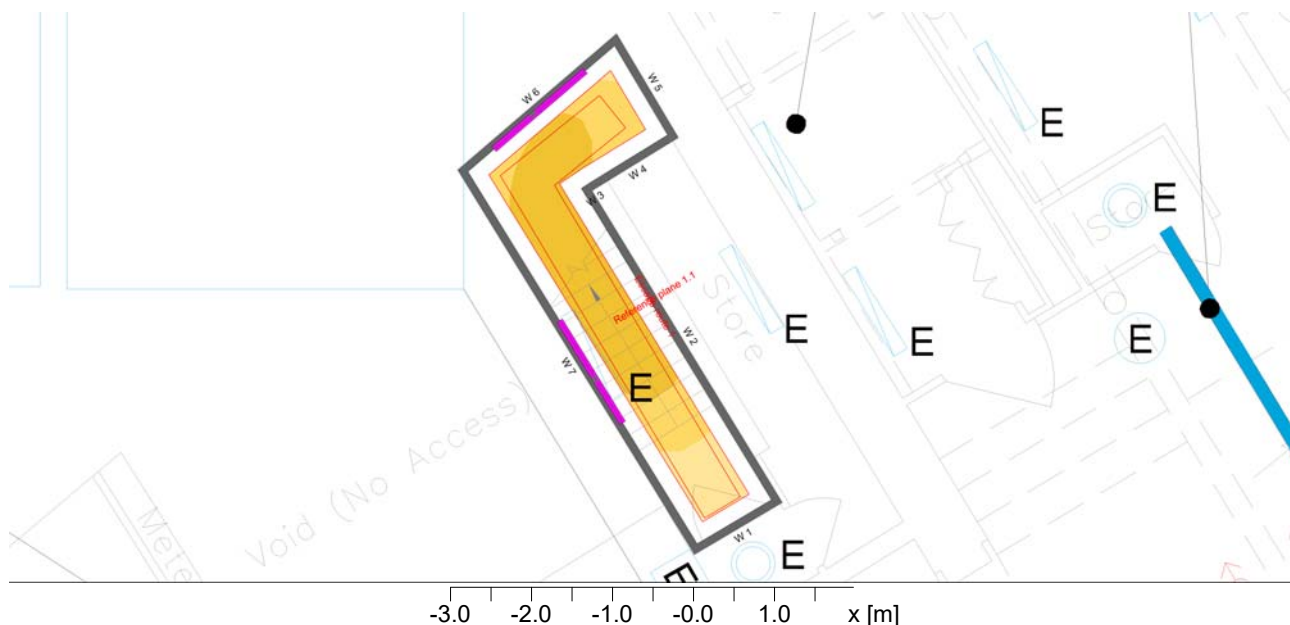
Emergency area:

| No. | Default[lx] | Emin[lx] | Surface Emax[lx] | Diversity | Height |
|------------------|-------------|----------|---------------------|-----------|--------|
| Emergency area 1 | | | | | |
| 1 | 1.0 | 1.5 | 4.0 | 1: 2.59 | 0.00 |

4 Room 4

4.1 Summary, Room 4

4.1.1 Result overview, Evaluation area 1



General

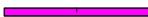
| | |
|---|---|
| Calculation algorithm used | Average indirect fraction |
| Height of luminaire plane | 2.40 m |
| Maintenance factor | 0.80 |
| Total luminous flux of all lamps | 10966.70 lm |
| Total power | 114.1 W |
| Total power per area (7.38 m ²) | 15.45 W/m ² (7.97 W/m ² /100lx) |

Evaluation area 1

Reference plane 1.1

| | |
|----------------|------------|
| | Horizontal |
| Em | 194 lx |
| Emin | 97 lx |
| Emin/Em (Uo) | 0.50 |
| Emin/Emax (Ud) | 0.41 |
| Position | 0.00 m |

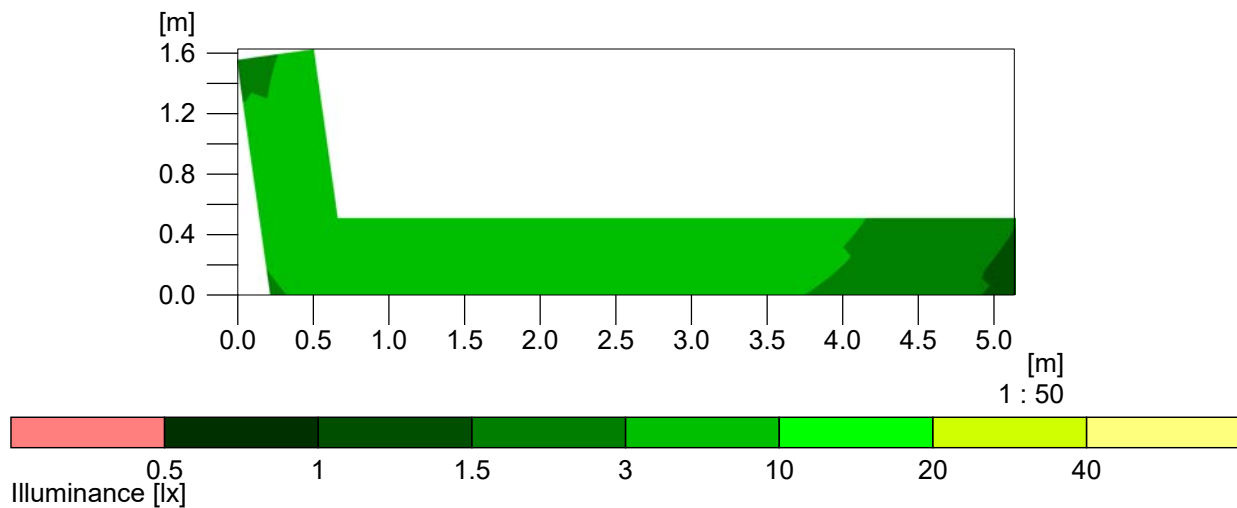
Type No. Make

| | |
|---|--|
| | Synergy Commercial Lighting |
| 2 | Order No. : !CSM/15/F/5300/4K8/EM |
| 2 | Luminaire name : Cosmo |
|  | Equipment : 1 x LED 57.05 W / 5483.35 lm |

4 Room 4

4.2 Calculation results, Room 4

4.2.1 Boundary line, Escape route 1 (E)



| | | |
|---|------------------------------------|--|
| Required minimum illuminance (central axis) | | : 1 lx |
| Minimum illuminance (central axis) | E _{min} | : 1.4 lx |
| Maximum illuminance (central axis) | E _{max} | : 5.4 lx |
| Diversity | E _{min} /E _{max} | : 1 : 3.86 (0.26) (Threshold value 1:40) |
| Minimum illuminance | E _{min} | : 1.3 lx |
| Maximum illuminance | E _{max} | : 5.7 lx |
| Diversity | E _{min} /E _{max} | : 1 : 4.55 (0.22) (Threshold value 1:40) |
| Height | | : 0 m |
| Calculation algorithm used | | : Direct component |
| Maintenance factor | | : 0.8 |

Object : Seven Dials Warehouse - LG
 Installation : Proposed New Lighting
 Project number : IJF01310-R1
 Date : 16.02.2021

4.2 Summary, Room 4

4.2.2 Result overview (emergency lighting)

Type No. Make

Synergy Commercial Lighting
 2 2 Order No. : !CSM/15/F/5300/4K8/EM
 Luminaire name : Cosmo
 Equipment : 1 x LED 57.05 W / 288 lm

Result evaluation area

Calculation algorithm used: Direct component
 Maintenance factor: 0.8

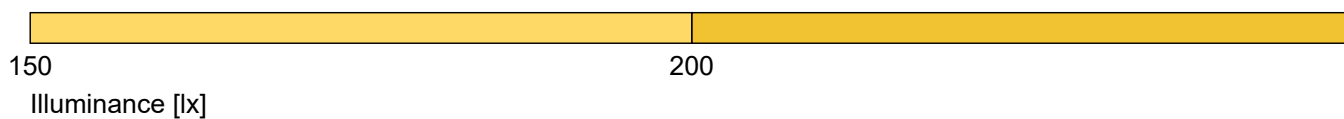
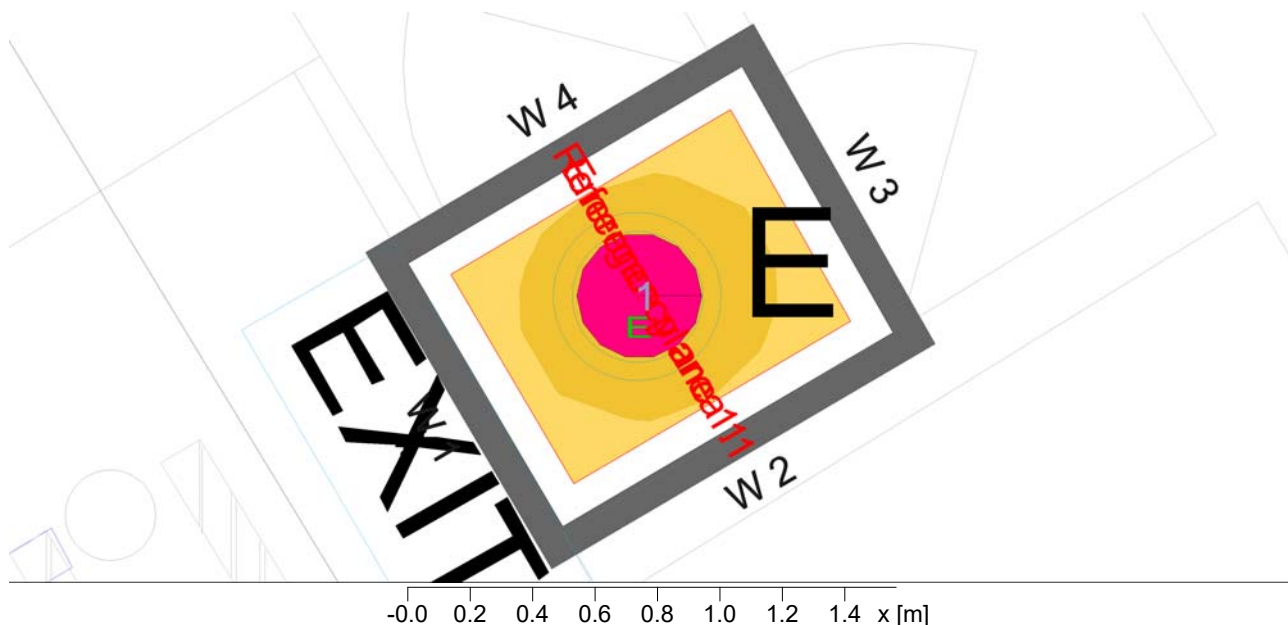
Escape routes:

| No. | Default[lx] | Central axis | | | Surface | | Diversity | Height |
|----------------|-------------|--------------|----------|-----------|----------|----------|-----------|--------|
| | | Emin[lx] | Emax[lx] | Diversity | Emin[lx] | Emax[lx] | | |
| Escape route 1 | | | | | | | | |
| 1 | 1.0 | 1.4 | 5.4 | 1: 3.99 | 1.3 | 5.7 | 1: 4.55 | 0.00 |

5 Room 5

5.1 Summary, Room 5

5.1.1 Result overview, Evaluation area 1



General

| | |
|---|--|
| Calculation algorithm used | Average indirect fraction |
| Height of luminaire plane | 2.80 m |
| Maintenance factor | 0.80 |
| Total luminous flux of all lamps | 3480.76 lm |
| Total power | 30.6 W |
| Total power per area (1.20 m ²) | 25.39 W/m ² (13.16 W/m ² /100lx) |

Evaluation area 1

Reference plane 1.1

| | |
|----------------|------------|
| | Horizontal |
| Em | 193 lx |
| Emin | 183 lx |
| Emin/Em (Uo) | 0.95 |
| Emin/Emax (Ud) | 0.91 |
| Position | 0.00 m |

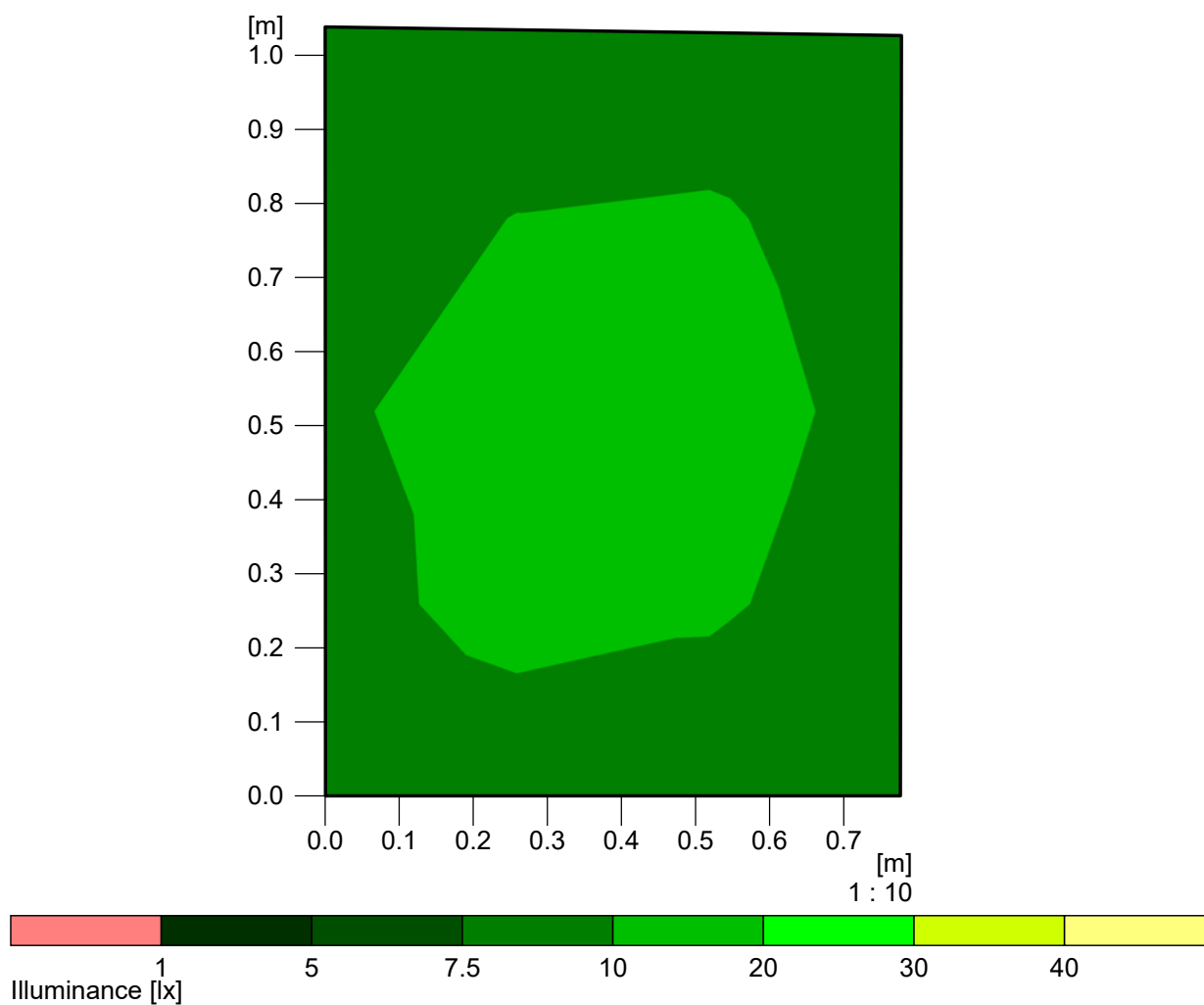
Type No. Make

| | | |
|-----|--|---|
| 3 1 | | Synergy Lighting |
| | | Order No. : !DCS/420/F/3500/WB/EM |
| | | Luminaire name : Discus 420mm, White Base, 3500lmn, 4K8 |
| | | Equipment : 1 x C420WB 30.58 W / 3480.76 lm |

5 Room 5

5.2 Calculation results, Room 5

5.2.1 Boundary line, Emergency area 1 (E)




| | | |
|------------------------------|------------------------------------|--|
| Required minimum illuminance | | : 1 lx |
| Minimum illuminance | E _{min} | : 9.2 lx |
| Maximum illuminance | E _{max} | : 10 lx |
| Diversity | E _{min} /E _{max} | : 1 : 1.12 (0.90) (Threshold value 1:40) |
| Height | | : 0 m |
| Calculation algorithm used | | : Direct component |
| Maintenance factor | | : 0.8 |

Object : Seven Dials Warehouse - LG
 Installation : Proposed New Lighting
 Project number : IJF01310-R1
 Date : 16.02.2021

5.2 Summary, Room 5

5.2.2 Result overview (emergency lighting)

Type No. Make

3 1 **Synergy Lighting**
 Order No. : !DCS/420/F/3500/WB/EM
 Luminaire name : Discus 420mm, White Base, 3500lmn, 4K8
 Equipment : 1 x C420WB 30.58 W / 300 lm

Result evaluation area

Calculation algorithm used: Direct component
 Maintenance factor: 0.8

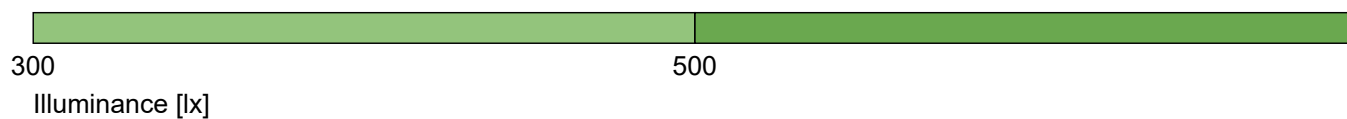
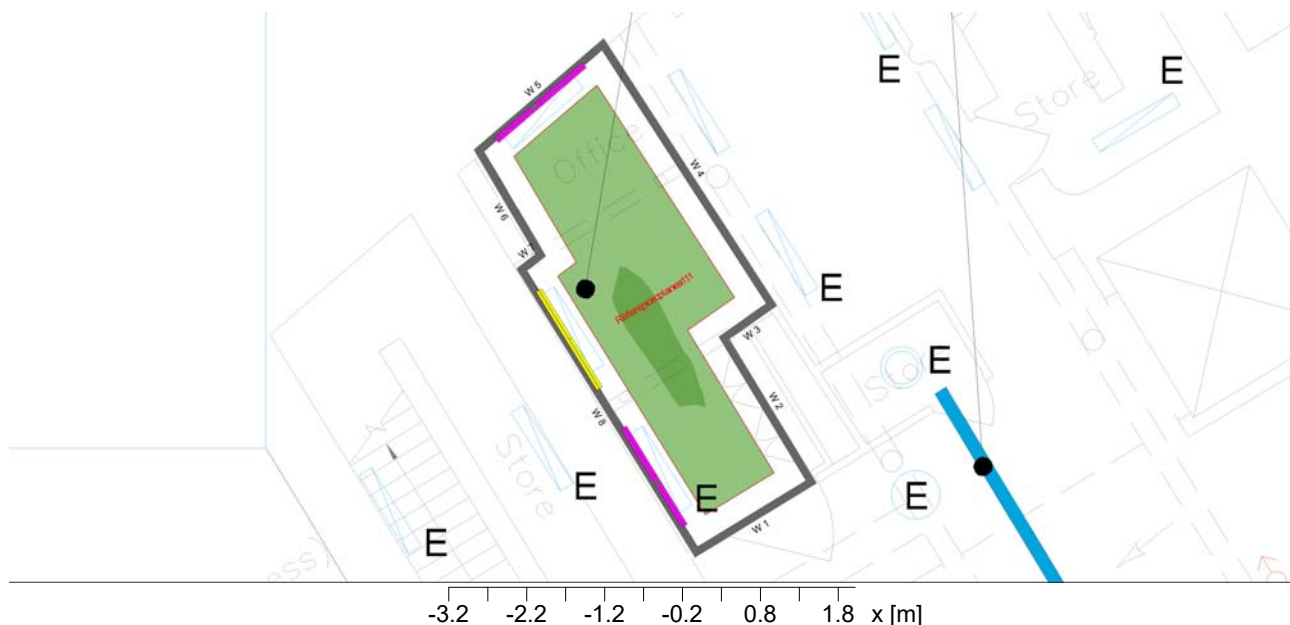
Emergency area:

| No. | Default[lx] | Emin[lx] | Surface Emax[lx] | Diversity | Height |
|------------------|-------------|----------|---------------------|-----------|--------|
| Emergency area 1 | | | | | |
| 1 | 1.0 | 9.2 | 10.2 | 1: 1.12 | 0.00 |

6 Room 6

6.1 Summary, Room 6

6.1.1 Result overview, Evaluation area 1



General



| | |
|--|---|
| Calculation algorithm used | Average indirect fraction |
| Height of luminaire plane | 2.40 m |
| Maintenance factor | 0.80 |
| Total luminous flux of all lamps | 16450.05 lm |
| Total power | 171.1 W |
| Total power per area (11.82 m ²) | 14.48 W/m ² (3.33 W/m ² /100lx) |

Evaluation area 1

Reference plane 1.1

| | |
|----------------|------------|
| | Horizontal |
| Em | 435 lx |
| Emin | 344 lx |
| Emin/Em (Uo) | 0.79 |
| Emin/Emax (Ud) | 0.71 |
| Position | 0.75 m |

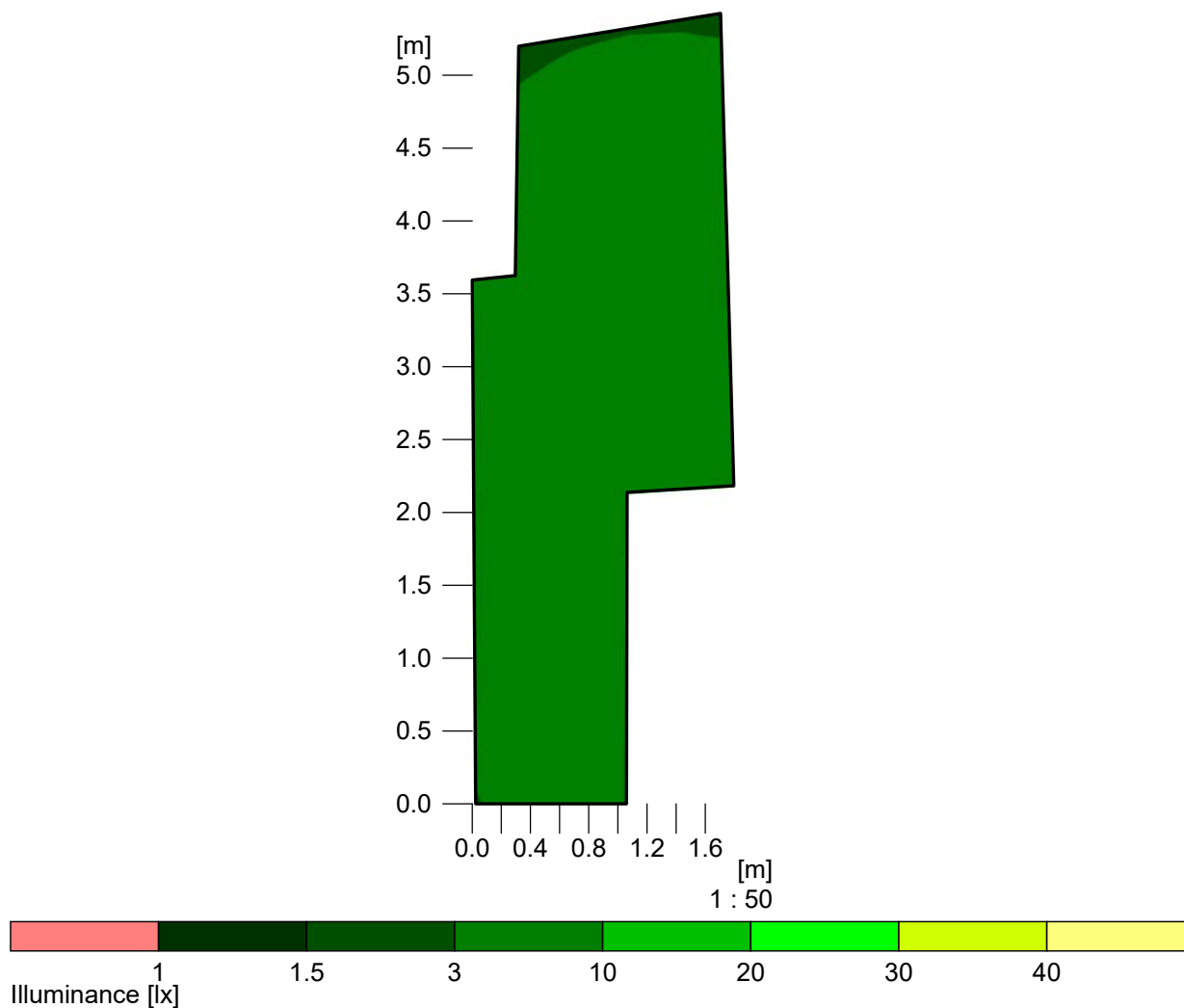
Type No./Make

| | | | |
|---|---|------------------------------------|--------------------------------|
| | | Synergy Commercial Lighting | |
| 1 | 1 | Order No. | : !CSM/15/F/5300/4K8 |
|  | | Luminaire name | : Cosmo |
| | | Equipment | : 1 x LED 57.05 W / 5483.35 lm |
| 2 | 2 | Order No. | : !CSM/15/F/5300/4K8/EM |
|  | | Luminaire name | : Cosmo |
| | | Equipment | : 1 x LED 57.05 W / 5483.35 lm |

6 Room 6

6.2 Calculation results, Room 6

6.2.1 Boundary line, Emergency area 1 (E)




| | | |
|------------------------------|------------------------------------|--|
| Required minimum illuminance | | : 1 lx |
| Minimum illuminance | E _{min} | : 2.5 lx |
| Maximum illuminance | E _{max} | : 5 lx |
| Diversity | E _{min} /E _{max} | : 1 : 2.00 (0.50) (Threshold value 1:40) |
| Height | | : 0 m |
| Calculation algorithm used | | : Direct component |
| Maintenance factor | | : 0.8 |

Object : Seven Dials Warehouse - LG
 Installation : Proposed New Lighting
 Project number : IJF01310-R1
 Date : 16.02.2021

6.2 Summary, Room 6

6.2.2 Result overview (emergency lighting)

Type No. Make

| | | | |
|---|---|------------------------------------|----------------------------|
| | | Synergy Commercial Lighting | |
| 2 | 2 | Order No. | : !CSM/15/F/5300/4K8/EM |
|  | | Luminaire name | : Cosmo |
| | | Equipment | : 1 x LED 57.05 W / 288 lm |

Result evaluation area

Calculation algorithm used: Direct component
 Maintenance factor: 0.8

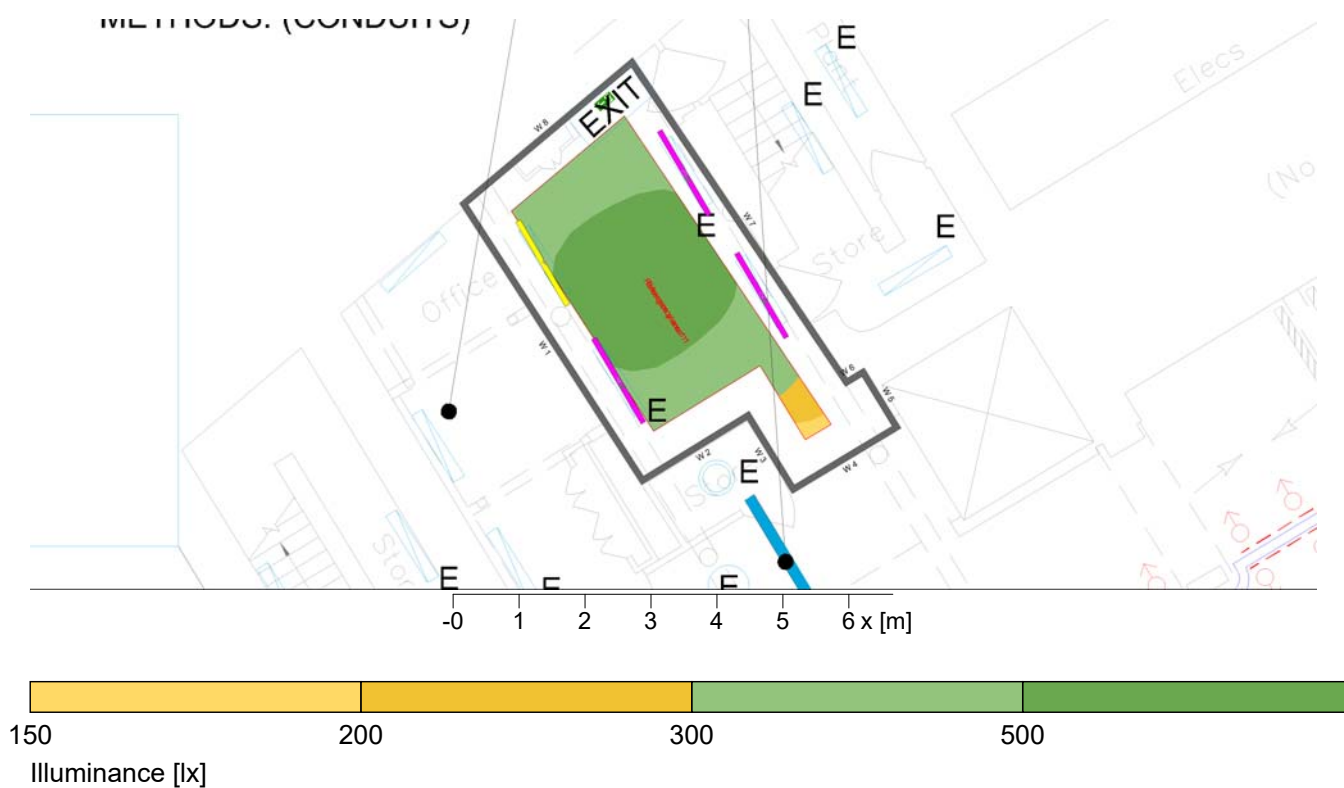
Emergency area:

| No. | Default[lx] | Emin[lx] | Surface Emax[lx] | Diversity | Height |
|------------------|-------------|----------|---------------------|-----------|--------|
| Emergency area 1 | | | | | |
| 1 | 1.0 | 2.5 | 5.0 | 1: 2.00 | 0.00 |

7 Room 7

7.1 Summary, Room 7

7.1.1 Result overview, Evaluation area 1



General



| | |
|--|---|
| Calculation algorithm used | Average indirect fraction |
| Maintenance factor | 0.80 |
| Total luminous flux of all lamps | 22083.40 lm |
| Total power | 231.2 W |
| Total power per area (18.87 m ²) | 12.25 W/m ² (2.65 W/m ² /100lx) |

Evaluation area 1

Reference plane 1.1

| | |
|----------------|------------|
| | Horizontal |
| Em | 462 lx |
| Emin | 185 lx |
| Emin/Em (Uo) | 0.40 |
| Emin/Emax (Ud) | 0.35 |
| Position | 0.00 m |

Type No. Make


| | | | |
|---|---|------------------------------------|--------------------------------|
| | | Synergy Commercial Lighting | |
| 1 | 1 | Order No. | : !CSM/15/F/5300/4K8 |
|  | | Luminaire name | : Cosmo |
| | | Equipment | : 1 x LED 57.05 W / 5483.35 lm |
| 2 | 3 | Order No. | : !CSM/15/F/5300/4K8/EM |
|  | | Luminaire name | : Cosmo |
| | | Equipment | : 1 x LED 57.05 W / 5483.35 lm |

Object : Seven Dials Warehouse - LG
Installation : Proposed New Lighting
Project number : IJF01310-R1
Date : 16.02.2021

7 Room 7

7.1 Summary, Room 7

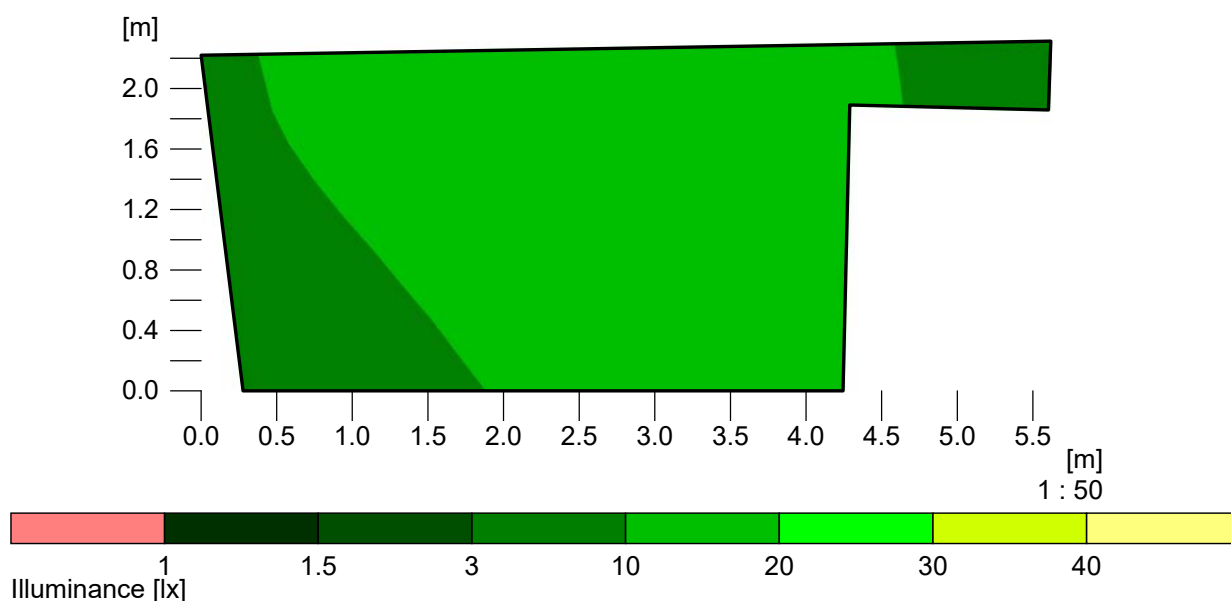
7.1.1 Result overview, Evaluation area 1

| | | | |
|---|---|-------------------------|---------------------------|
| 5 | 1 | Synergy Lighting | |
|  | | Order No. | : ANA_NM_3W_MT_SUS |
| | | Luminaire name | : Anaconda |
| | | Equipment | : 1 x 1W LED 3 W / 150 lm |

7 Room 7

7.2 Calculation results, Room 7

7.2.1 Boundary line, Emergency area 1 (E)



| | | |
|------------------------------|------------------------------------|--|
| Required minimum illuminance | | : 1 lx |
| Minimum illuminance | E _{min} | : 3.6 lx |
| Maximum illuminance | E _{max} | : 16 lx |
| Diversity | E _{min} /E _{max} | : 1 : 4.42 (0.23) (Threshold value 1:40) |
| Height | | : 0 m |
| Calculation algorithm used | | : Direct component |
| Maintenance factor | | : 0.8 |

Object : Seven Dials Warehouse - LG
Installation : Proposed New Lighting
Project number : IJF01310-R1
Date : 16.02.2021

7.2 Summary, Room 7

7.2.2 Result overview (emergency lighting)

Type No. Make

| | | |
|---|---|--------------------------------------|
| 2 | 3 | Synergy Commercial Lighting |
| | | Order No. : !CSM/15/F/5300/4K8/EM |
| | | Luminaire name : Cosmo |
| | | Equipment : 1 x LED 57.05 W / 288 lm |

Result evaluation area

Calculation algorithm used: Direct component
Maintenance factor: 0.8

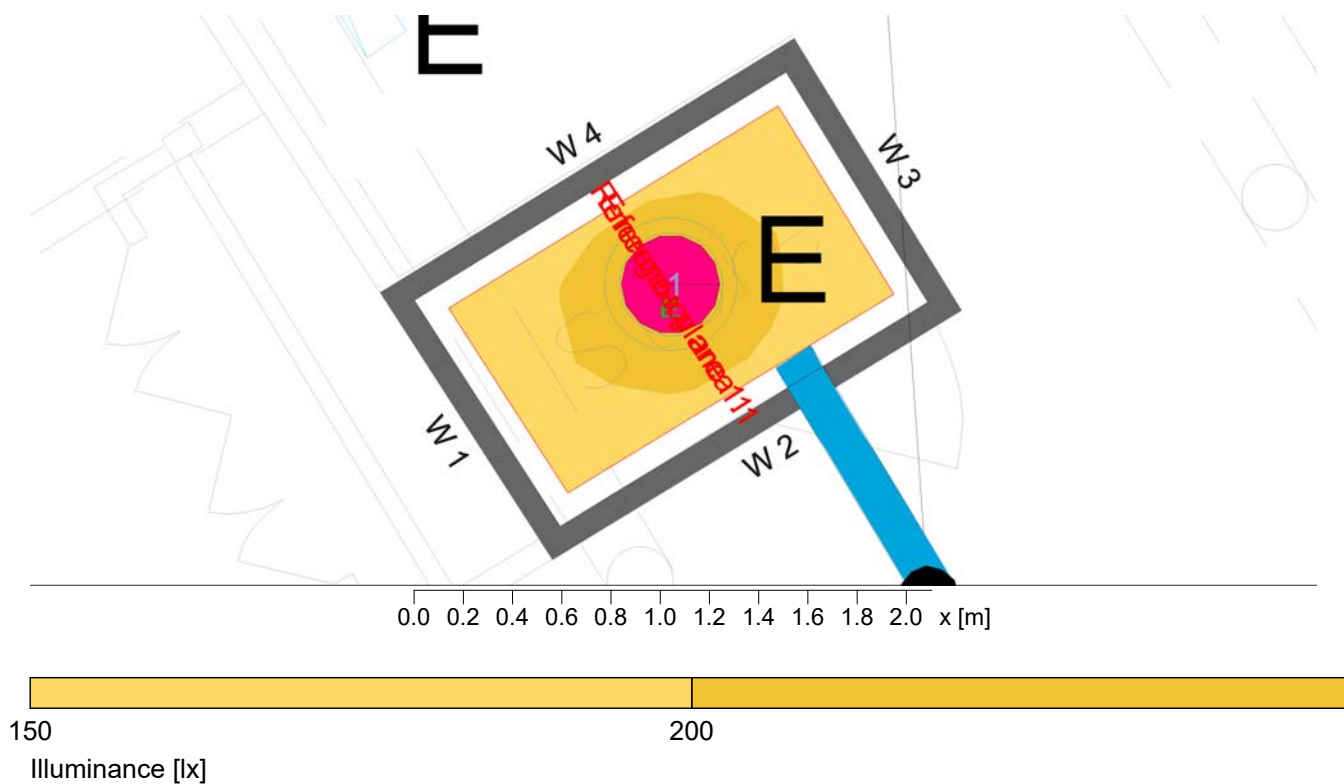
Emergency area:

| No. | Default[lx] | Emin[lx] | Surface Emax[lx] | Diversity | Height |
|------------------|-------------|----------|---------------------|-----------|--------|
| Emergency area 1 | | | | | |
| 1 | 1.0 | 3.6 | 15.8 | 1: 4.42 | 0.00 |

8 Room 8

8.1 Summary, Room 8

8.1.1 Result overview, Evaluation area 1



General

| | |
|---|---|
| Calculation algorithm used | Average indirect fraction |
| Height of luminaire plane | 2.80 m |
| Maintenance factor | 0.80 |
| Total luminous flux of all lamps | 3480.76 lm |
| Total power | 30.6 W |
| Total power per area (1.92 m ²) | 15.89 W/m ² (8.48 W/m ² /100lx) |

Evaluation area 1

Reference plane 1.1

| | |
|----------------|------------|
| | Horizontal |
| Em | 187 lx |
| Emin | 171 lx |
| Emin/Em (Uo) | 0.91 |
| Emin/Emax (Ud) | 0.85 |
| Position | 0.00 m |

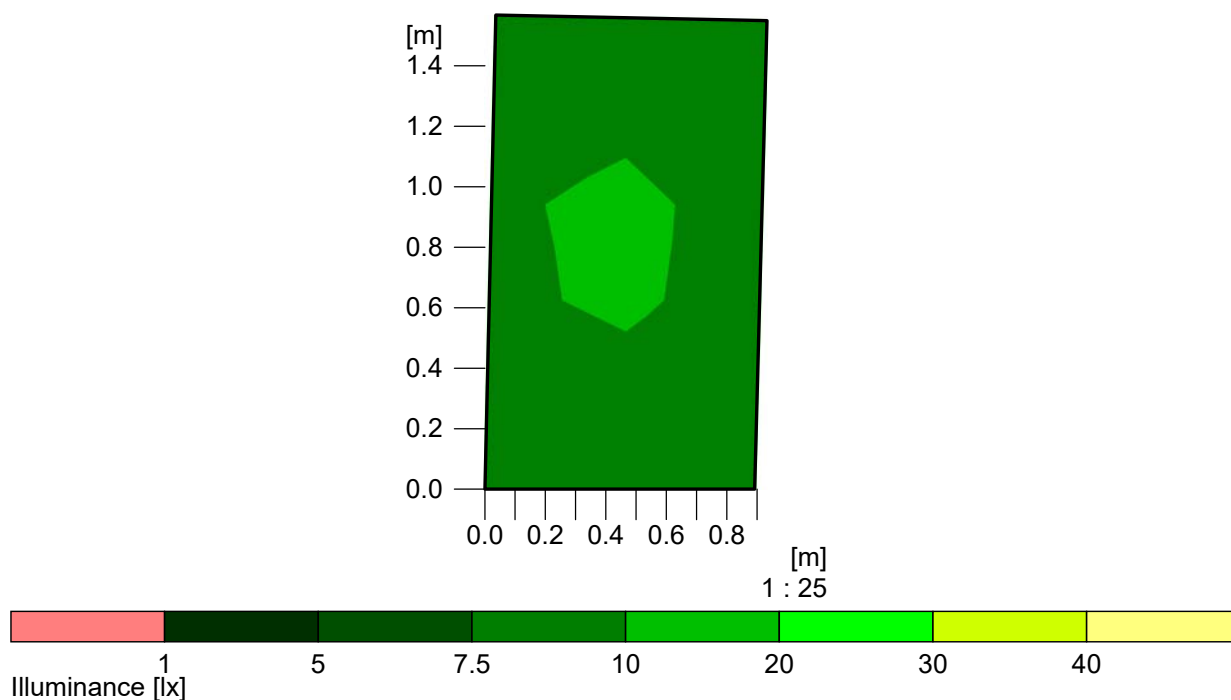
Type No. Make

| | | |
|---|---|---|
| 3 | 1 | Synergy Lighting |
| | | Order No. : !DCS/420/F/3500/WB/EM |
| | | Luminaire name : Discus 420mm, White Base, 3500lmn, 4K8 |
| | | Equipment : 1 x C420WB 30.58 W / 3480.76 lm |

8 Room 8

8.2 Calculation results, Room 8

8.2.1 Boundary line, Emergency area 1 (E)




| | | |
|------------------------------|------------------------------------|--|
| Required minimum illuminance | | : 1 lx |
| Minimum illuminance | E _{min} | : 8.2 lx |
| Maximum illuminance | E _{max} | : 10 lx |
| Diversity | E _{min} /E _{max} | : 1 : 1.25 (0.80) (Threshold value 1:40) |
| Height | | : 0 m |
| Calculation algorithm used | | : Direct component |
| Maintenance factor | | : 0.8 |

Object : Seven Dials Warehouse - LG
Installation : Proposed New Lighting
Project number : IJF01310-R1
Date : 16.02.2021

8.2 Summary, Room 8

8.2.2 Result overview (emergency lighting)

Type No. Make

3 1 **Synergy Lighting**
 Order No. : !DCS/420/F/3500/WB/EM
Luminaire name : Discus 420mm, White Base, 3500lmn, 4K8
Equipment : 1 x C420WB 30.58 W / 300 lm

Result evaluation area

Calculation algorithm used: Direct component
Maintenance factor: 0.8

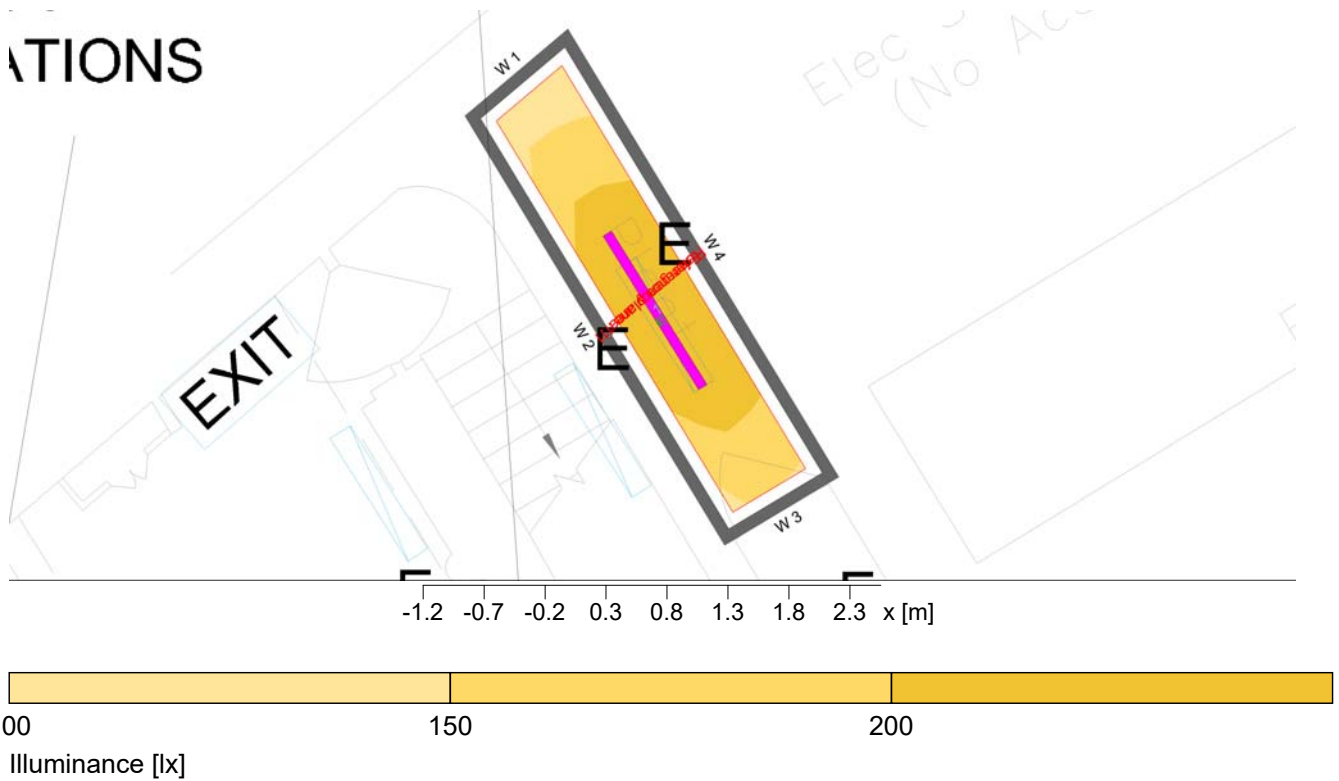
Emergency area:

| No. | Default[lx] | Emin[lx] | Surface Emax[lx] | Diversity | Height |
|------------------|-------------|----------|---------------------|-----------|--------|
| Emergency area 1 | | | | | |
| 1 | 1.0 | 8.2 | 10.2 | 1: 1.25 | 0.00 |

9 Room 9

9.1 Summary, Room 9

9.1.1 Result overview, Evaluation area 1



General

| | |
|---|---|
| Calculation algorithm used | Average indirect fraction |
| Height of luminaire plane | 2.80 m |
| Maintenance factor | 0.80 |
| Total luminous flux of all lamps | 5483.35 lm |
| Total power | 57.0 W |
| Total power per area (3.58 m ²) | 15.95 W/m ² (8.32 W/m ² /100lx) |

Evaluation area 1

Reference plane 1.1

| | |
|----------------|------------|
| | Horizontal |
| Em | 192 lx |
| Emin | 115 lx |
| Emin/Em (Uo) | 0.60 |
| Emin/Emax (Ud) | 0.47 |
| Position | 0.00 m |

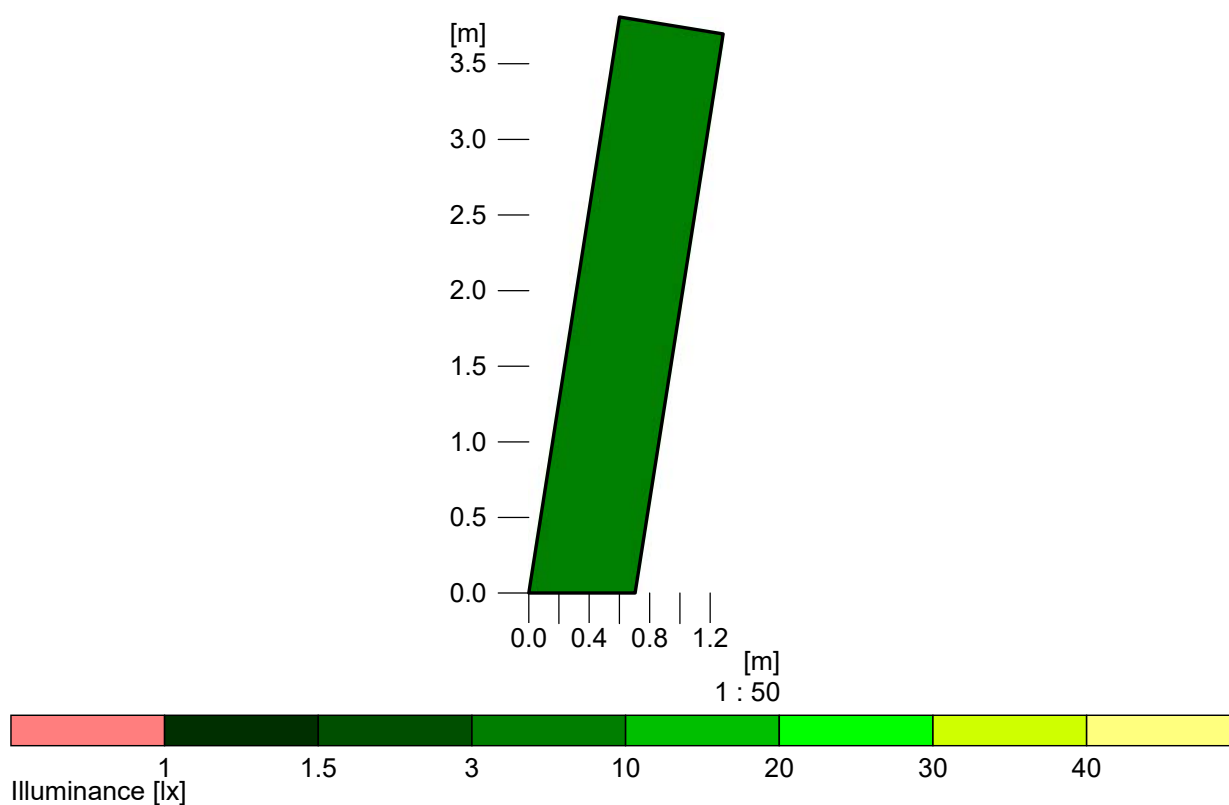
Type No. Make

| | | |
|---|---|--|
| 2 | 1 | Synergy Commercial Lighting |
| | | Order No. : !CSM/15/F/5300/4K8/EM |
| | | Luminaire name : Cosmo |
| | | Equipment : 1 x LED 57.05 W / 5483.35 lm |

9 Room 9

9.2 Calculation results, Room 9

9.2.1 Boundary line, Emergency area 1 (E)



| | | |
|------------------------------|------------------------------------|--|
| Required minimum illuminance | | : 1 lx |
| Minimum illuminance | E _{min} | : 3.3 lx |
| Maximum illuminance | E _{max} | : 8.7 lx |
| Diversity | E _{min} /E _{max} | : 1 : 2.61 (0.38) (Threshold value 1:40) |
| Height | | : 0 m |
| Calculation algorithm used | | : Direct component |
| Maintenance factor | | : 0.8 |

Object : Seven Dials Warehouse - LG
Installation : Proposed New Lighting
Project number : IJF01310-R1
Date : 16.02.2021

9.2 Summary, Room 9

9.2.2 Result overview (emergency lighting)

Type No. Make

Synergy Commercial Lighting
2 1 Order No. : !CSM/15/F/5300/4K8/EM
Luminaire name : Cosmo
Equipment : 1 x LED 57.05 W / 288 lm

Result evaluation area

Calculation algorithm used: Direct component
Maintenance factor: 0.8

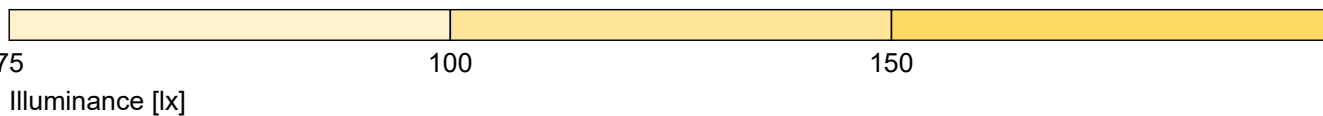
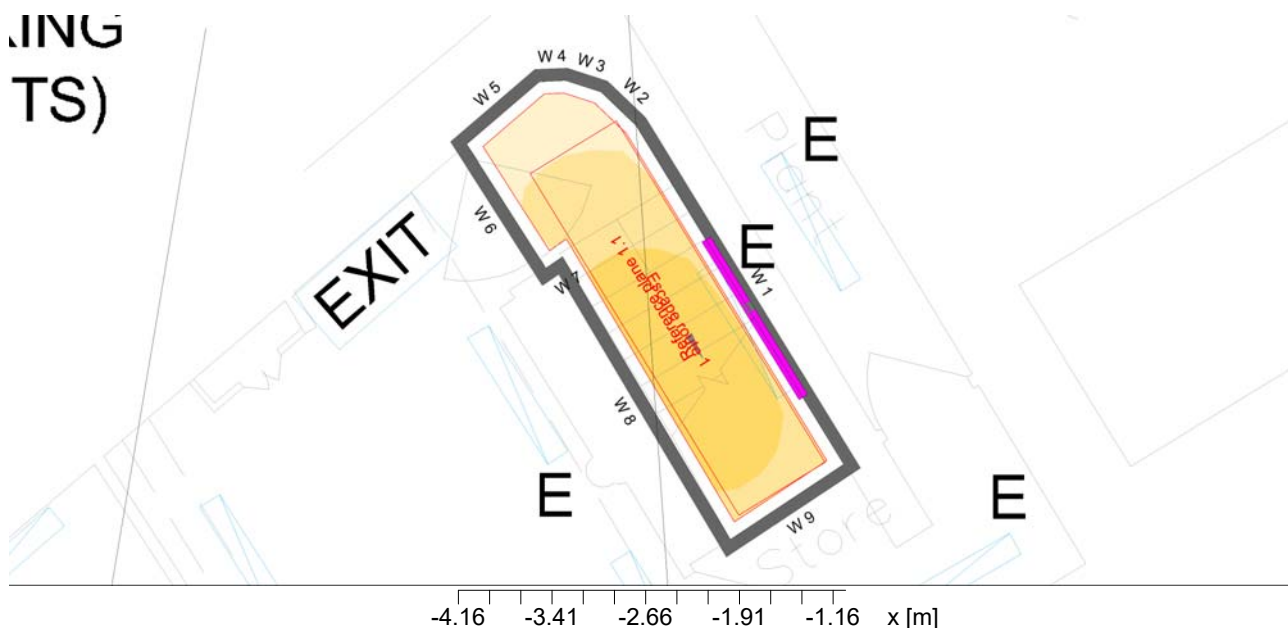
Emergency area:

| No. | Default[lx] | Emin[lx] | Surface Emax[lx] | Diversity | Height |
|-----------------------|-------------|----------|---------------------|-----------|--------|
| Emergency area 1 1 | 1.0 | 3.3 | 8.7 | 1: 2.61 | 0.00 |

10 Room 10

10.1 Summary, Room 10

10.1.1 Result overview, Evaluation area 1



General

| | |
|---|--|
| Calculation algorithm used | Average indirect fraction |
| Height of luminaire plane | 2.40 m |
| Maintenance factor | 0.80 |
| Total luminous flux of all lamps | 5483.35 lm |
| Total power | 57.0 W |
| Total power per area (4.22 m ²) | 13.52 W/m ² (10.05 W/m ² /100lx) |

Evaluation area 1

Reference plane 1.1

| | |
|----------------|------------|
| | Horizontal |
| Em | 134 lx |
| Emin | 76 lx |
| Emin/Em (Uo) | 0.56 |
| Emin/Emax (Ud) | 0.43 |
| Position | 0.00 m |

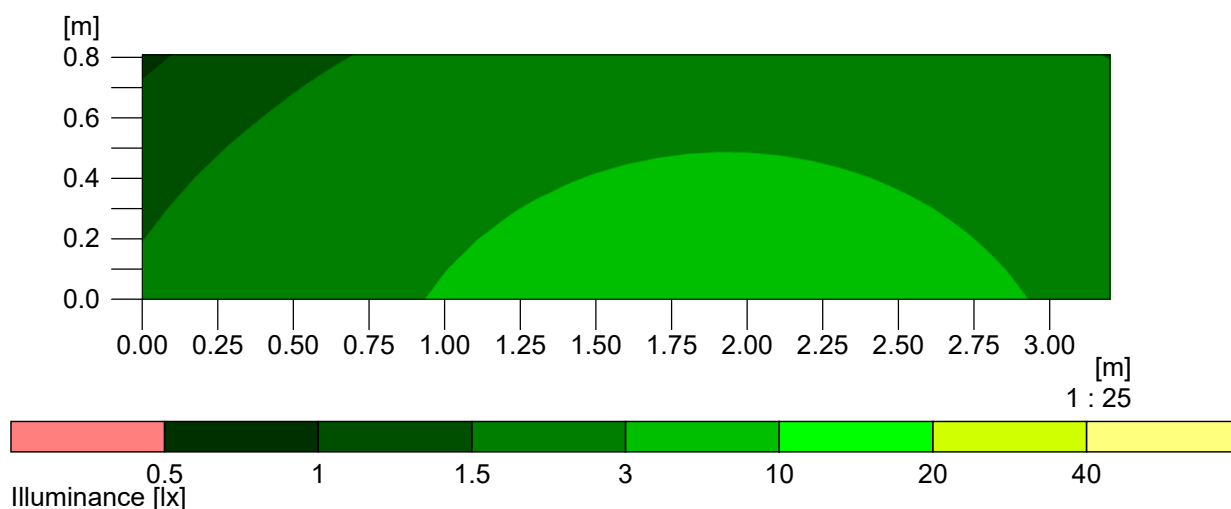
Type No./Make

| | |
|---|--|
| | Synergy Commercial Lighting |
| 2 | Order No. : !CSM/15/F/5300/4K8/EM |
| 1 | Luminaire name : Cosmo |
| | Equipment : 1 x LED 57.05 W / 5483.35 lm |

10 Room 10

10.2 Calculation results, Room 10

10.2.1 Boundary line, Escape route 1 (E)



| | | |
|---|------------------------------------|--|
| Required minimum illuminance (central axis) | | : 1 lx |
| Minimum illuminance (central axis) | E _{min} | : 1.3 lx |
| Maximum illuminance (central axis) | E _{max} | : 3.2 lx |
| Diversity | E _{min} /E _{max} | : 1 : 2.46 (0.41) (Threshold value 1:40) |
| Minimum illuminance | E _{min} | : 0.9 lx |
| Maximum illuminance | E _{max} | : 3.9 lx |
| Diversity | E _{min} /E _{max} | : 1 : 4.17 (0.24) (Threshold value 1:40) |
| Height | | : 0 m |
| Calculation algorithm used | | : Direct component |
| Maintenance factor | | : 0.8 |

Object : Seven Dials Warehouse - LG
 Installation : Proposed New Lighting
 Project number : IJF01310-R1
 Date : 16.02.2021

10.2 Summary, Room 10

10.2.2 Result overview (emergency lighting)

Type No. Make

Synergy Commercial Lighting
 2 1 Order No. : !CSM/15/F/5300/4K8/EM
 Luminaire name : Cosmo
 Equipment : 1 x LED 57.05 W / 288 lm

Result evaluation area

Calculation algorithm used: Direct component
 Maintenance factor: 0.8

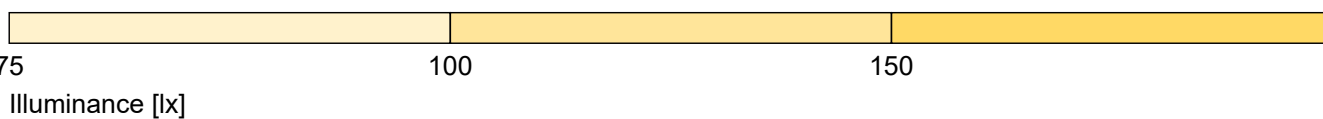
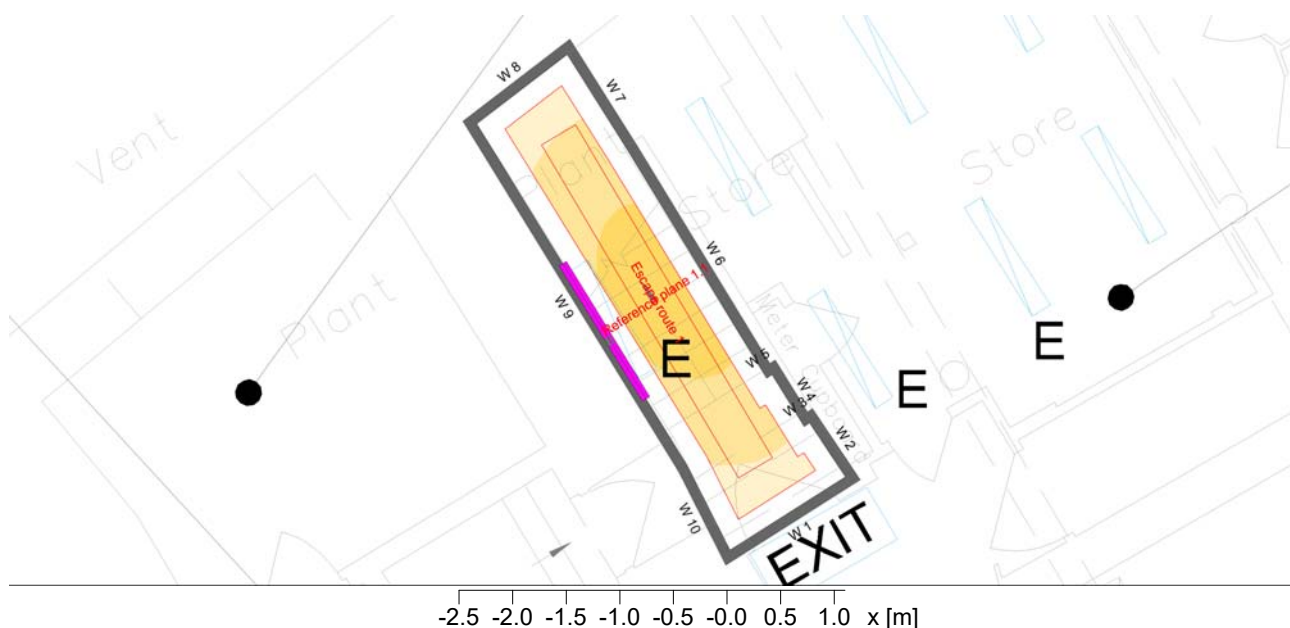
Escape routes:

| No. | Default[lx] | Emin[lx] | Central axis | | Emin[lx] | Surface | | Diversity | Height |
|----------------|-------------|----------|--------------|----------|----------|----------|----------|-----------|--------|
| | | | Emin[lx] | Emax[lx] | | Emin[lx] | Emax[lx] | | |
| Escape route 1 | | | | | | | | | |
| 1 | 1.0 | 1.3 | 3.2 | 1: 2.44 | 0.9 | 3.9 | 1: 4.17 | 0.00 | |

11 Room 11

11.1 Summary, Room 11

11.1.1 Result overview, Evaluation area 1



General

| | |
|---|---|
| Calculation algorithm used | Average indirect fraction |
| Height of luminaire plane | 2.40 m |
| Maintenance factor | 0.80 |
| Total luminous flux of all lamps | 5483.35 lm |
| Total power | 57.0 W |
| Total power per area (5.10 m ²) | 11.19 W/m ² (9.05 W/m ² /100lx) |

Evaluation area 1

Reference plane 1.1

| | |
|----------------|------------|
| | Horizontal |
| Em | 124 lx |
| Emin | 76 lx |
| Emin/Em (Uo) | 0.61 |
| Emin/Emax (Ud) | 0.45 |
| Position | 0.00 m |

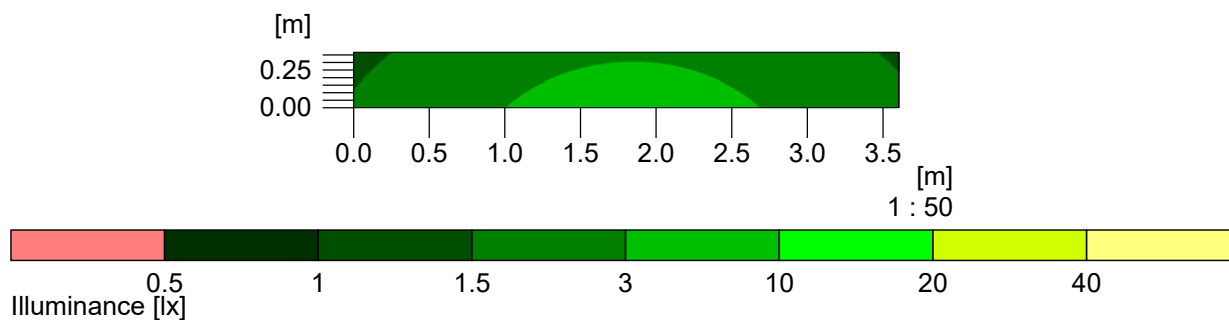
Type No.\Make

| | |
|---|--|
| | Synergy Commercial Lighting |
| 2 | Order No. : !CSM/15/F/5300/4K8/EM |
| 1 | Luminaire name : Cosmo |
| | Equipment : 1 x LED 57.05 W / 5483.35 lm |

11 Room 11

11.2 Calculation results, Room 11

11.2.1 Boundary line, Escape route 1 (E)



| | | |
|---|------------------------------------|--|
| Required minimum illuminance (central axis) | | : 1 lx |
| Minimum illuminance (central axis) | E _{min} | : 1.4 lx |
| Maximum illuminance (central axis) | E _{max} | : 3.3 lx |
| Diversity | E _{min} /E _{max} | : 1 : 2.36 (0.42) (Threshold value 1:40) |
| Minimum illuminance | E _{min} | : 1.2 lx |
| Maximum illuminance | E _{max} | : 3.6 lx |
| Diversity | E _{min} /E _{max} | : 1 : 2.92 (0.34) (Threshold value 1:40) |
| Height | | : 0 m |
| Calculation algorithm used | | : Direct component |
| Maintenance factor | | : 0.8 |

Object : Seven Dials Warehouse - LG
 Installation : Proposed New Lighting
 Project number : IJF01310-R1
 Date : 16.02.2021

11.2 Summary, Room 11

11.2.2 Result overview (emergency lighting)

Type No. Make

Synergy Commercial Lighting
 2 1 Order No. : !CSM/15/F/5300/4K8/EM
 Luminaire name : Cosmo
 Equipment : 1 x LED 57.05 W / 288 lm

Result evaluation area

Calculation algorithm used: Direct component
 Maintenance factor: 0.8

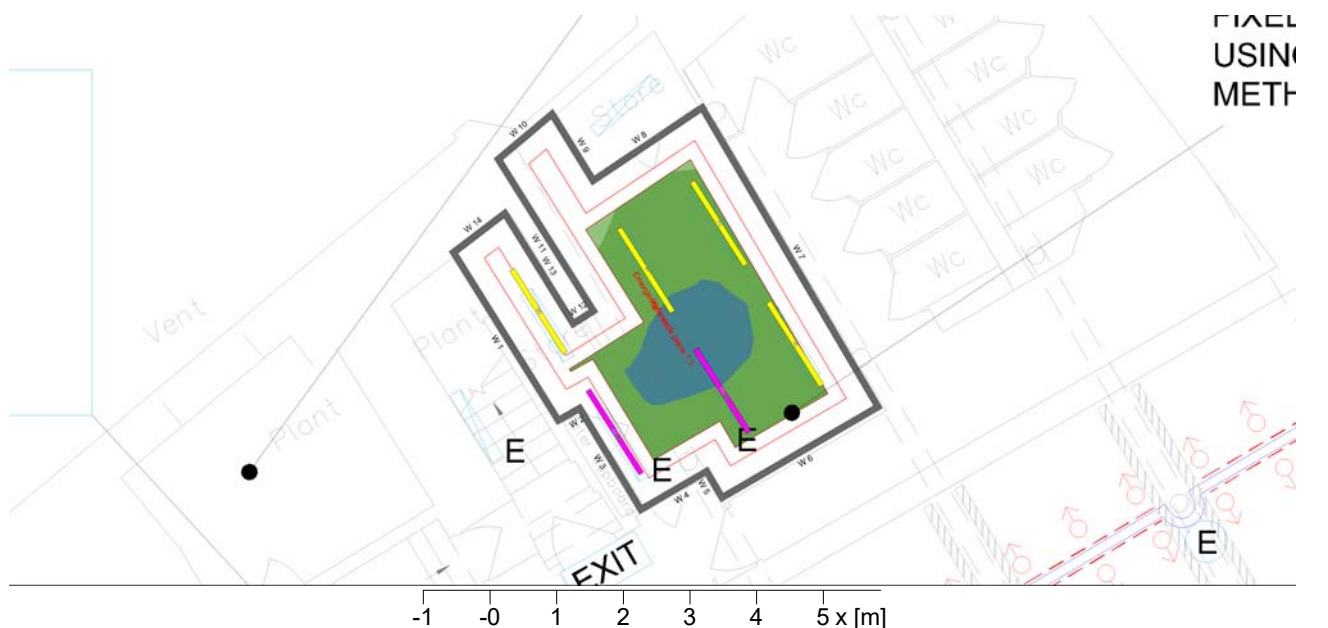
Escape routes:

| No. | Default[lx] | Emin[lx] | Central axis | | Emin[lx] | Surface | | Diversity | Height |
|----------------|-------------|----------|--------------|----------|----------|----------|----------|-----------|--------|
| | | | Emin[lx] | Emax[lx] | | Emin[lx] | Emax[lx] | | |
| Escape route 1 | | | | | | | | | |
| 1 | 1.0 | 1.4 | 3.3 | 1: 2.29 | 1.2 | 3.6 | 1: 2.92 | 0.00 | |

12 Room 12

12.1 Summary, Room 12

12.1.1 Result overview, Evaluation area 1



General



| | |
|--|---|
| Calculation algorithm used | Average indirect fraction |
| Height of luminaire plane | 2.80 m |
| Maintenance factor | 0.80 |
| Total luminous flux of all lamps | 32900.10 lm |
| Total power | 342.3 W |
| Total power per area (19.88 m ²) | 17.22 W/m ² (2.62 W/m ² /100lx) |

Evaluation area 1

Reference plane 1.1

| | |
|----------------|------------|
| | Horizontal |
| Em | 657 lx |
| Emin | 447 lx |
| Emin/Em (Uo) | 0.68 |
| Emin/Emax (Ud) | 0.60 |
| Position | 0.00 m |

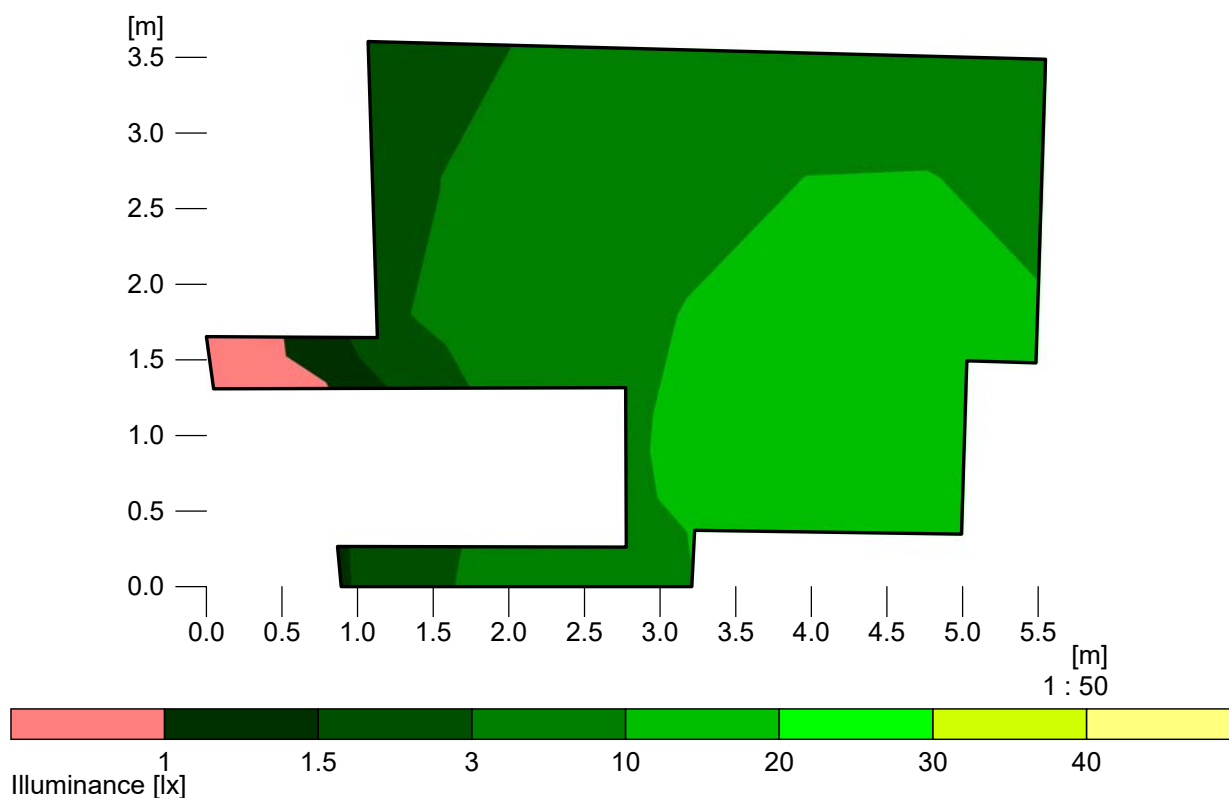
Type No. Make

| | | | |
|---|---|------------------------------------|--------------------------------|
| | | Synergy Commercial Lighting | |
| 1 | 4 | Order No. | : !CSM/15/F/5300/4K8 |
|  | | Luminaire name | : Cosmo |
| | | Equipment | : 1 x LED 57.05 W / 5483.35 lm |
| 2 | 2 | Order No. | : !CSM/15/F/5300/4K8/EM |
|  | | Luminaire name | : Cosmo |
| | | Equipment | : 1 x LED 57.05 W / 5483.35 lm |

12 Room 12

12.2 Calculation results, Room 12

12.2.1 Boundary line, Emergency area 1 (E)



| | | |
|------------------------------|------------------------------------|---|
| Required minimum illuminance | | : 1 lx |
| Minimum illuminance | E _{min} | : 0.6 lx |
| Maximum illuminance | E _{max} | : 14 lx |
| Diversity | E _{min} /E _{max} | : 1 : 25.80 (0.04) (Threshold value 1:40) |
| Height | | : 0 m |
| Calculation algorithm used | | : Direct component |
| Maintenance factor | | : 0.8 |

Object : Seven Dials Warehouse - LG
Installation : Proposed New Lighting
Project number : IJF01310-R1
Date : 16.02.2021

12.2 Summary, Room 12

12.2.2 Result overview (emergency lighting)

Type No. Make

Synergy Commercial Lighting
2 2 Order No. : !CSM/15/F/5300/4K8/EM
Luminaire name : Cosmo
Equipment : 1 x LED 57.05 W / 288 lm

Result evaluation area

Calculation algorithm used: Direct component
Maintenance factor: 0.8

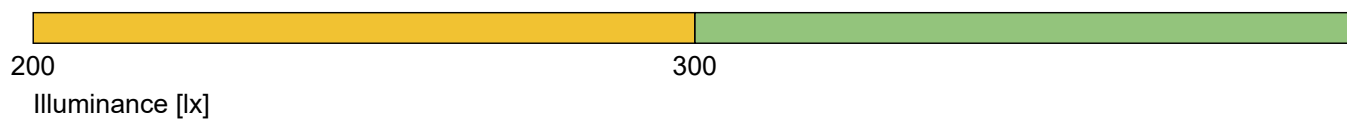
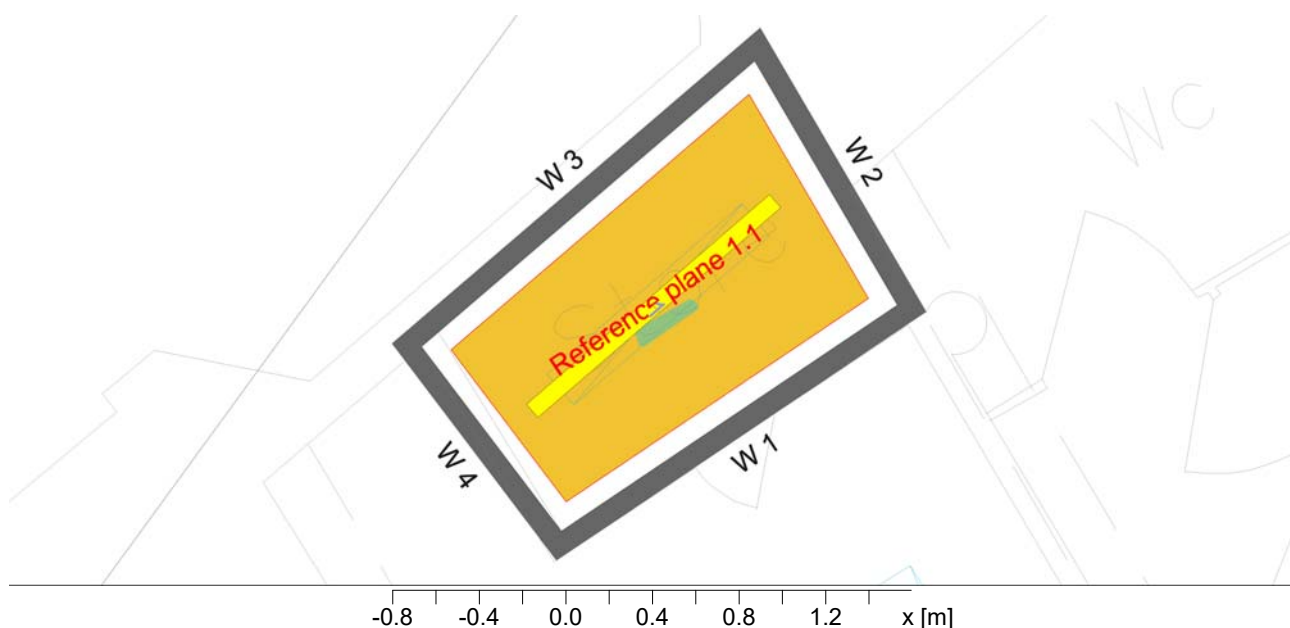
Emergency area:

| No. | Default[lx] | Emin[lx] | Surface Emax[lx] | Diversity | Height |
|-----------------------|-------------|----------|---------------------|-----------|--------|
| Emergency area 1 1 | 1.0 | 0.6 | 14.3 | 1: 25.77 | 0.00 |

13 Room 13

13.1 Summary, Room 13

13.1.1 Result overview, Evaluation area 1



General

| | |
|---|---|
| Calculation algorithm used | Average indirect fraction |
| Height of luminaire plane | 2.80 m |
| Maintenance factor | 0.80 |
| Total luminous flux of all lamps | 5483.35 lm |
| Total power | 57.0 W |
| Total power per area (2.30 m ²) | 24.86 W/m ² (9.61 W/m ² /100lx) |

Evaluation area 1

Reference plane 1.1

| | |
|----------------|------------|
| | Horizontal |
| Em | 259 lx |
| Emin | 210 lx |
| Emin/Em (Uo) | 0.81 |
| Emin/Emax (Ud) | 0.74 |
| Position | 0.00 m |

Type No.Make

| | |
|--|--|
| | Synergy Commercial Lighting |
| 1 | Order No. : !CSM/15/F/5300/4K8 |
| 1 | Luminaire name : Cosmo |
| <hr style="width: 50px; margin-left: 0;"/> | |
| | Equipment : 1 x LED 57.05 W / 5483.35 lm |

14 Room 14

14.1 Summary, Room 14

14.1.1 Result overview, Evaluation area 1



General

| | |
|---|---|
| Calculation algorithm used | Average indirect fraction |
| Height of luminaire plane | 2.80 m |
| Maintenance factor | 0.80 |
| Total luminous flux of all lamps | 10966.70 lm |
| Total power | 114.1 W |
| Total power per area (7.90 m ²) | 14.44 W/m ² (4.93 W/m ² /100lx) |

Evaluation area 1

Reference plane 1.1

| | |
|----------------|------------|
| | Horizontal |
| Em | 293 lx |
| Emin | 167 lx |
| Emin/Em (Uo) | 0.57 |
| Emin/Emax (Ud) | 0.42 |
| Position | 0.00 m |

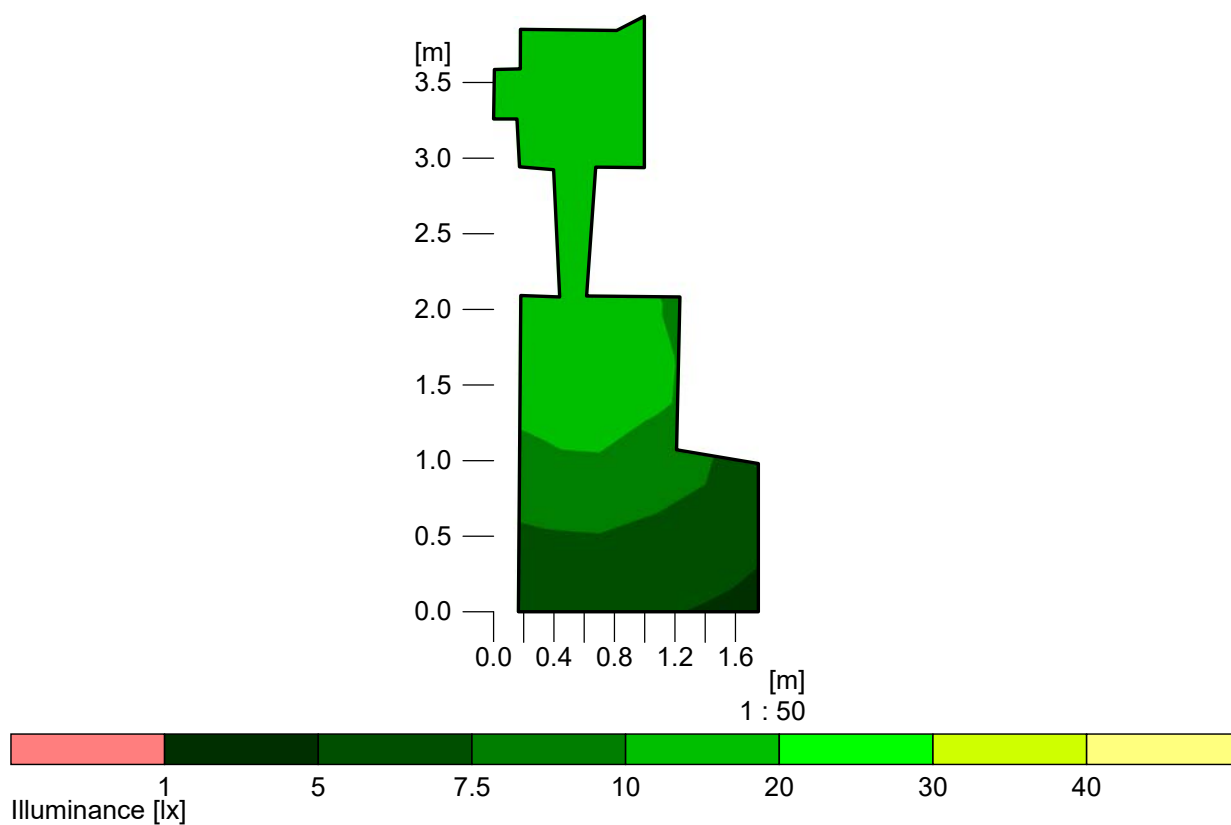
Type No. Make

| | | |
|---|---|--|
| | | Synergy Commercial Lighting |
| 2 | 2 | Order No. : !CSM/15/F/5300/4K8/EM |
| | | Luminaire name : Cosmo |
| | | Equipment : 1 x LED 57.05 W / 5483.35 lm |

14 Room 14

14.2 Calculation results, Room 14

14.2.1 Boundary line, Emergency area 1 (E)



| | | |
|------------------------------|------------------------------------|--|
| Required minimum illuminance | | : 1 lx |
| Minimum illuminance | E _{min} | : 4.2 lx |
| Maximum illuminance | E _{max} | : 15 lx |
| Diversity | E _{min} /E _{max} | : 1 : 3.47 (0.29) (Threshold value 1:40) |
| Height | | : 0 m |
| Calculation algorithm used | | : Direct component |
| Maintenance factor | | : 0.8 |

Object : Seven Dials Warehouse - LG
Installation : Proposed New Lighting
Project number : IJF01310-R1
Date : 16.02.2021

14.2 Summary, Room 14

14.2.2 Result overview (emergency lighting)

Type No. Make

Synergy Commercial Lighting
2 2 Order No. : !CSM/15/F/5300/4K8/EM
Luminaire name : Cosmo
Equipment : 1 x LED 57.05 W / 288 lm

Result evaluation area

Calculation algorithm used: Direct component
Maintenance factor: 0.8

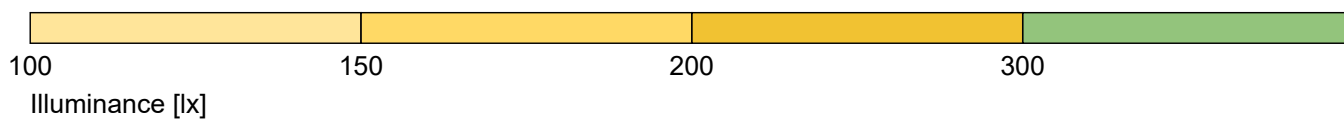
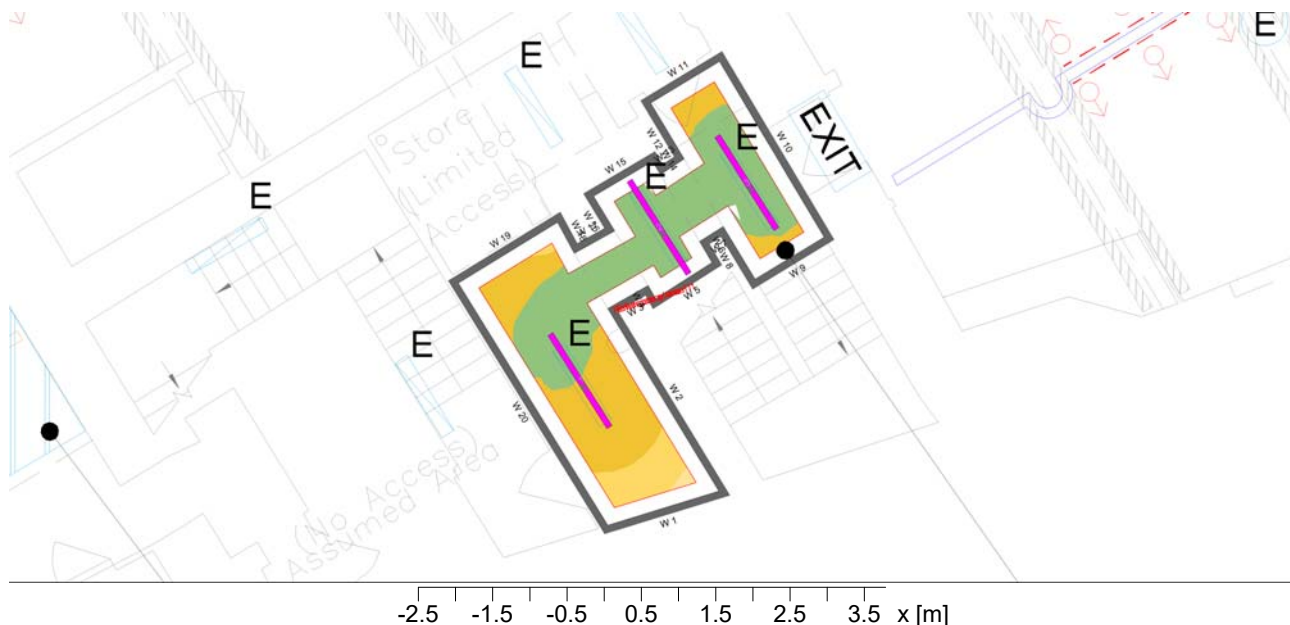
Emergency area:

| No. | Default[lx] | Emin[lx] | Surface Emax[lx] | Diversity | Height |
|------------------|-------------|----------|---------------------|-----------|--------|
| Emergency area 1 | | | | | |
| 1 | 1.0 | 4.2 | 14.5 | 1: 3.47 | 0.00 |

15 Room 15

15.1 Summary, Room 15

15.1.1 Result overview, Evaluation area 1



General

| | |
|--|---|
| Calculation algorithm used | Average indirect fraction |
| Height of luminaire plane | 2.80 m |
| Maintenance factor | 0.80 |
| Total luminous flux of all lamps | 16450.05 lm |
| Total power | 171.1 W |
| Total power per area (11.50 m ²) | 14.89 W/m ² (4.81 W/m ² /100lx) |

Evaluation area 1

Reference plane 1.1

| | |
|----------------|------------|
| | Horizontal |
| Em | 309 lx |
| Emin | 139 lx |
| Emin/Em (Uo) | 0.45 |
| Emin/Emax (Ud) | 0.30 |
| Position | 0.00 m |

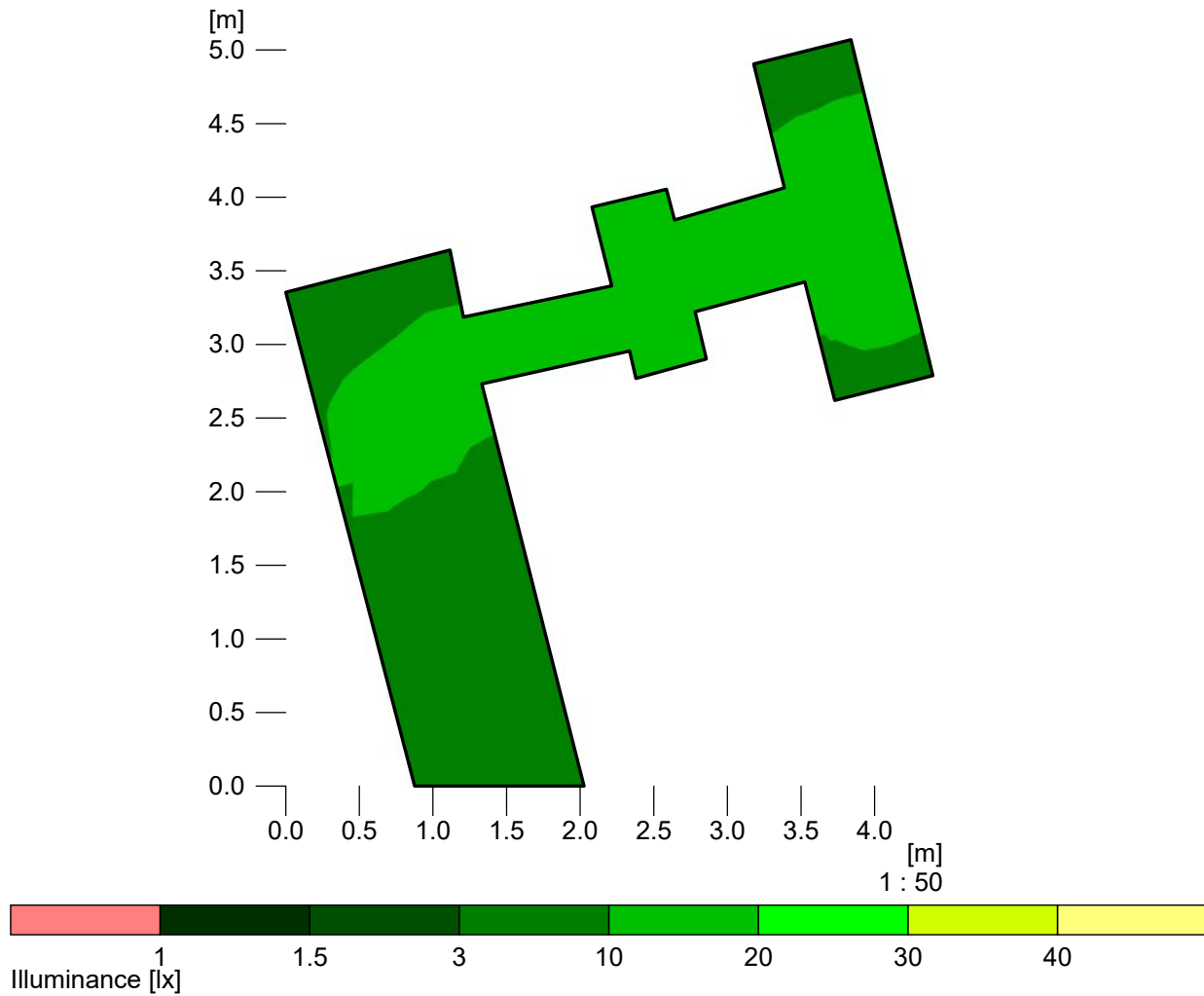
Type No. Make

| | |
|---|--|
| | Synergy Commercial Lighting |
| 2 | Order No. : !CSM/15/F/5300/4K8/EM |
| 3 | Luminaire name : Cosmo |
| | Equipment : 1 x LED 57.05 W / 5483.35 lm |

15 Room 15

15.2 Calculation results, Room 15

15.2.1 Boundary line, Emergency area 1 (E)



| | | |
|------------------------------|-----------|--|
| Required minimum illuminance | | : 1 lx |
| Minimum illuminance | Emin | : 3.5 lx |
| Maximum illuminance | Emax | : 16 lx |
| Diversity | Emin/Emax | : 1 : 4.64 (0.22) (Threshold value 1:40) |
| Height | | : 0 m |
| Calculation algorithm used | | : Direct component |
| Maintenance factor | | : 0.8 |

Object : Seven Dials Warehouse - LG
Installation : Proposed New Lighting
Project number : IJF01310-R1
Date : 16.02.2021

15.2 Summary, Room 15

15.2.2 Result overview (emergency lighting)

Type No. Make

Synergy Commercial Lighting
2 3 Order No. : !CSM/15/F/5300/4K8/EM
Luminaire name : Cosmo
Equipment : 1 x LED 57.05 W / 288 lm

Result evaluation area

Calculation algorithm used: Direct component
Maintenance factor: 0.8

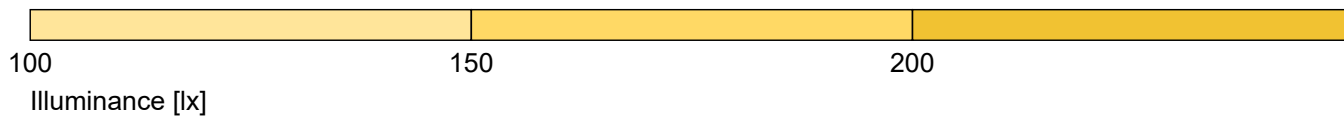
Emergency area:

| No. | Default[lx] | Emin[lx] | Surface Emax[lx] | Diversity | Height |
|-----------------------|-------------|----------|---------------------|-----------|--------|
| Emergency area 1 1 | 1.0 | 3.5 | 16.4 | 1: 4.64 | 0.00 |

16 Room 16

16.1 Summary, Room 16

16.1.1 Result overview, Evaluation area 1



General

| | |
|--|---|
| Calculation algorithm used | Average indirect fraction |
| Height of luminaire plane | 2.40 m |
| Maintenance factor | 0.80 |
| Total luminous flux of all lamps | 16450.05 lm |
| Total power | 171.1 W |
| Total power per area (10.87 m ²) | 15.75 W/m ² (7.13 W/m ² /100lx) |

Evaluation area 1

Reference plane 1.1

| | |
|----------------|------------|
| | Horizontal |
| Em | 221 lx |
| Emin | 110 lx |
| Emin/Em (Uo) | 0.50 |
| Emin/Emax (Ud) | 0.40 |
| Position | 0.00 m |

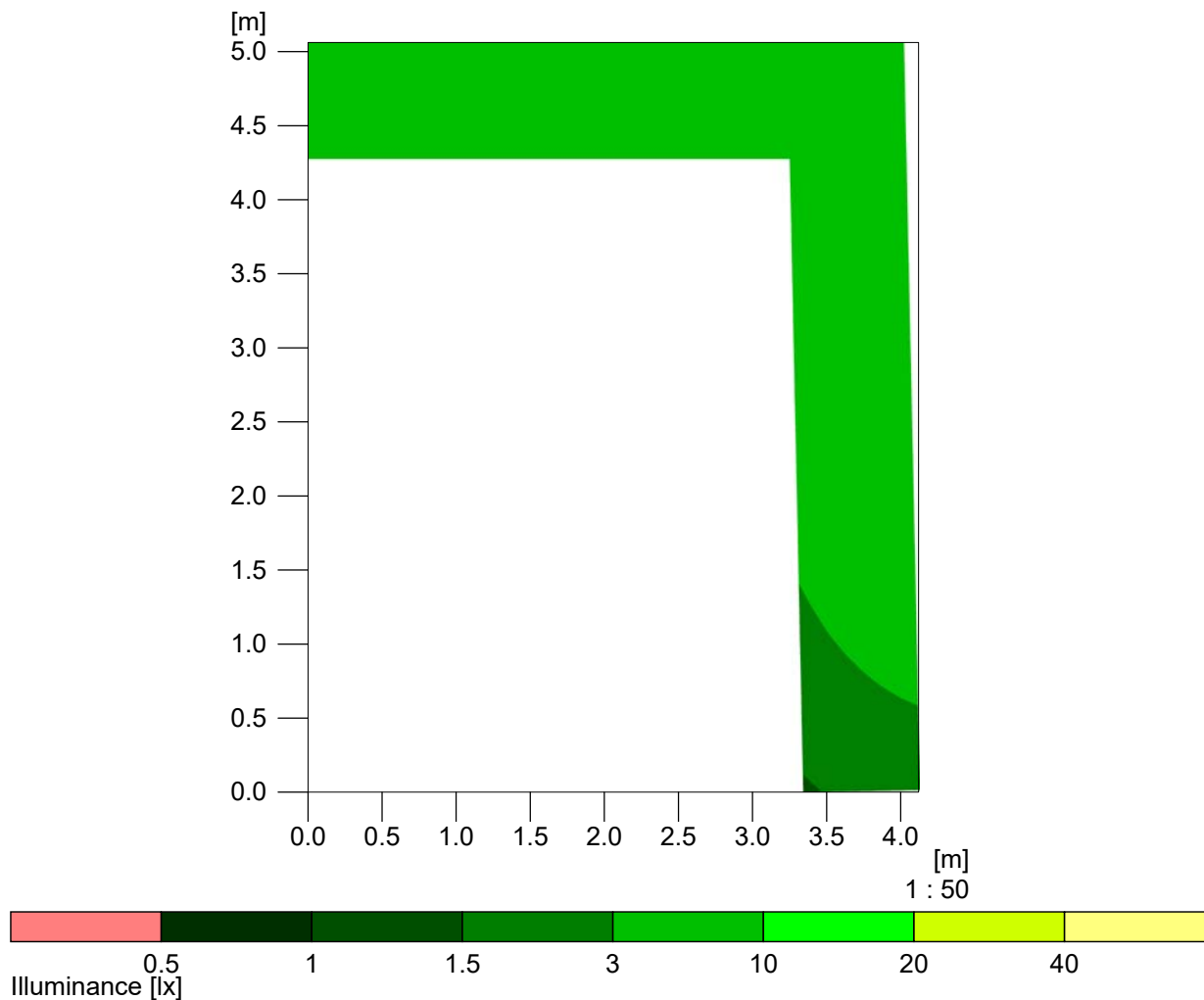
Type No.Make

| | |
|--|--|
| | Synergy Commercial Lighting |
| 2 | Order No. : !CSM/15/F/5300/4K8/EM |
| 3 | Luminaire name : Cosmo |
| <hr style="width: 50px; margin-left: 0;"/> | |
| | Equipment : 1 x LED 57.05 W / 5483.35 lm |

16 Room 16

16.2 Calculation results, Room 16

16.2.1 Boundary line, Escape route 1 (E)



| | | |
|---|------------------------------------|--|
| Required minimum illuminance (central axis) | | : 1 lx |
| Minimum illuminance (central axis) | E _{min} | : 1.8 lx |
| Maximum illuminance (central axis) | E _{max} | : 5.7 lx |
| Diversity | E _{min} /E _{max} | : 1 : 3.17 (0.32) (Threshold value 1:40) |
| Minimum illuminance | E _{min} | : 1.4 lx |
| Maximum illuminance | E _{max} | : 6 lx |
| Diversity | E _{min} /E _{max} | : 1 : 4.33 (0.23) (Threshold value 1:40) |
| Height | | : 0 m |
| Calculation algorithm used | | : Direct component |
| Maintenance factor | | : 0.8 |

Object : Seven Dials Warehouse - LG
 Installation : Proposed New Lighting
 Project number : IJF01310-R1
 Date : 16.02.2021

16.2 Summary, Room 16

16.2.2 Result overview (emergency lighting)

Type No. Make

Synergy Commercial Lighting
 2 3 Order No. : !CSM/15/F/5300/4K8/EM
 Luminaire name : Cosmo
 Equipment : 1 x LED 57.05 W / 288 lm

Result evaluation area

Calculation algorithm used: Direct component
 Maintenance factor: 0.8

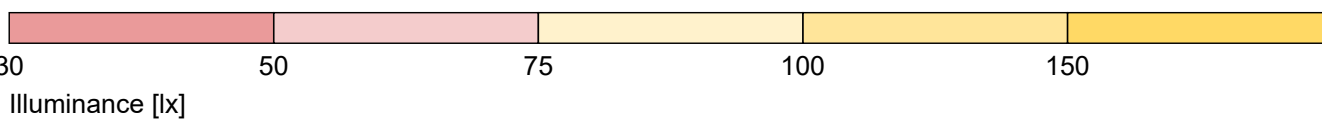
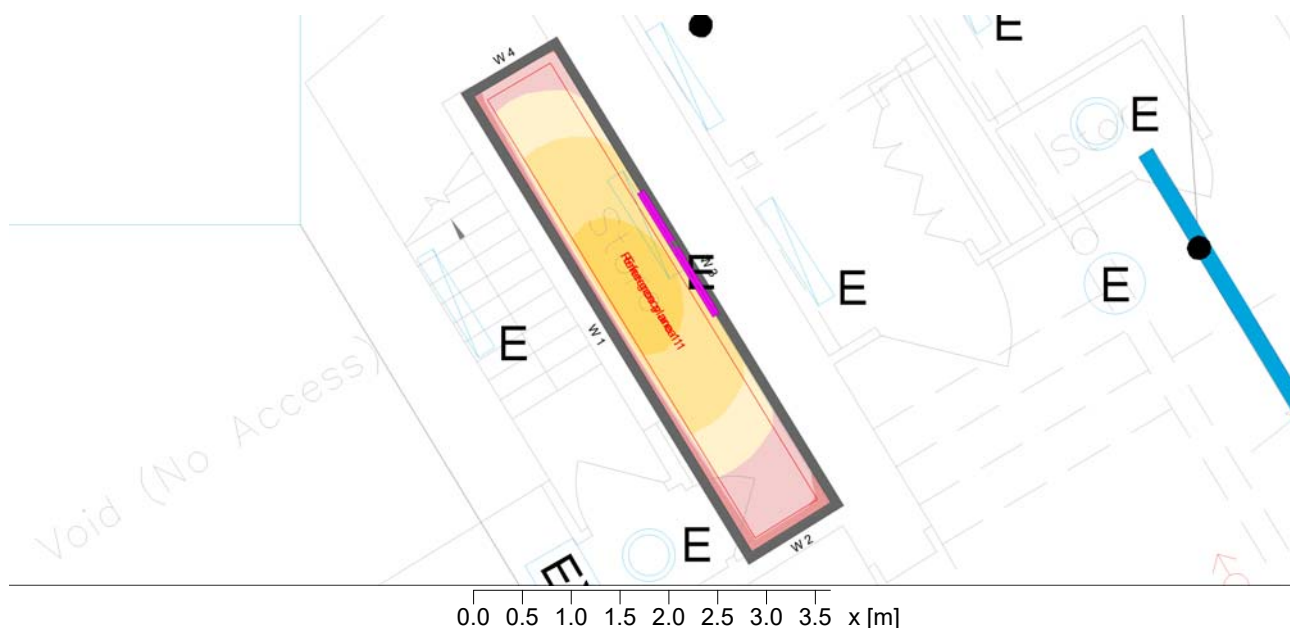
Escape routes:

| No. | Default[lx] | Central axis | | | Surface | | Diversity | Height |
|----------------|-------------|--------------|----------|-----------|----------|----------|-----------|--------|
| | | Emin[lx] | Emax[lx] | Diversity | Emin[lx] | Emax[lx] | | |
| Escape route 1 | | | | | | | | |
| 1 | 1.0 | 1.8 | 5.7 | 1: 3.21 | 1.4 | 6.0 | 1: 4.33 | 0.00 |

17 Room 17

17.1 Summary, Room 17

17.1.1 Result overview, Evaluation area 1



General

| | |
|---|--|
| Calculation algorithm used | Average indirect fraction |
| Height of luminaire plane | 2.40 m |
| Maintenance factor | 0.80 |
| Total luminous flux of all lamps | 5483.35 lm |
| Total power | 57.0 W |
| Total power per area (5.15 m ²) | 11.07 W/m ² (10.39 W/m ² /100lx) |

Evaluation area 1

Reference plane 1.1

| | |
|----------------|------------|
| | Horizontal |
| Em | 107 lx |
| Emin | 47 lx |
| Emin/Em (Uo) | 0.44 |
| Emin/Emax (Ud) | 0.29 |
| Position | 0.00 m |

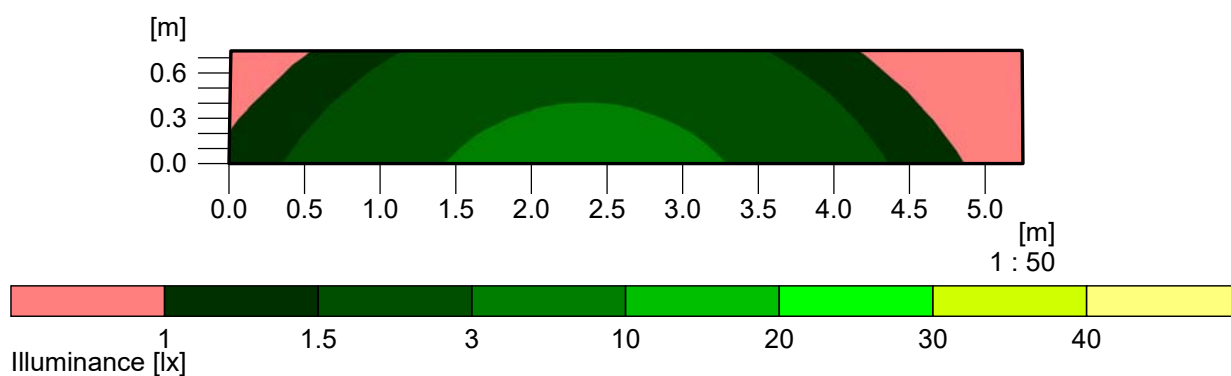
Type No./Make

| | |
|--|-----------------------------------|
| Synergy Commercial Lighting | |
| 2 | Order No. : !CSM/15/F/5300/4K8/EM |
| 1 | Luminaire name : Cosmo |
| Equipment : 1 x LED 57.05 W / 5483.35 lm | |

17 Room 17

17.2 Calculation results, Room 17

17.2.1 Boundary line, Emergency area 1 (E)



| | | |
|------------------------------|------------------------------------|--|
| Required minimum illuminance | | : 1 lx |
| Minimum illuminance | E _{min} | : 0.4 lx |
| Maximum illuminance | E _{max} | : 3.8 lx |
| Diversity | E _{min} /E _{max} | : 1 : 9.08 (0.11) (Threshold value 1:40) |
| Height | | : 0 m |
| Calculation algorithm used | | : Direct component |
| Maintenance factor | | : 0.8 |

Object : Seven Dials Warehouse - LG
Installation : Proposed New Lighting
Project number : IJF01310-R1
Date : 16.02.2021

17.2 Summary, Room 17

17.2.2 Result overview (emergency lighting)

Type No. Make

Synergy Commercial Lighting
2 1 Order No. : !CSM/15/F/5300/4K8/EM
Luminaire name : Cosmo
Equipment : 1 x LED 57.05 W / 288 lm

Result evaluation area

Calculation algorithm used: Direct component
Maintenance factor: 0.8

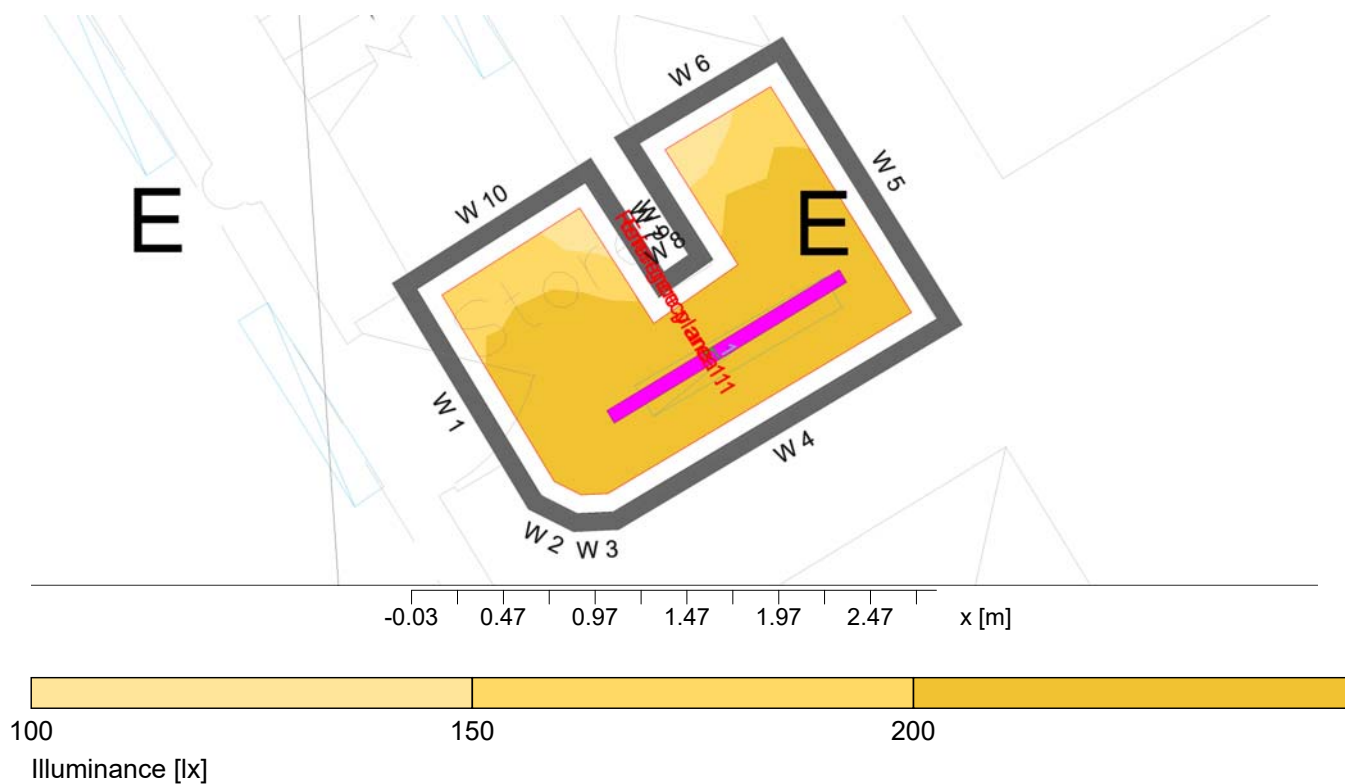
Emergency area:

| No. | Default[lx] | Emin[lx] | Surface Emax[lx] | Diversity | Height |
|------------------|-------------|----------|---------------------|-----------|--------|
| Emergency area 1 | | | | | |
| 1 | 1.0 | 0.4 | 3.8 | 1: 9.08 | 0.00 |

18 Room 18

18.1 Summary, Room 18

18.1.1 Result overview, Evaluation area 1



General

| | |
|---|---|
| Calculation algorithm used | Average indirect fraction |
| Height of luminaire plane | 2.80 m |
| Maintenance factor | 0.80 |
| Total luminous flux of all lamps | 5483.35 lm |
| Total power | 57.0 W |
| Total power per area (3.48 m ²) | 16.38 W/m ² (7.52 W/m ² /100lx) |

Evaluation area 1

Reference plane 1.1

| | |
|----------------|------------|
| | Horizontal |
| Em | 218 lx |
| Emin | 137 lx |
| Emin/Em (Uo) | 0.63 |
| Emin/Emax (Ud) | 0.53 |
| Position | 0.00 m |

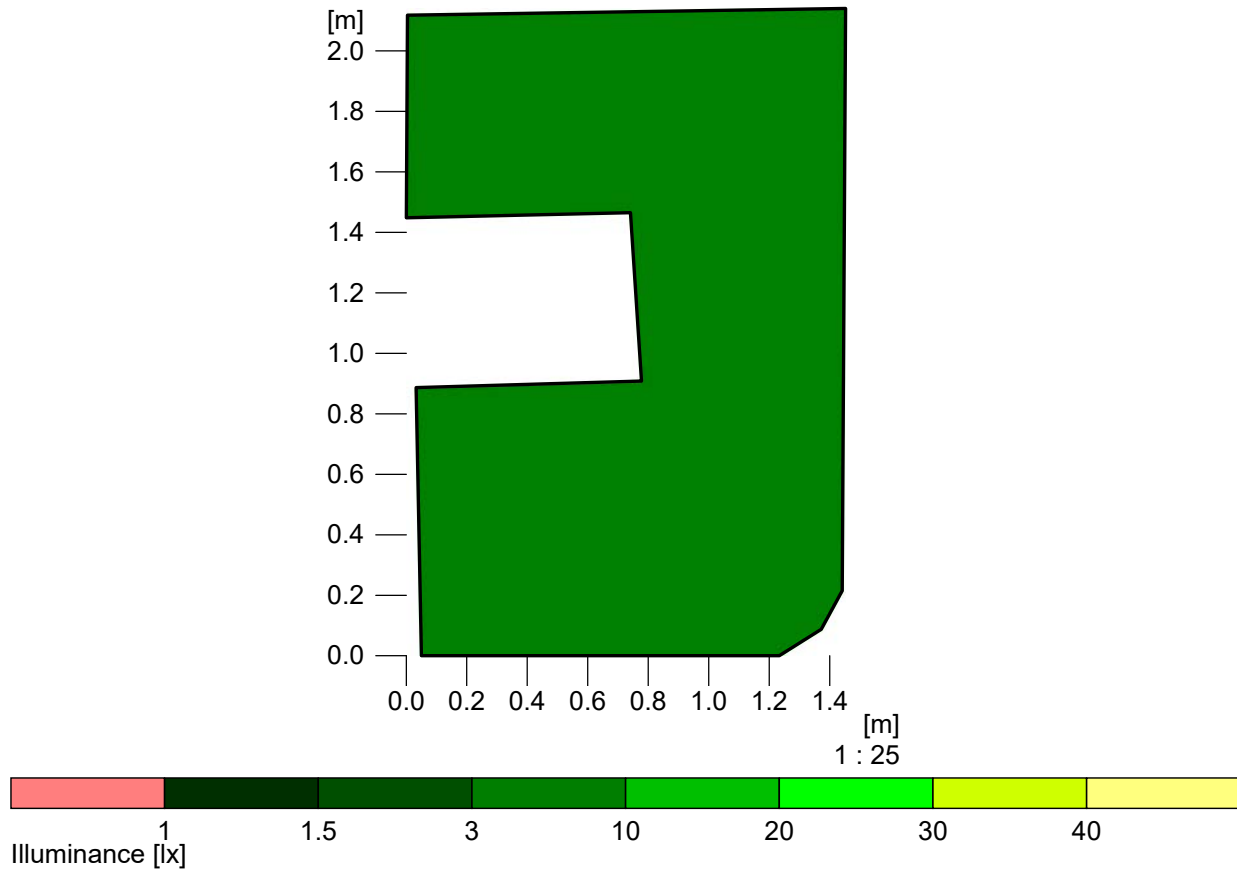
Type No. Make

| | | | |
|---|---|------------------------------------|--------------------------------|
| | | Synergy Commercial Lighting | |
| 2 | 1 | Order No. | : !CSM/15/F/5300/4K8/EM |
| | | Luminaire name | : Cosmo |
| | | Equipment | : 1 x LED 57.05 W / 5483.35 lm |

18 Room 18

18.2 Calculation results, Room 18

18.2.1 Boundary line, Emergency area 1 (E)



| | | |
|------------------------------|------------------------------------|--|
| Required minimum illuminance | | : 1 lx |
| Minimum illuminance | E _{min} | : 3.4 lx |
| Maximum illuminance | E _{max} | : 8.7 lx |
| Diversity | E _{min} /E _{max} | : 1 : 2.59 (0.39) (Threshold value 1:40) |
| Height | | : 0 m |
| Calculation algorithm used | | : Direct component |
| Maintenance factor | | : 0.8 |

Object : Seven Dials Warehouse - LG
Installation : Proposed New Lighting
Project number : IJF01310-R1
Date : 16.02.2021

18.2 Summary, Room 18

18.2.2 Result overview (emergency lighting)

Type No. Make

Synergy Commercial Lighting
2 1 Order No. : !CSM/15/F/5300/4K8/EM
Luminaire name : Cosmo
Equipment : 1 x LED 57.05 W / 288 lm

Result evaluation area

Calculation algorithm used: Direct component
Maintenance factor: 0.8

Emergency area:

| No. | Default[lx] | Emin[lx] | Surface Emax[lx] | Diversity | Height |
|-----------------------|-------------|----------|---------------------|-----------|--------|
| Emergency area 1 1 | 1.0 | 3.4 | 8.7 | 1: 2.59 | 0.00 |