

# Bishopstrow House Hotel

## Exterior Lighting

29.06.2026

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SUSAN LAKE  
LIGHTING DESIGN

# Design Statement

## Design Statement

The exterior lighting of the zones in question has been designed to enhance the aesthetical appeal of the individual spaces, as well as connect the whole site together. The lighting scheme has been developed to fulfil the need for navigation and safety at night, with feature lighting to planting, architecture and dining areas to enhance these spaces, whilst being considerate of the local wildlife including bats. Refer to the following page.

Designed with reference to current best practice guidelines, the new scheme will.

- Sensitively pick out points of architectural merit or interest.
- Use warm white light to create a comfortable environment.
- Use neutral styled lighting to blend in with the surroundings and not to be intrusive.
- All lights have been considered in terms of their materials, finish, mounting technique, light colour, glare control, beam angle and output, see fitting schedule.
- Light spill and therefore light pollution has been kept to a minimum by carefully considering the direction and output of each light, and locking the lighting into position, as well as selecting lights that are lighting down at a low level not lighting up.
- High quality, robust products with good colour consistency, life span and energy efficiency have been chosen in accordance with the high end finish of the project and to reduce the maintenance strategy going forward.

The exterior lighting design strategy for the Bishopstrow House Hotel is to design for a dark sky area to avoid creating light pollution. We have adopted the Responsible Outdoor Lighting At Night (ROLAN) Manifesto core principles which reflects the advice contained in this Good Lighting TAN.

Lighting Urban Community International (LUCI) Association declared their sustainability goals which are aligned with the principles outlined below.

Everyone should have the right to access darkness and quality lighting, and light needs to be used and distributed fairly without discrimination.

Start your design with darkness and only add light if it supports nocturnal place-making and protects a view of the stars.

Strive to maximize the benefits of outdoor light at night by creating legible, safe spaces and journeys, simultaneously limiting each project's environmental and financial costs.

### Principles of Responsible Outdoor Lighting Design

1. All light should have a clear purpose.
2. Light should be directed only to where it's needed.
3. Light should be no brighter than necessary.
4. Light should be dimmed down or turned off when not required.
5. Use warmer colour lights where possible.

The lighting scheme has been designed for the environment and wildlife based on advice set out in the The Institute of Lighting Professionals Guidance Note GN08/23 Bats and Artificial Lighting At Night.

Bat population recovery and status are important, not just because of their intrinsic value as unique mammals and their ecological vulnerability, but also because bats are bio-indicator species. This means a healthy bat population in an area indicates a properly functioning ecosystem for the species within it, which includes humans. Healthy ecosystems provide and regulate our environment and are critical in supporting our economy, as well as meeting our wider societal needs. Coupled with the historical losses of bat numbers, this is why all of our bats are fully protected under the law.

It is important to minimise Artificial Lighting At Night close to vegetation, particularly for slower-flying species, and the need to increase dense vegetation in urban landscape to provide, not just roosting opportunities, but also protection against ALAN for open-space foraging bats in city landscapes

When considering how bats move through the landscape, ALAN has been shown to be particularly harmful along river corridors, near woodland edges and hedgerows.

The very low light levels and distances from light sources shown in these studies indicates the considerable sensitivity of many of the UK's light averse species, emphasising the need to maintain or reduce existing light levels in the environment.

Light levels should always be designed to minimise potential environmental impact, and maximise the potential of habitat and species enhancement work, through multidisciplinary working and evidence based scheme design.

In summary, the importance of integrating avoidance measures (as per the first step of the mitigation hierarchy) into developmental design, cannot be overemphasised. Retaining ecologically functional 'dark corridors' and Key Habitats for bats within schemes (in preference to seeking lighting mitigation strategies), avoids costly and time-consuming additional surveys, mitigation and post-development monitoring. Furthermore, LPAs are likely to favour applications where steps have been taken to avoid such conflicts. This masterplanning work needs to be informed by robust ecological survey data and lighting assessments, carried out by the relevant experts at the earliest opportunity in the project. Ultimately, light levels should always be designed to minimise potential environmental impact, and maximise the potential of habitat and species enhancement work, through multidisciplinary working and evidence based new, or retrofit, scheme design.

**Lighting Control / Switching**

Each of the lighting elements is carefully controlled in order to maintain the right levels of light according to the time of day. The lighting scheme will be used only in the hours of darkness to conserve energy. The lights will come on 2 hours before dusk every day, according to an astronomical time clock. After 1am, the feature lighting will be switched off, and only the essential pathway navigation lighting will remain on until sunrise. The lights will be adjusted seasonally via an astronomical time clock. The lights will be used more in the winter during the bats hibernation period.

**Environmental Zones**

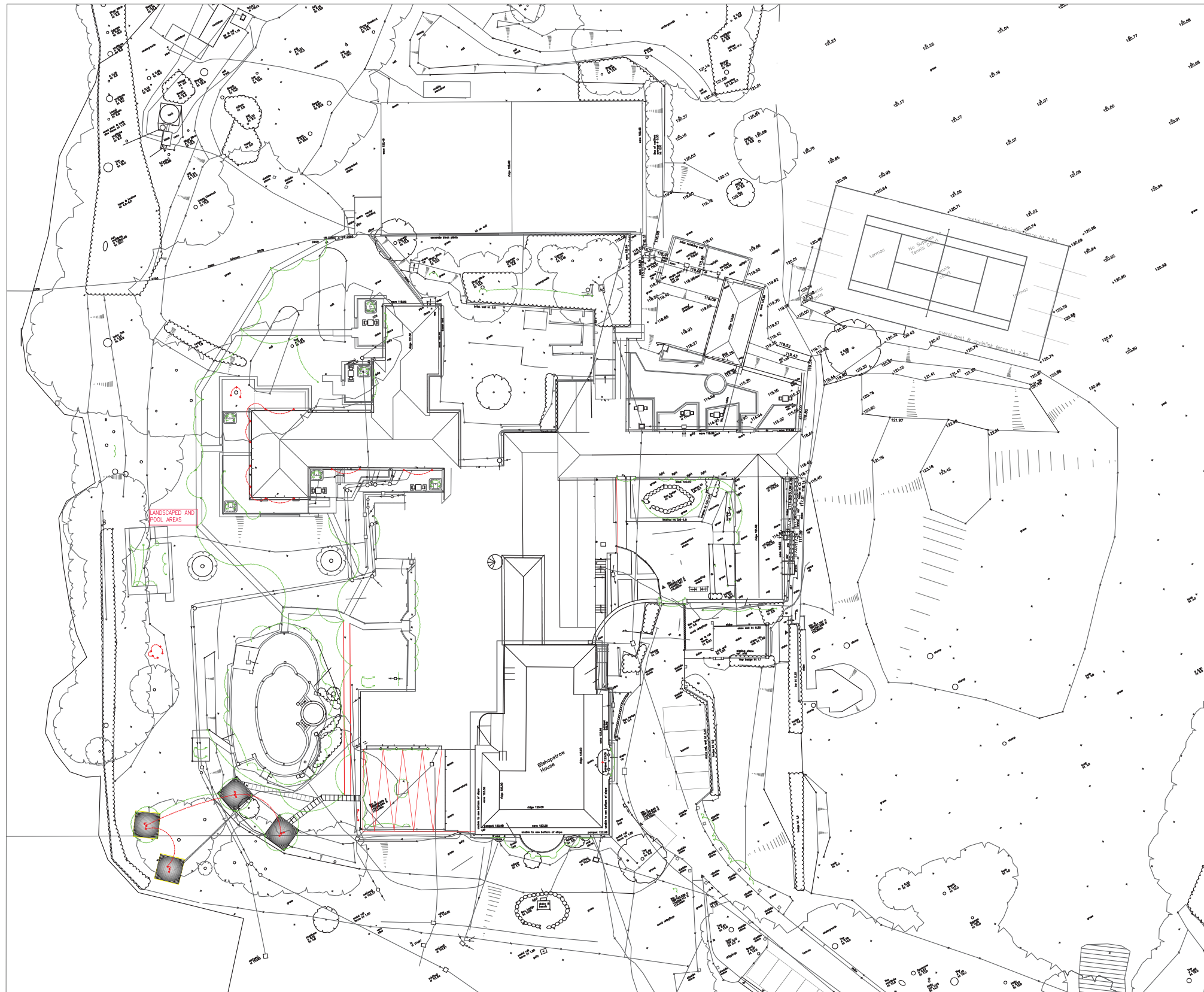
To avoid over-lighting, the Institute of Lighting Engineers have developed a set of limiting standards for different environmental zones. The I.L.E. has identified 4 zones from E1 to E4. Based on the immediate surroundings of the project, the area is considered to be E2, an Rural zone.

| Environmental zones                                                                                                                         |             |                            |                                                           |
|---------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------------------------|-----------------------------------------------------------|
| It is recommended to divide the various areas into different environmental zones and provide specific lighting environment in each of them. |             |                            |                                                           |
| Environmental Zones                                                                                                                         |             |                            |                                                           |
| Zone                                                                                                                                        | Surrounding | Lighting Environment       | Examples                                                  |
| E0                                                                                                                                          | Protected   | Dark                       | UNESCO starlight Reserves, IDA Dark Sky Parks             |
| E1                                                                                                                                          | Natural     | Intrinsically dark         | National Parks, Areas of outstanding natural beauty etc   |
| E2                                                                                                                                          | Rural       | Low district brightness    | Village or relatively dark outer suburban locations       |
| E3                                                                                                                                          | Suburban    | Medium district brightness | Small town centers or suburban locations                  |
| E4                                                                                                                                          | Urban       | High district brightness   | Town/city centers with high levels of night time activity |

## Bishopstrow House Exterior - Existing Site Plan



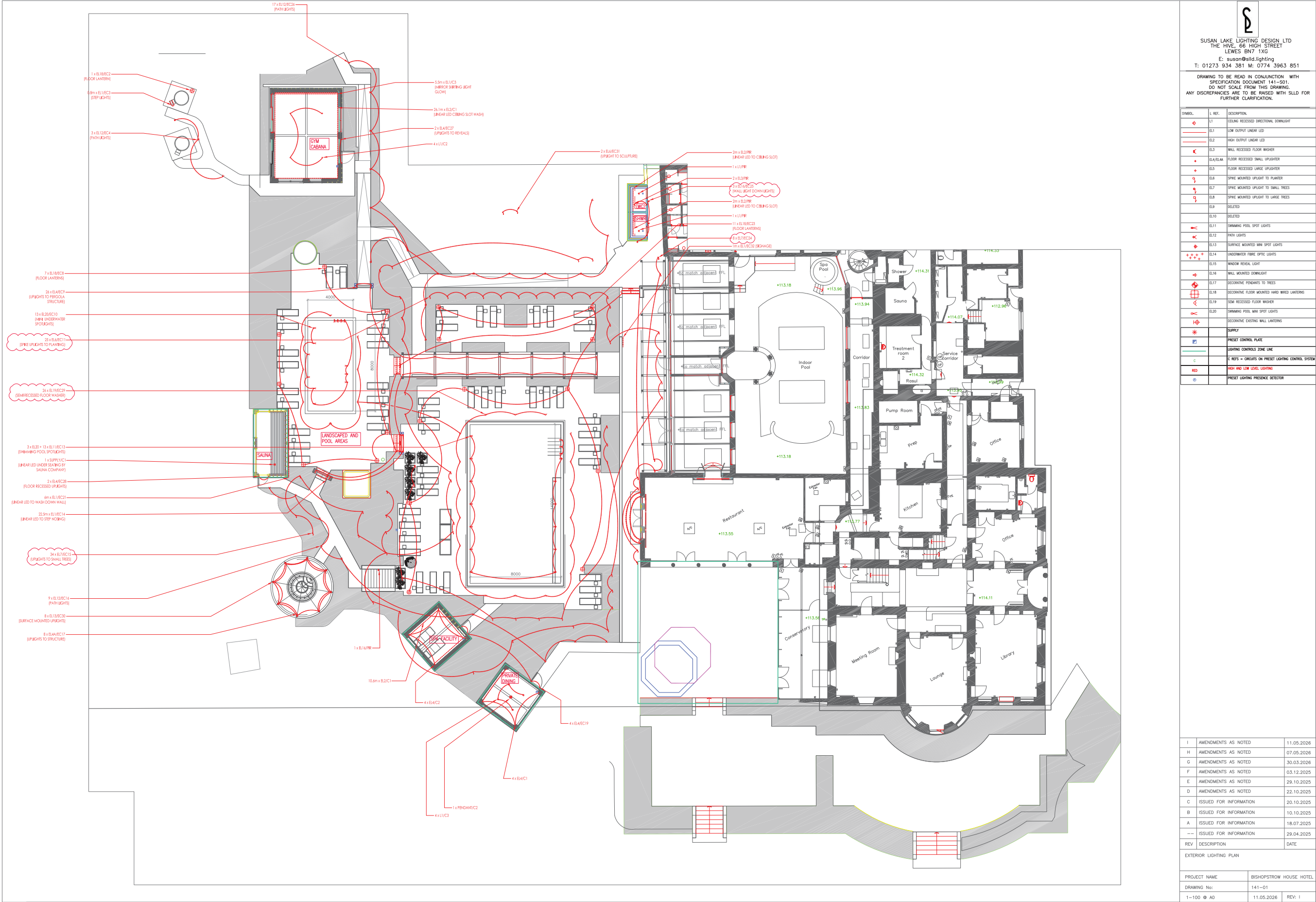
**SUSAN LAKE**  
LIGHTING DESIGN



|                                                                                                                    |        |                                       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|---------------------------------------|
| <p>SUSAN LAKE LIGHTING DESIGN LTD<br/>THE HIVE, 66 HIGH STREET<br/>LEWES BN7 1XG</p>                                                                                                                  |        |                                       |
| <p>E: <a href="mailto:susan@slld.lighting">susan@slld.lighting</a><br/>T: 01273 934 381 M: 0774 3963 851</p>                                                                                          |        |                                       |
| <p>DRAWING TO BE READ IN CONJUNCTION WITH<br/>SPECIFICATION DOCUMENT 141-301.<br/>DO NOT SCALE FROM THIS DRAWING.<br/>ANY DISCREPANCIES ARE TO BE RAISED WITH SLDD FOR<br/>FURTHER CLARIFICATION.</p> |        |                                       |
| SYMBOL                                                                                                                                                                                                | L REF. | DESCRIPTION                           |
|                                                                                                                    |        | FLOOR RECESSED SMALL UPLIGHTER        |
|                                                                                                                    |        | FLOOR RECESSED LARGE UPLIGHTER        |
|                                                                                                                    |        | SPOKE MOUNTED UPLIGHT TO PLASTER      |
|                                                                                                                    |        | SPOKE MOUNTED UPLIGHT TO SMALL BRICKS |
|                                                                                                                    |        | SPOKE MOUNTED UPLIGHT TO LARGE BRICKS |
|                                                                                                                    |        | WALL RECESSED STEP LIGHT              |
|                                                                                                                    |        | PATIN LIGHTS                          |
|                                                                                                                    |        | NOT TUB UNDERWATER SPOT LIGHTS        |
|                                                                                                                    |        | SURFACE MOUNTED SQUARE UPLIGHT        |
|                                                                                                                    |        | SURFACE MOUNTED UPLIGHT               |
|                                                                                                                    |        | WALL LIGHT                            |
|                                                                                                                    |        | DECORATIVE FERNS TO TREES             |
|                                                                                                                    |        | DECORATIVE WALL LANTERNS              |
| <p>LOW LEVEL LIGHTING</p>                                                                                                                                                                             |        |                                       |
| GREEN                                                                                                                                                                                                 |        | HIGH LEVEL LIGHTING                   |

|                        |                        |                         |            |
|------------------------|------------------------|-------------------------|------------|
|                        |                        |                         |            |
|                        |                        |                         |            |
|                        |                        |                         |            |
|                        |                        |                         |            |
|                        |                        |                         |            |
|                        |                        |                         |            |
| --                     | ISSUED FOR INFORMATION |                         | 18.07.2025 |
| REV                    | DESCRIPTION            |                         | DATE       |
| EXTERIOR LIGHTING PLAN |                        |                         |            |
| PROJECT NAME           |                        | BISHOPSTROW HOUSE HOTEL |            |
| DRAWING No:            |                        | 141-04                  |            |
| 1-100                  |                        | AO                      | 18.07.2025 |
|                        |                        | REV:                    | --         |

Bishopstrow House Exterior - Proposed Lighting Plan





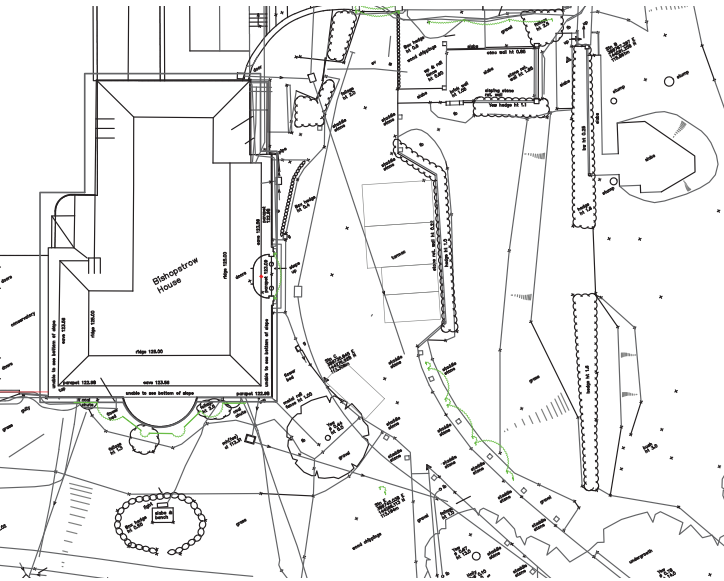
Dining Terrace view at night



Exterior facade view



Main entrance



Location Plan



Main entrance view towards car park



Main entrance view facing towards guest room block



Courtyard view facing main entrance

Existing Site Photos - Bishopstrow House Exterior



Dining Terrace view facing East at night



Pathway illumination



Pathway illumination



Location Plan



Dining pod



Dining pod light

## Existing Site Photos - Bishopstrow House Exterior



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LIGHTING DESIGN



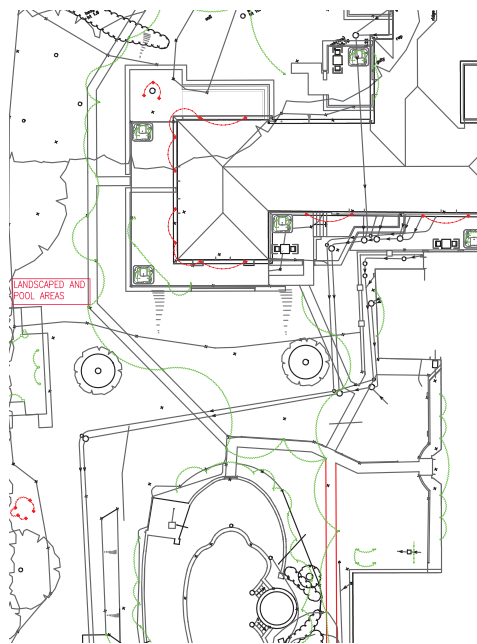
Tree pendant sculpture



Planting lighting



Pavilion



Location Plan

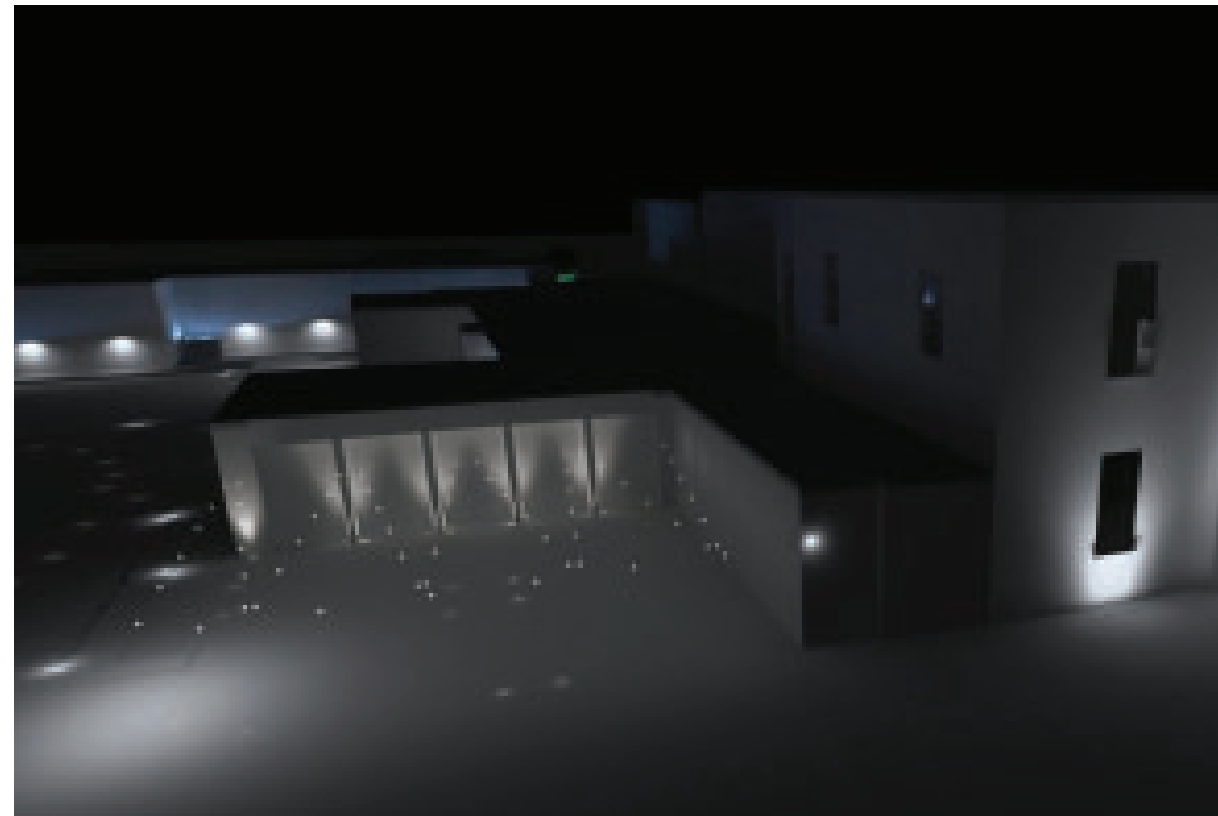
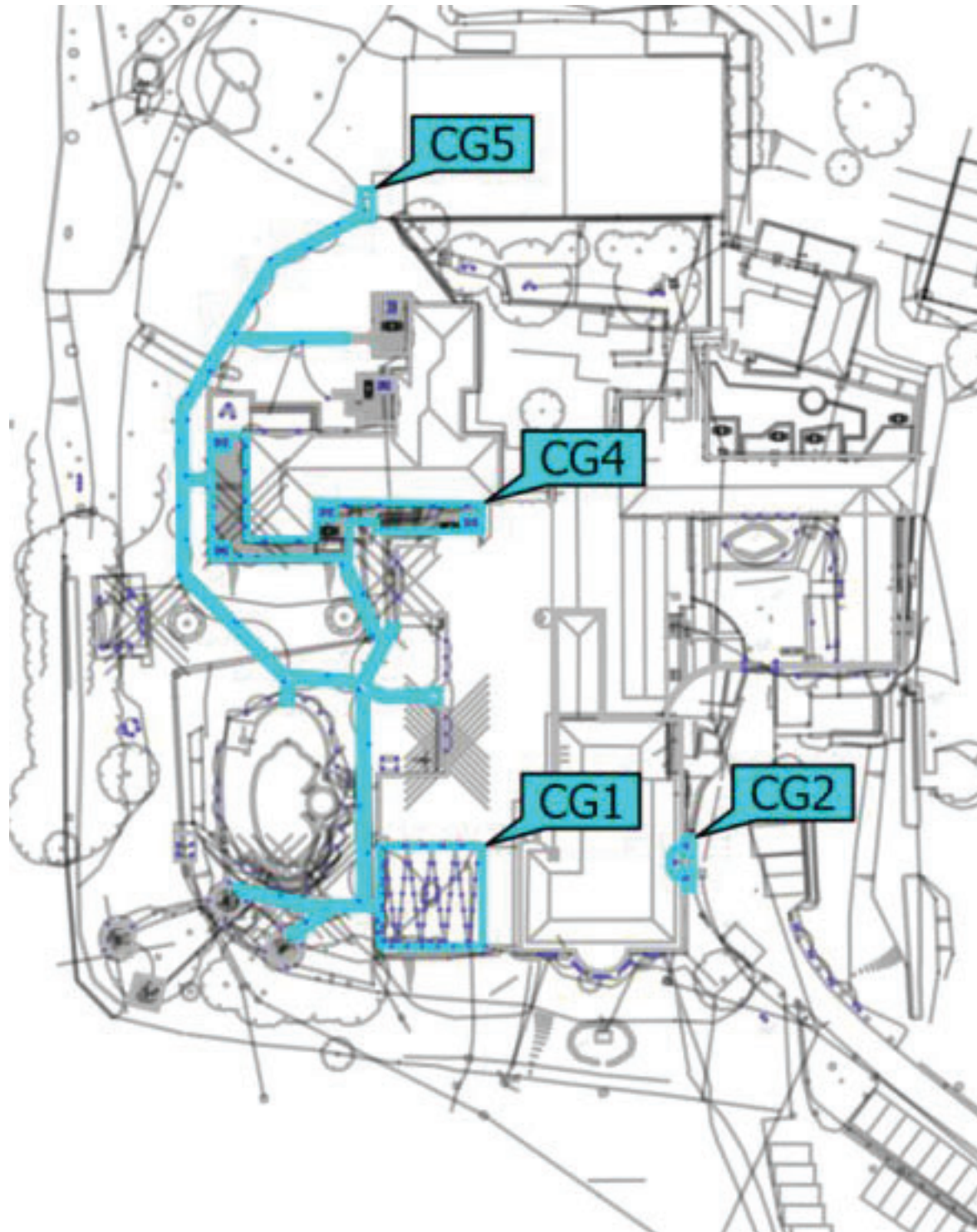


Pathway illumination

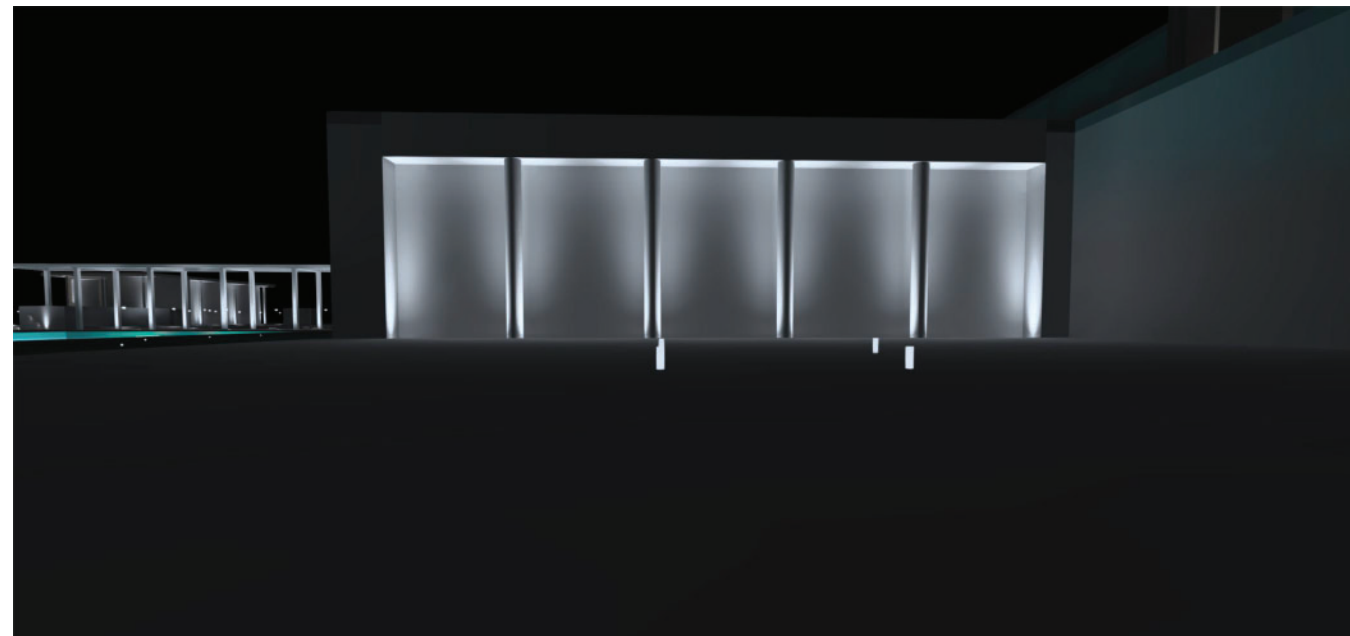
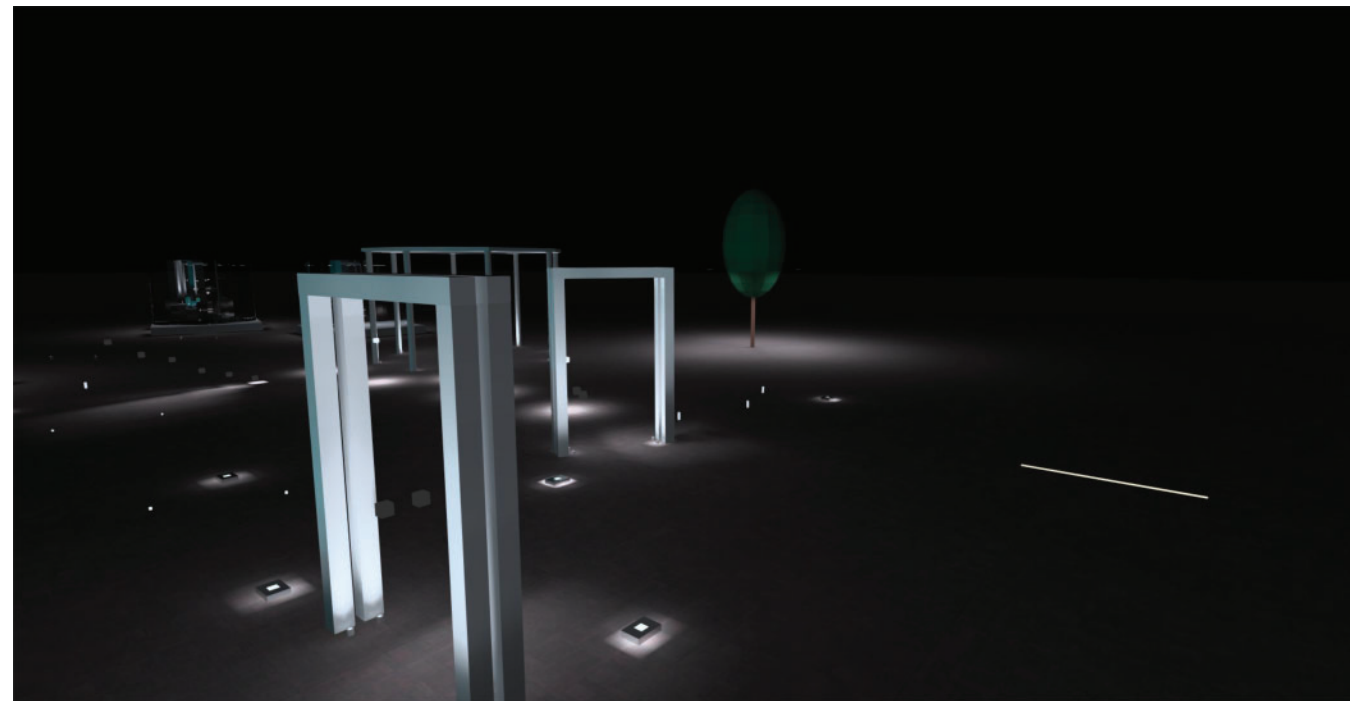
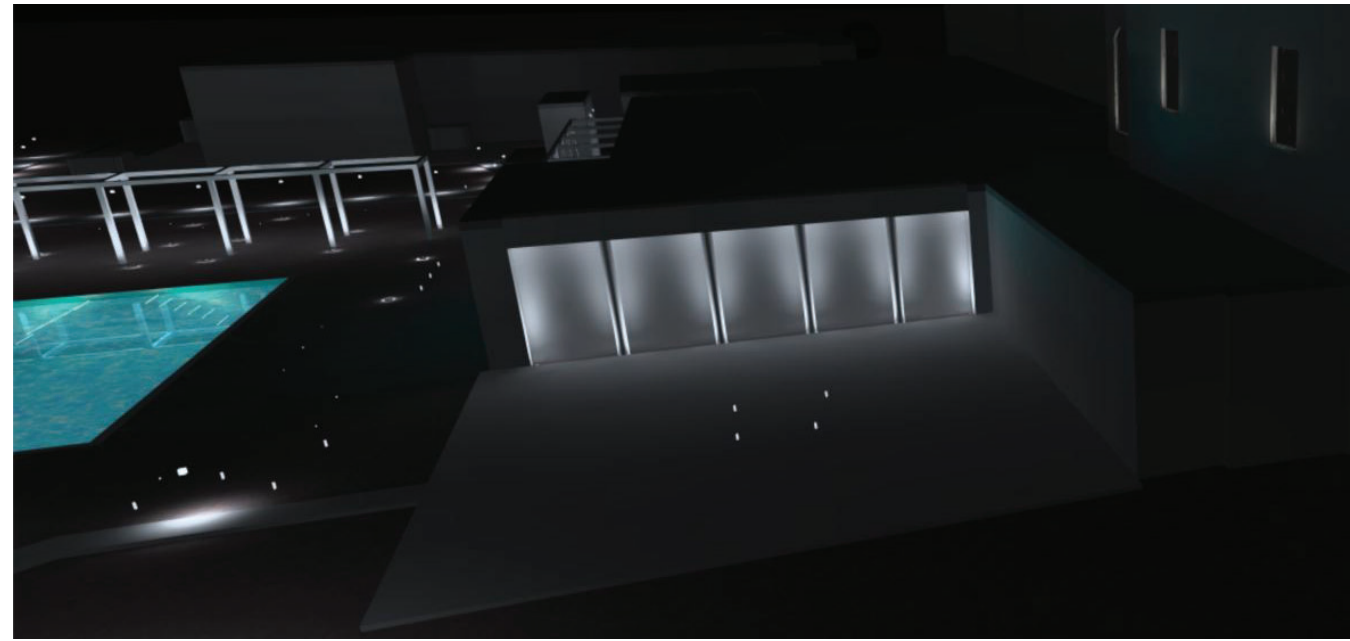
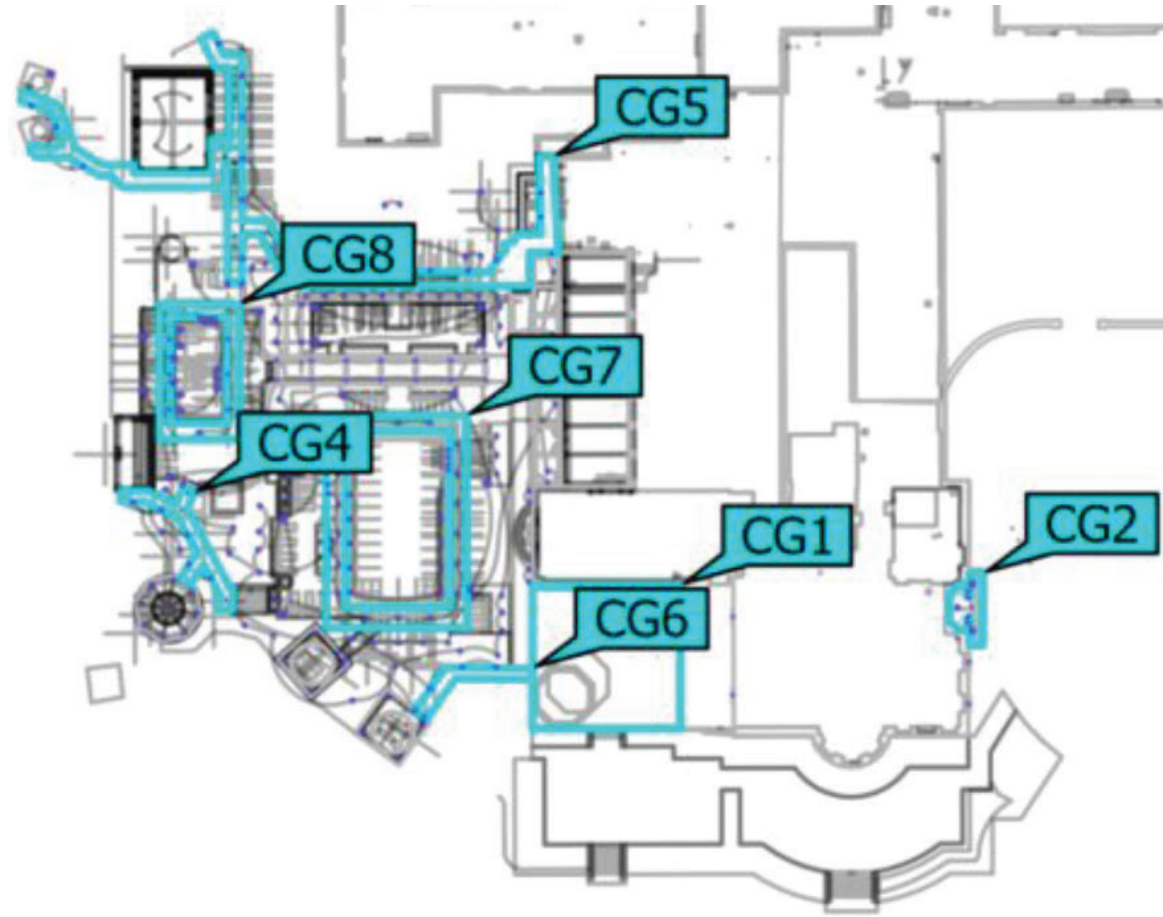


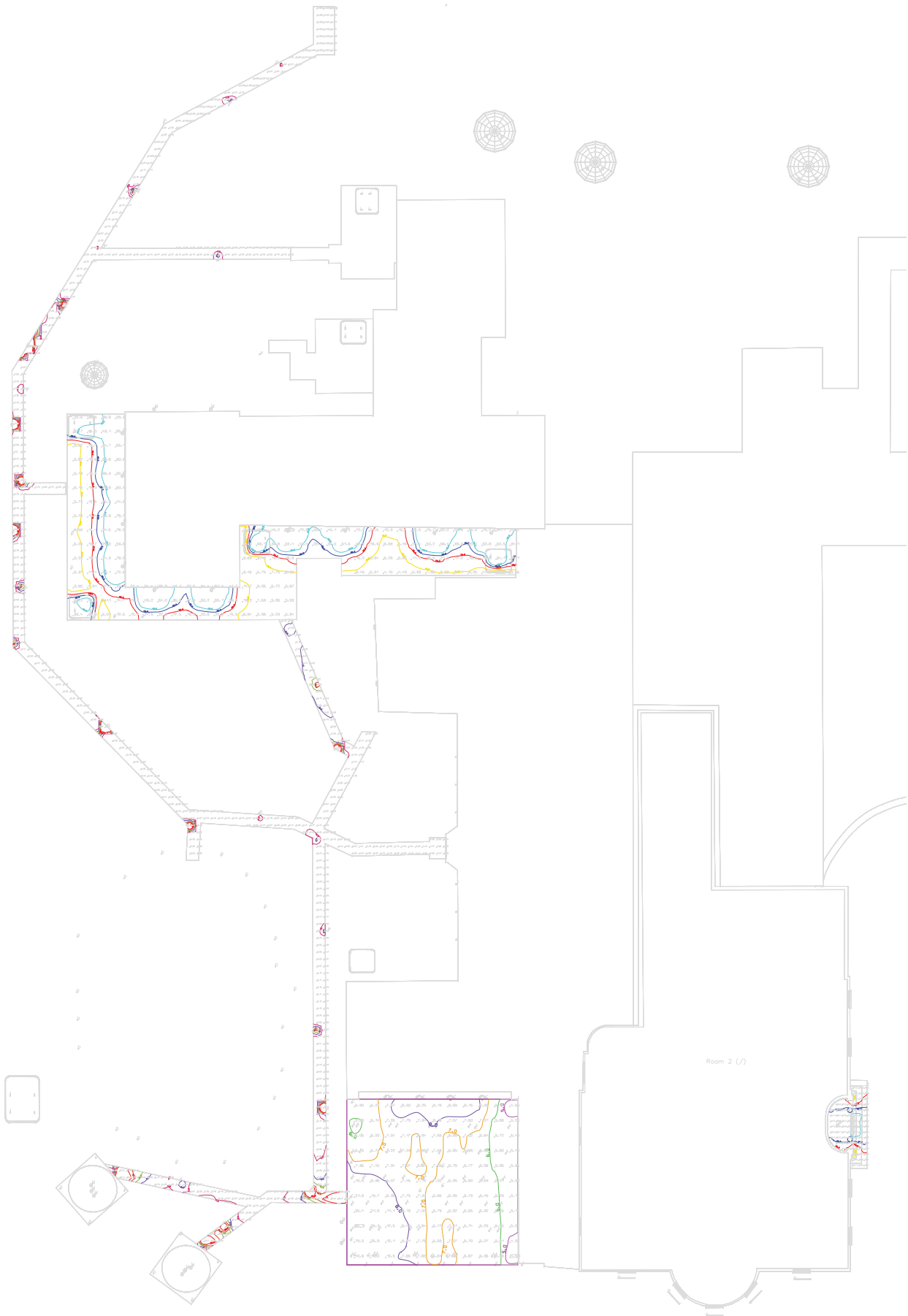
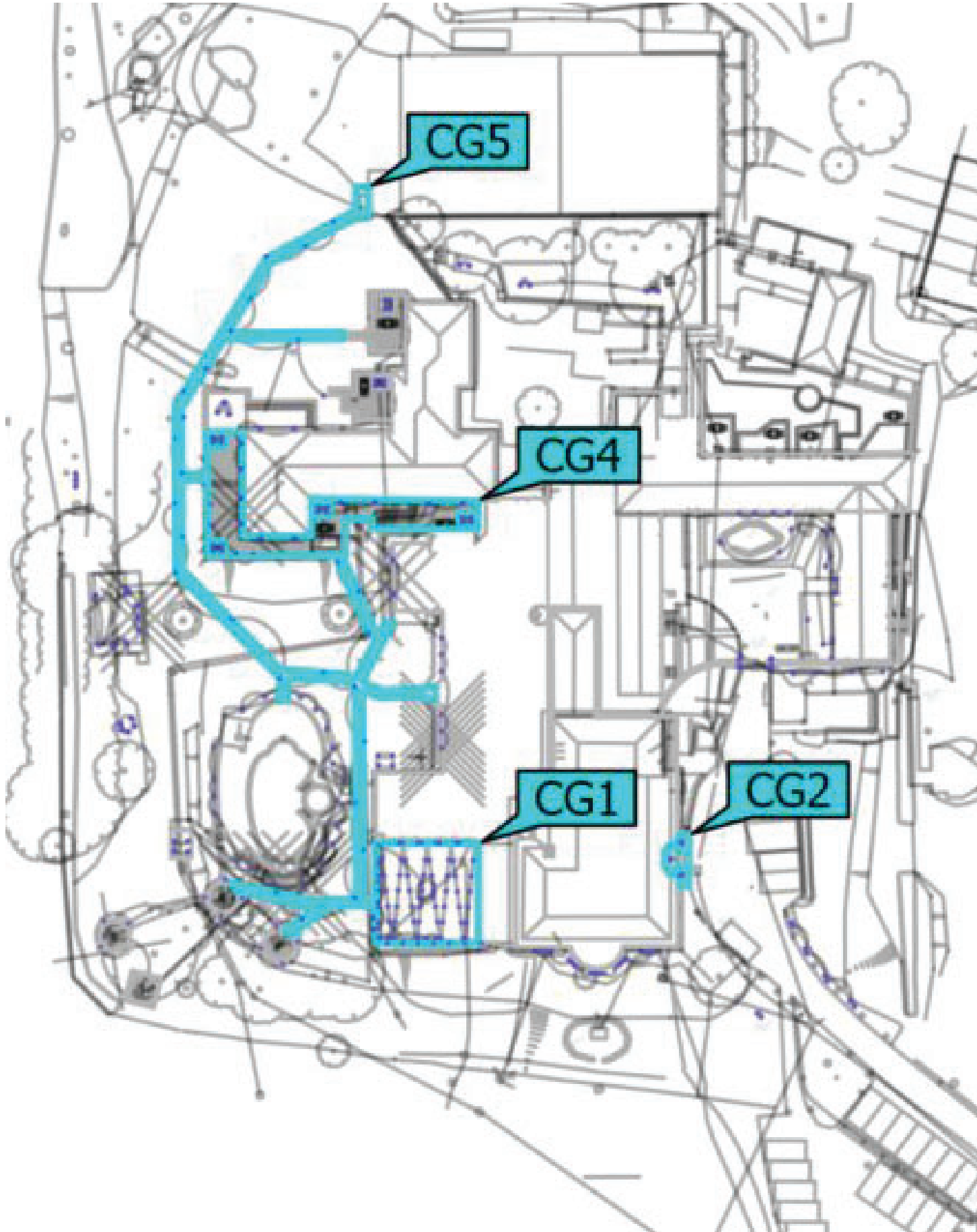
Suites

## Existing light plot - Bishopstrow House Exterior

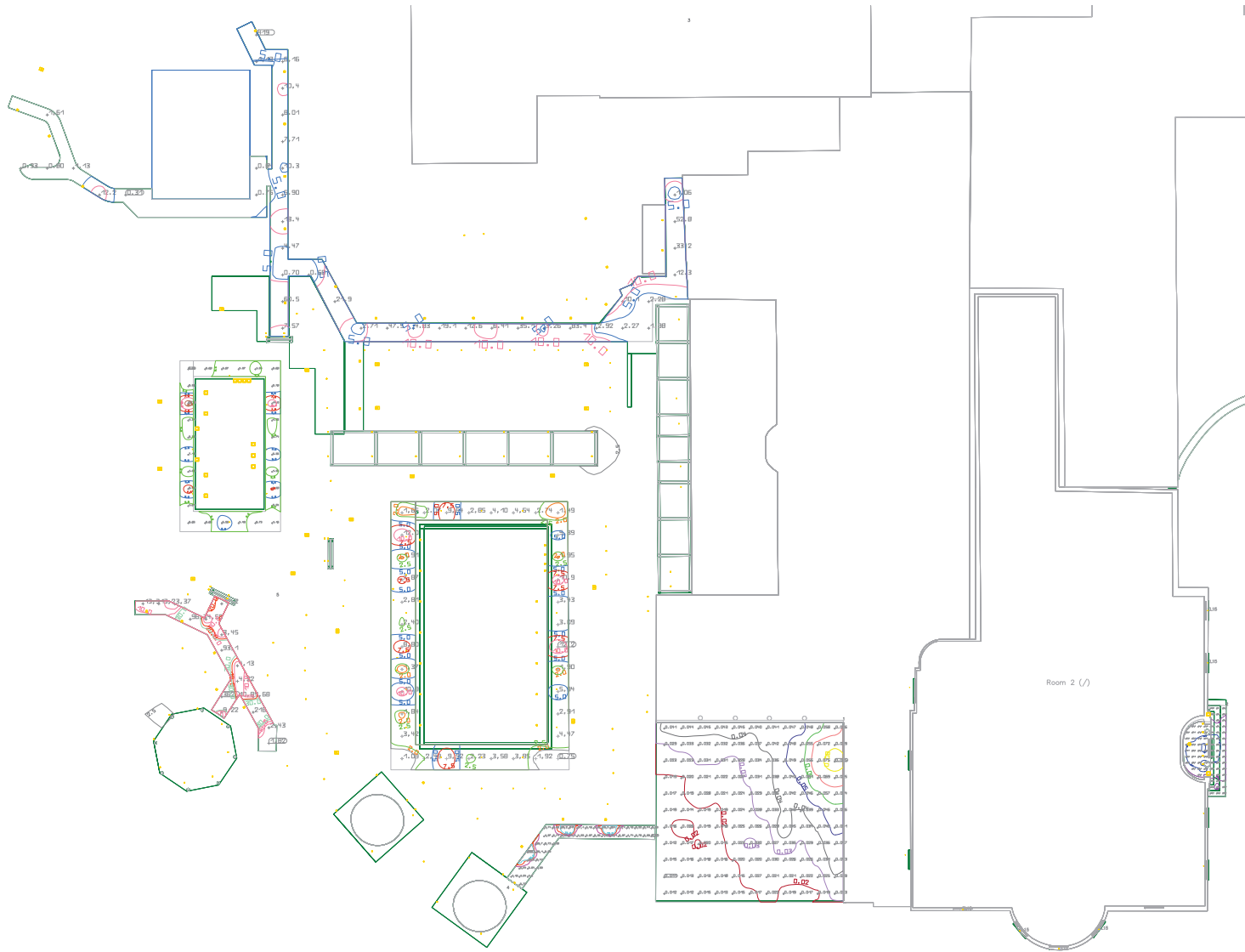
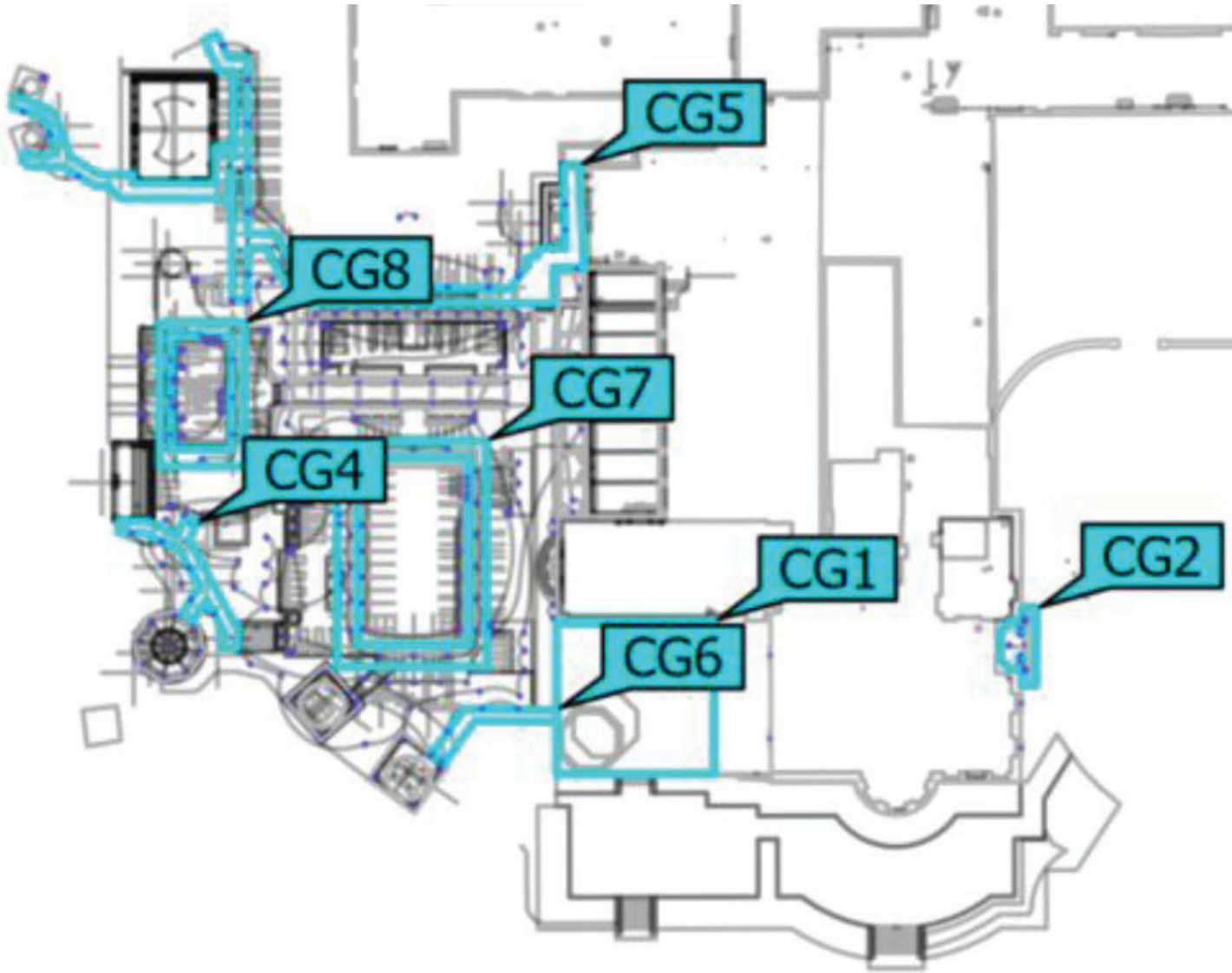


## Proposed light plot - Bishopstrow House Exterior





Proposed light plot - Bishopstrow House Exterior



# Luminaire List - Bishopstrow House Exterior

## Existing

### Luminaire list

| $\Phi_{total}$<br>109704 lm |                                                                   | $P_{total}$<br>2018.5 W                                             |                                                    | Luminous efficacy<br>54.3 lm/W |         |                   |       |
|-----------------------------|-------------------------------------------------------------------|---------------------------------------------------------------------|----------------------------------------------------|--------------------------------|---------|-------------------|-------|
| pcs.                        | Manufacturer                                                      | Article No.                                                         | Article name                                       | P                              | $\Phi$  | Luminous efficacy | Index |
| 15                          | Philips                                                           | ColorBurst<br>IntelliHue<br>Powercore<br>, gen3<br>FULL ON<br>60X60 |                                                    | 31.3 W                         | 1646 lm | 52.6 lm/W         | F     |
| 61                          |                                                                   | UB-<br>EX_WW_G1<br>9-F                                              |                                                    | 1.4 W                          | 44 lm   | 31.5 lm/W         | A     |
| 35                          | FLOS S.p.A.                                                       | F018D35A<br>0xx                                                     | INVITRO SUSPENSION                                 | 13.0 W                         | 854 lm  | 65.7 lm/W         | M     |
| 8                           | John Cullen<br>Lighting                                           | GLH4XXXX<br>2                                                       | Hampton 40                                         | 8.0 W                          | 600 lm  | 75.0 lm/W         | E     |
| 50                          | John Cullen<br>Lighting                                           | GLK2XWXX<br>3                                                       | Kew 25 Wide @ 500mA                                | 1.5 W                          | 83 lm   | 55.4 lm/W         | D     |
| 28                          | John Cullen<br>Lighting                                           | GLPBXXXX<br>1                                                       | Portobello                                         | 2.1 W                          | 49 lm   | 23.4 lm/W         | H     |
| 32                          | John Cullen<br>Lighting                                           | ULL6XWXX<br>2                                                       | Lucca 60 Wide                                      | 6.0 W                          | 222 lm  | 36.9 lm/W         | C     |
| 6                           | ROGER<br>PRADIER -                                                | 150 ...                                                             | PLACE DES VOSGES 1 evolution (E27) clear           | 17.5 W                         | 1349 lm | 77.1 lm/W         | L     |
| 6                           | ROGER<br>PRADIER -                                                | 167 ...                                                             | KLINT (LED) clear                                  | 8.2 W                          | 406 lm  | 49.5 lm/W         |       |
| 2                           | Thorn Lighting                                                    | 96632222                                                            | KAT RD SE 1800-830 HF [STD]                        | 16.3 W                         | 1650 lm | 101.2 lm/W        | K     |
| 5                           | Traxon                                                            |                                                                     | LINEAR GO MIDI DC 32W RGBW40 45x20D<br>1200 FULLON | 32.0 W                         | 1536 lm | 48.0 lm/W         | O     |
| 32                          | WIBRE<br>Elektrogeräte<br>Edmund<br>Breuninger<br>GmbH &Co.<br>KG | -                                                                   | Strahler 4.0102.20.43 RGB-4500K E22 WEISS          | 8.5 W                          | 421 lm  | 49.5 lm/W         | I     |

## Proposed

### Luminaire list

| $\Phi_{total}$<br>114396 lm |                               | $P_{total}$<br>1947.6 W      |                                          | Luminous efficacy<br>58.7 lm/W |         |                   |       |
|-----------------------------|-------------------------------|------------------------------|------------------------------------------|--------------------------------|---------|-------------------|-------|
| pcs.                        | Manufacturer                  | Article No.                  | Article name                             | P                              | $\Phi$  | Luminous efficacy | Index |
| 1                           | FLOS S.p.A.                   | F018D35A<br>0xx              | INVITRO SUSPENSION                       | 13.0 W                         | 854 lm  | 65.7 lm/W         | EL17  |
| 20                          | LightGraphix                  |                              | LD234-E3-350-LW27-MB                     | 9.5 W                          | 65 lm   | 6.8 lm/W          | EL15  |
| 4                           | LightGraphix                  | LD141-E3-<br>500-LW30-<br>NB | LD141-E3                                 | 7.0 W                          | 462 lm  | 66.0 lm/W         | EL5   |
| 46                          | LightGraphix                  | LD56-C1-<br>700-LW30-<br>NB  | LD56-C1                                  | 2.4 W                          | 208 lm  | 86.8 lm/W         | EL4   |
| 25                          | Lucent<br>Lighting Ltd        | VF002-27                     | Vista Mini Flood 2700K                   | 1.5 W                          | 119 lm  | 79.1 lm/W         | EL6   |
| 2                           | Lucent<br>Lighting Ltd        | VS001-27-<br>24              | Vista Spot 2700K - 24deg beam shaper     | 8.5 W                          | 365 lm  | 42.9 lm/W         | EL16  |
| 44                          | Lucent<br>Lighting Ltd        | VS001-27-<br>40              | Vista Spot 2700K 40deg beam shaper       | 8.5 W                          | 359 lm  | 42.2 lm/W         | EL7   |
| 16                          | Not yet a<br>DIALux<br>member | -                            | Strahler 4.0052.20.12 3000K              | 5.6 W                          | 461 lm  | 81.8 lm/W         | EL11  |
| 15                          | Not yet a<br>DIALux<br>member | 150 ...                      | PLACE DES VOSGES 1 evolution (E27) clear | 17.5 W                         | 1349 lm | 77.1 lm/W         | EL20  |
| 19                          | Not yet a<br>DIALux<br>member | 177 066                      | HOGAR 400 (16W LED Sym)                  | 16.0 W                         | 1996 lm | 124.7 lm/W        | EL18  |
| 26                          | PHOS Ltd                      | N/A                          | Pano Midi Surface Washer 180Å° (14W 30K) | 15.6 W                         | 276 lm  | 17.7 lm/W         | EL19  |
| 29                          | Signify                       |                              |                                          | 4.0 W                          | 344 lm  | 86.1 lm/W         | EL12  |

## Existing

Site 1 (Light scene 1)

### Calculation objects

#### Calculation surfaces

| Properties                                                      | $\bar{E}$ | $E_{min}$ | $E_{max}$ | $U_o (g_1)$ | $g_2$ | Index |
|-----------------------------------------------------------------|-----------|-----------|-----------|-------------|-------|-------|
| Building Perimeter<br>Horizontal illuminance<br>Height: 0.100 m | 29.0 lx   | 2.29 lx   | 97.4 lx   | 0.079       | 0.024 | CG4   |
| Dining Area Horizontal<br>illuminance Height:<br>0.910 m        | 9.75 lx   | 4.52 lx   | 84.1 lx   | 0.46        | 0.054 | CG1   |
| Entrance<br>Horizontal illuminance<br>Height: 0.450 m           | 28.7 lx   | 8.52 lx   | 46.0 lx   | 0.30        | 0.19  | CG2   |
| Walkway<br>Horizontal illuminance<br>Height: 0.150 m            | 3.70 lx   | 0.020 lx  | 237 lx    | 0.005       | 0.000 | CG5   |

Utilisation profile: DIALux presetting (5.1.4 Standard (outdoor transportation area))

## Proposed

Site 1 (Light scene 1)

### Calculation objects

#### Calculation surfaces

| Properties                                                | $\bar{E}$ | $E_{min}$ | $E_{max}$ | $U_o (g_1)$ | $g_2$ | Index |
|-----------------------------------------------------------|-----------|-----------|-----------|-------------|-------|-------|
| Big Pool<br>Horizontal illuminance<br>Height: -0.099 m    | 4.46 lx   | 0.75 lx   | 12.2 lx   | 0.17        | 0.061 | CG7   |
| Dining Area<br>Horizontal illuminance<br>Height: 0.910 m  | 0.050 lx  | 0.014 lx  | 0.12 lx   | 0.28        | 0.12  | CG1   |
| Entrance<br>Horizontal illuminance<br>Height: 0.450 m     | 42.9 lx   | 10.7 lx   | 66.5 lx   | 0.25        | 0.16  | CG2   |
| Small Pool<br>Horizontal illuminance<br>Height: -0.099 m  | 3.64 lx   | 0.64 lx   | 13.4 lx   | 0.18        | 0.048 | CG8   |
| Walkway-1<br>Horizontal illuminance<br>Height: 0.100 m    | 31.5 lx   | 0.21 lx   | 482 lx    | 0.007       | 0.000 | CG6   |
| Walkway-2<br>Perpendicular illuminance<br>Height: 0.000 m | 50.8 lx   | 1.89 lx   | 363 lx    | 0.037       | 0.005 | CG4   |
| Walkway-3<br>Perpendicular illuminance<br>Height: 0.100 m | 22.7 lx   | 0.32 lx   | 419 lx    | 0.014       | 0.001 | CG5   |

Utilisation profile: DIALux presetting (5.1.4 Standard (outdoor transportation area))

Dining Terrace Product data sheets - Bishopstrow House Exterior

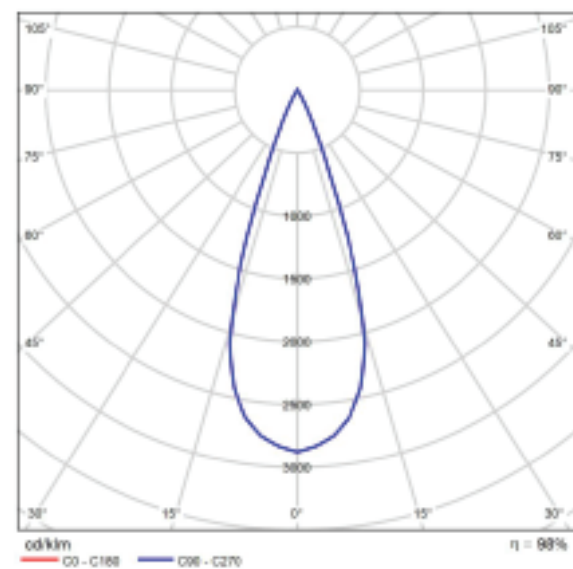
Dining Terrace existing

Product data sheet

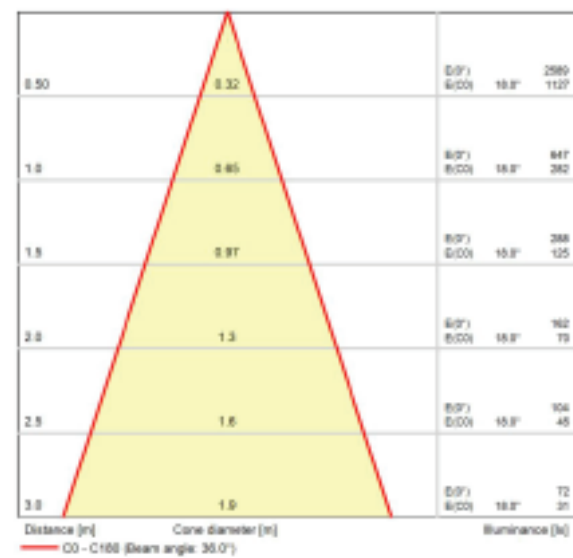
John Cullen Lighting - Lucca 60 Wide



|                        |           |
|------------------------|-----------|
| Article No.            | ULL6XWXQ2 |
| P                      | 6.0 W     |
| Φ <sub>Lamp</sub>      | 225 lm    |
| Φ <sub>Luminaire</sub> | 222 lm    |
| η                      | 98.45 %   |
| Luminous efficacy      | 36.9 lm/W |
| CCT                    | 2811 K    |
| CRI                    | 95        |
| Index                  | C         |



Polar LDC

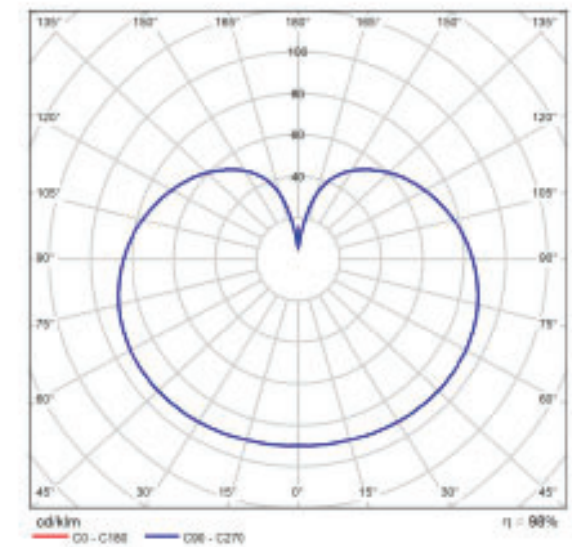


Cone diagram

Product data sheet



|                        |                |
|------------------------|----------------|
| Article No.            | UB-EX_WW_G19-F |
| P                      | 1.4 W          |
| Φ <sub>Lamp</sub>      | 45 lm          |
| Φ <sub>Luminaire</sub> | 44 lm          |
| η                      | 97.95 %        |
| Luminous efficacy      | 31.5 lm/W      |
| CCT                    | 3000 K         |
| CRI                    | 100            |
| Index                  | A              |



Polar LDC

| Glare evaluation according to RUG                          |                                                                 |      |      |      |      |                                            |      |      |      |      |      |
|------------------------------------------------------------|-----------------------------------------------------------------|------|------|------|------|--------------------------------------------|------|------|------|------|------|
| z Ceiling                                                  | 75                                                              | 75   | 50   | 50   | 25   | 25                                         | 15   | 15   | 10   | 10   |      |
| z Walls                                                    | 25                                                              | 25   | 25   | 25   | 25   | 25                                         | 25   | 25   | 25   | 25   |      |
| z Floor                                                    | 25                                                              | 25   | 25   | 25   | 25   | 25                                         | 25   | 25   | 25   | 25   |      |
| Room size<br>S<br>m²                                       | Viewing direction at right angles<br>to lamp axis               |      |      |      |      | Viewing direction parallel<br>to lamp axis |      |      |      |      |      |
| 2H                                                         | 2H                                                              | 9.5  | 10.5 | 10.4 | 11.4 | 12.5                                       | 9.6  | 10.6 | 10.4 | 11.4 |      |
|                                                            | 3H                                                              | 12.5 | 13.5 | 12.5 | 13.5 | 14.5                                       | 12.5 | 13.5 | 12.5 | 13.5 |      |
|                                                            | 4H                                                              | 13.2 | 14.2 | 14.1 | 15.2 | 16.1                                       | 13.2 | 14.2 | 14.1 | 15.2 |      |
|                                                            | 5H                                                              | 14.8 | 15.4 | 15.4 | 16.3 | 17.4                                       | 14.8 | 15.4 | 15.4 | 16.3 |      |
|                                                            | 6H                                                              | 15.1 | 16.0 | 16.0 | 16.8 | 17.9                                       | 15.1 | 16.0 | 16.0 | 16.8 |      |
| 4H                                                         | 12H                                                             | 15.7 | 16.5 | 16.6 | 17.4 | 18.5                                       | 15.7 | 16.5 | 16.6 | 17.4 |      |
|                                                            | 2H                                                              | 10.4 | 11.3 | 11.2 | 12.2 | 13.2                                       | 10.4 | 11.3 | 11.2 | 12.2 |      |
|                                                            | 3H                                                              | 13.5 | 13.8 | 13.9 | 14.7 | 15.8                                       | 13.5 | 13.8 | 13.9 | 14.7 |      |
|                                                            | 4H                                                              | 14.4 | 15.1 | 15.1 | 15.8 | 17.2                                       | 14.4 | 15.1 | 15.1 | 15.8 |      |
|                                                            | 5H                                                              | 15.8 | 16.5 | 16.5 | 17.4 | 18.5                                       | 15.8 | 16.5 | 16.5 | 17.4 |      |
| 6H                                                         | 6H                                                              | 16.3 | 17.1 | 17.1 | 18.1 | 19.2                                       | 16.3 | 17.1 | 17.1 | 18.1 |      |
|                                                            | 12H                                                             | 17.2 | 17.8 | 18.2 | 18.7 | 19.8                                       | 17.2 | 17.8 | 18.2 | 18.7 |      |
|                                                            | 8H                                                              | 4H   | 15.3 | 15.8 | 15.8 | 16.8                                       | 17.7 | 15.3 | 15.8 | 15.8 | 16.8 |
|                                                            |                                                                 | 5H   | 16.5 | 17.1 | 17.1 | 18.1                                       | 19.2 | 16.5 | 17.1 | 17.1 | 18.1 |
|                                                            |                                                                 | 6H   | 17.5 | 17.9 | 18.4 | 19.3                                       | 20.1 | 17.5 | 17.9 | 18.4 | 19.3 |
| 12H                                                        |                                                                 | 12H  | 18.2 | 18.7 | 18.7 | 19.7                                       | 20.8 | 18.2 | 18.7 | 18.7 | 19.7 |
|                                                            |                                                                 | 12H  | 4H   | 18.8 | 19.8 | 19.8                                       | 20.8 | 21.7 | 18.8 | 19.8 | 19.8 |
|                                                            | 5H                                                              |      | 19.8 | 17.2 | 17.8 | 18.2                                       | 19.4 | 19.8 | 17.2 | 17.8 | 18.2 |
|                                                            | 6H                                                              |      | 17.7 | 18.1 | 18.7 | 19.1                                       | 20.4 | 17.7 | 18.1 | 18.7 | 19.1 |
|                                                            | Variation of the observer position for the luminance distance S |      |      |      |      |                                            |      |      |      |      |      |
| S = 1.2H                                                   | +0.1 / -0.1                                                     |      |      |      |      | +0.1 / -0.1                                |      |      |      |      |      |
| S = 1.5H                                                   | +0.2 / -0.2                                                     |      |      |      |      | +0.2 / -0.2                                |      |      |      |      |      |
| S = 2.0H                                                   | +0.3 / -0.3                                                     |      |      |      |      | +0.3 / -0.3                                |      |      |      |      |      |
| Standard table                                             | BX11                                                            |      |      |      |      | BX11                                       |      |      |      |      |      |
| Correction command                                         | 2.8                                                             |      |      |      |      | 2.8                                        |      |      |      |      |      |
| Corrected glare index referring to 40m Total luminous flux |                                                                 |      |      |      |      |                                            |      |      |      |      |      |

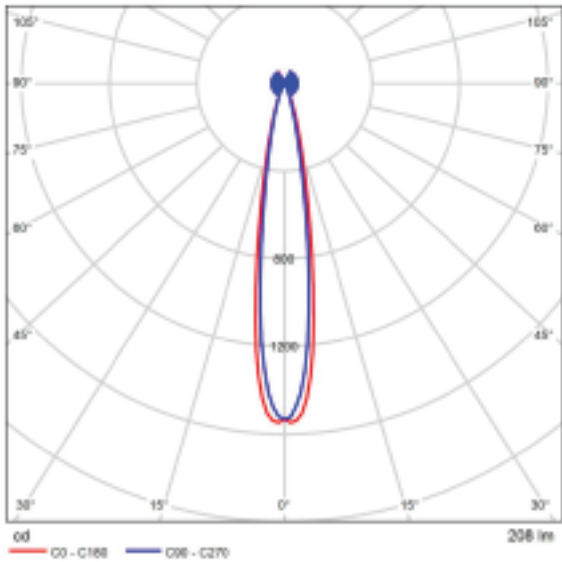
RUG diagram (SHR: 0.25)

Dining Terrace proposed  
Product data sheet

LightGraphix - LD56-C1



|                        |                     |
|------------------------|---------------------|
| Article No.            | LD56-C1-700-LW30-NB |
| P                      | 2.4 W               |
| Φ <sub>Lamp</sub>      | -                   |
| Φ <sub>Luminaire</sub> | 208 lm              |
| η                      | -                   |
| Luminous efficacy      | 86.8 lm/W           |
| CCT                    | 3000 K              |
| CRI                    | 93                  |
| Index                  | EL4                 |



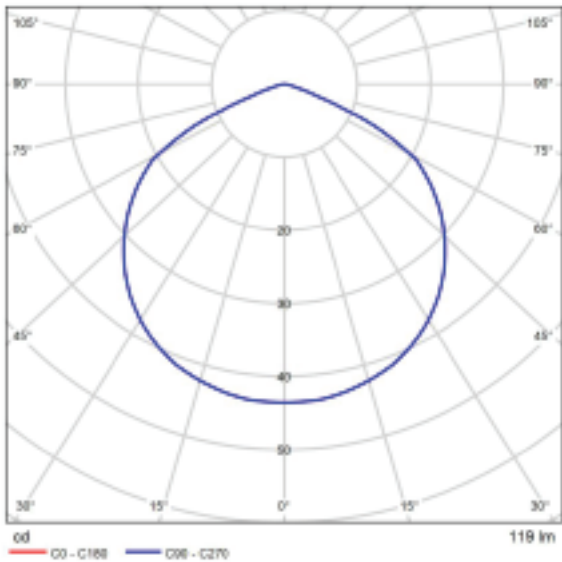
Polar LDC

Product data sheet

Lucent Lighting Ltd - Vista Mini Flood 2700K



|                        |           |
|------------------------|-----------|
| Article No.            | VF002-27  |
| P                      | 1.5 W     |
| Φ <sub>Lamp</sub>      | -         |
| Φ <sub>Luminaire</sub> | 119 lm    |
| η                      | -         |
| Luminous efficacy      | 79.1 lm/W |
| CCT                    | 3000 K    |
| CRI                    | 80        |
| Index                  | EL6       |

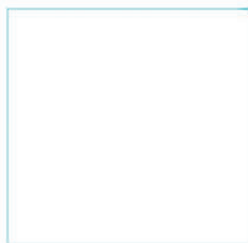


Polar LDC

Dining Terrace existing

Site 1 (Light scene 1)

Dining Area

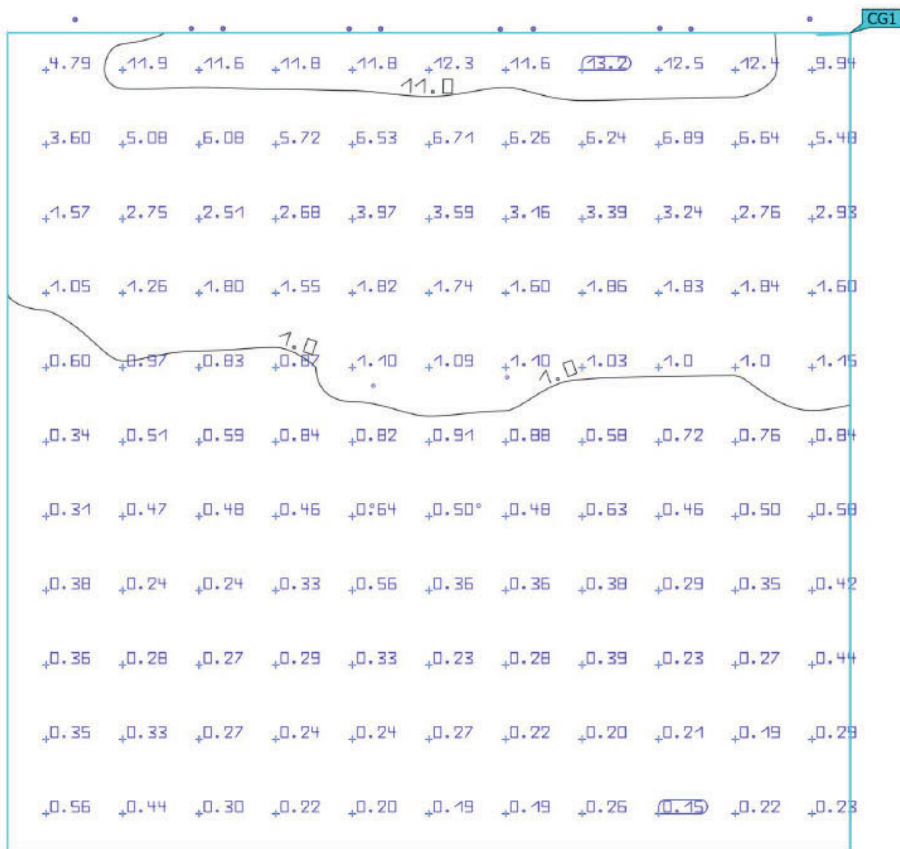


| Properties                                               | $\bar{E}$ | $E_{min}$ | $E_{max}$ | $U_o (g_1)$ | $g_2$ | Index |
|----------------------------------------------------------|-----------|-----------|-----------|-------------|-------|-------|
| Dining Area Horizontal<br>illuminance Height:<br>0.910 m | 9.75 lx   | 4.52 lx   | 84.1 lx   | 0.46        | 0.054 | CG1   |

Dining Terrace proposed

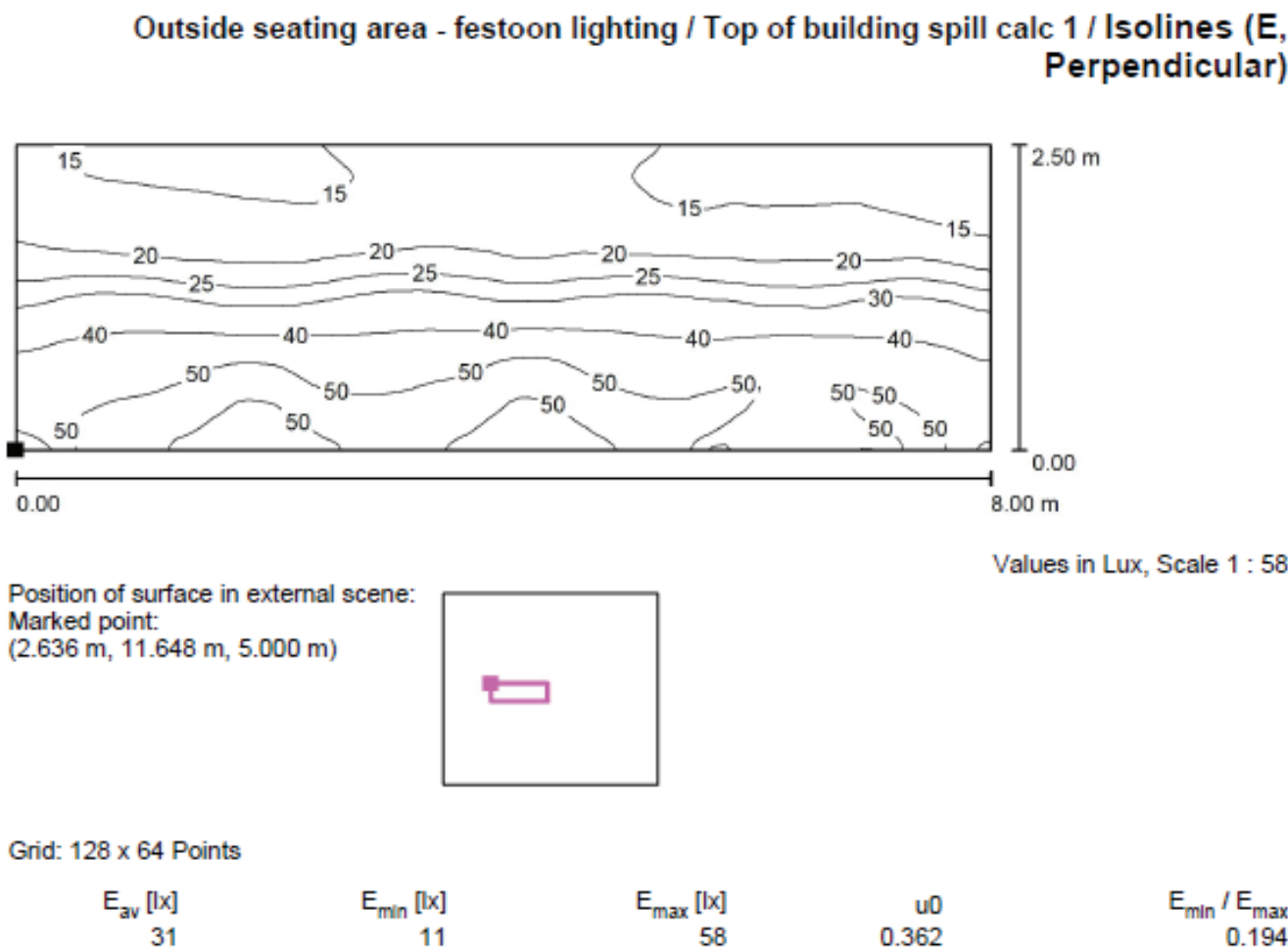
Site 1 (Light scene 1)

Dining Area

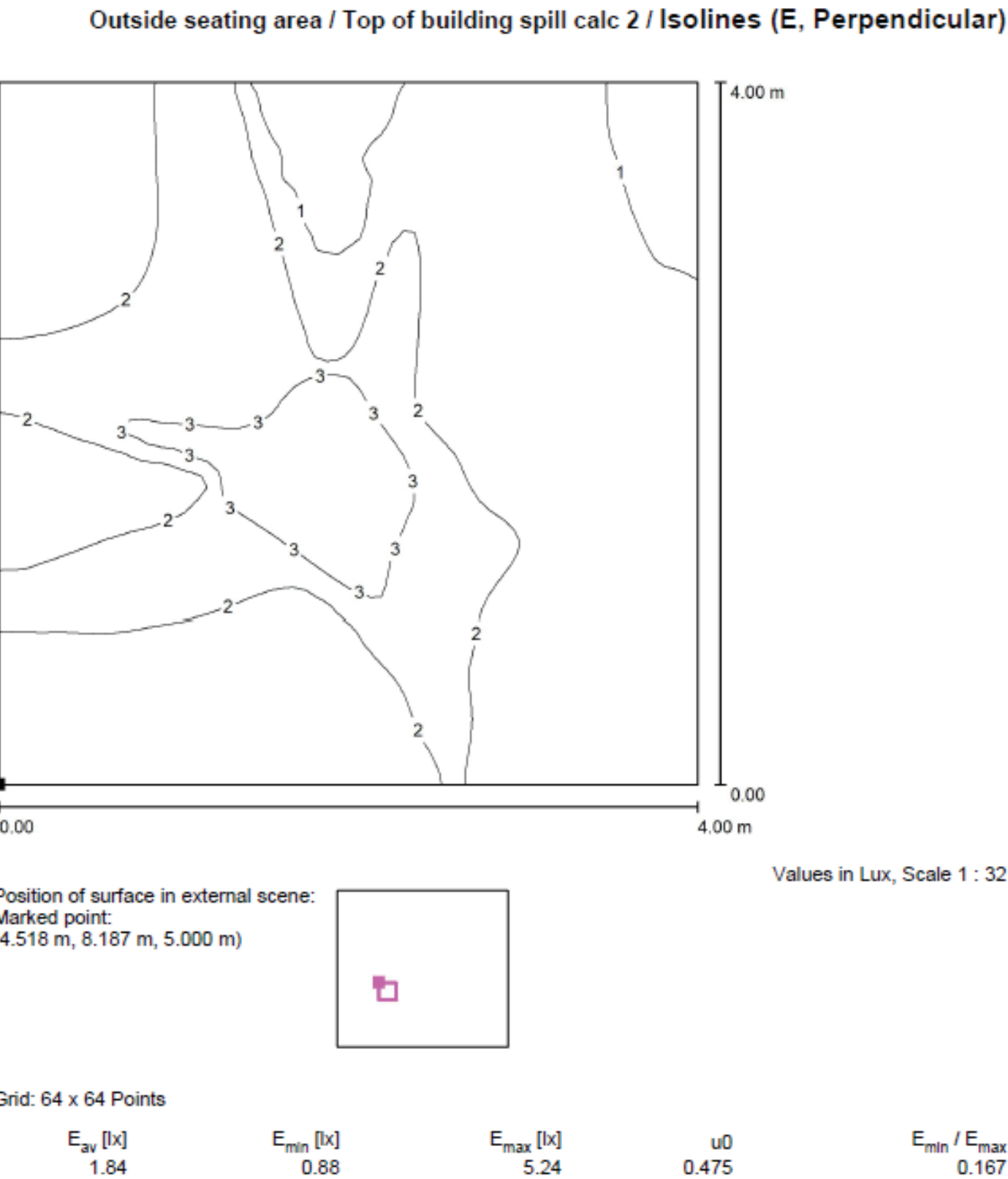


| Properties                                                | $\bar{E}$ | $E_{min}$ | $E_{max}$ | $U_o (g_1)$ | $g_2$ | Index |
|-----------------------------------------------------------|-----------|-----------|-----------|-------------|-------|-------|
| Dianing Area<br>Horizontal illuminance<br>Height: 0.910 m | 2.29 lx   | 0.15 lx   | 13.2 lx   | 0.066       | 0.011 | CG1   |

Dining Terrace existing



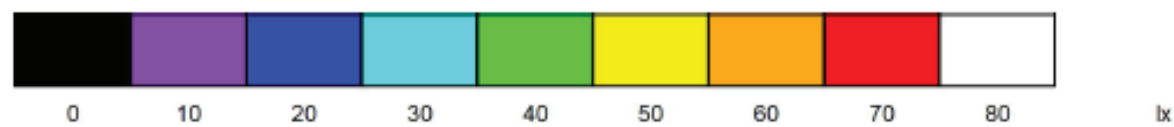
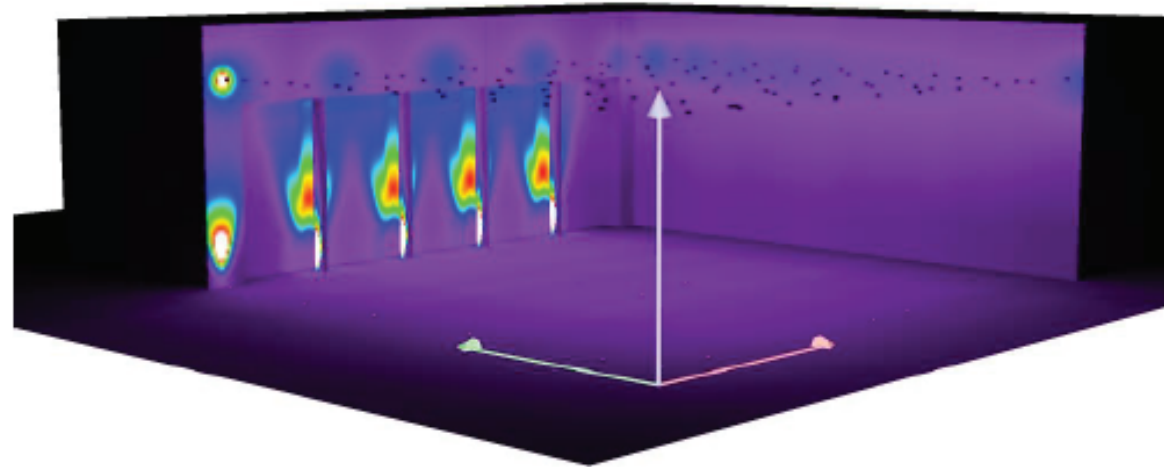
Dining Terrace proposed



# Outdoor dining terrace light plot - Bishopstrow House Exterior

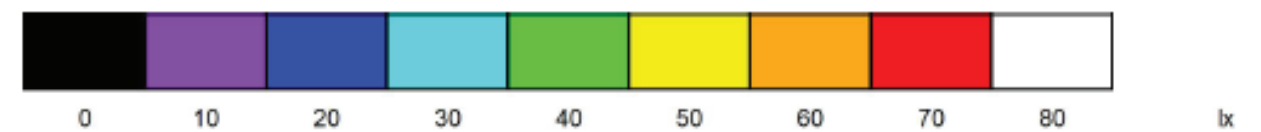
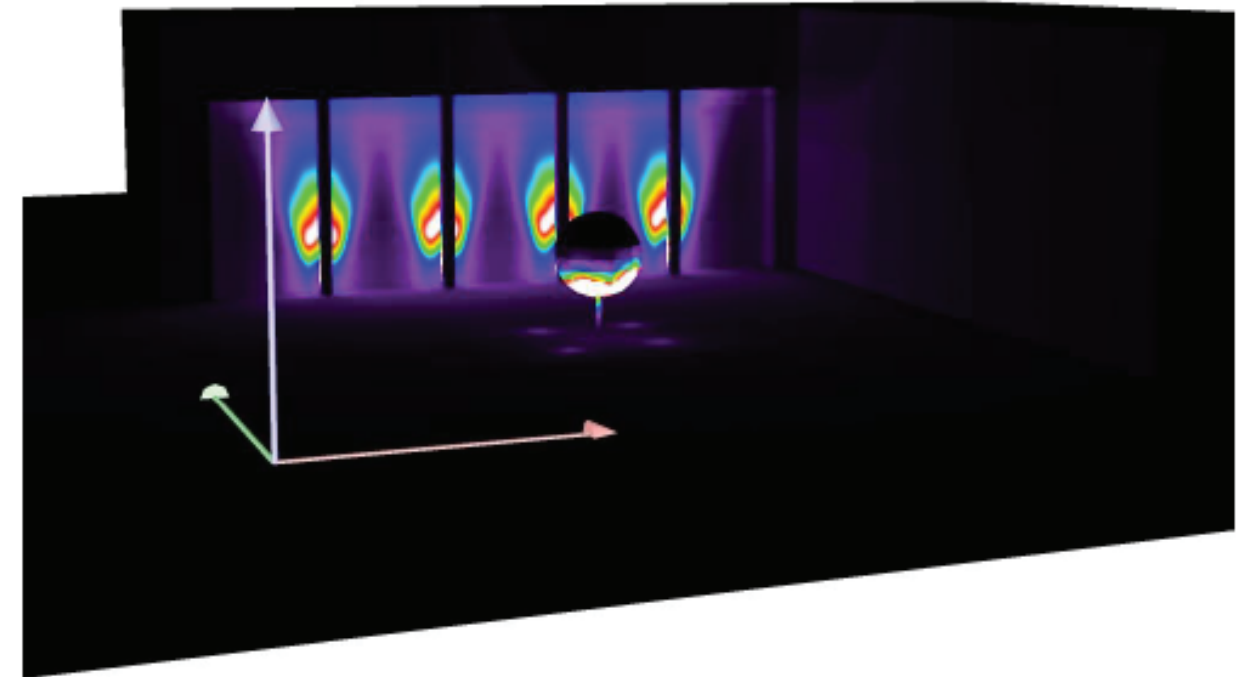
## Dining Terrace existing

Outside seating area - festoon lighting / False Colour Rendering



## Dining Terrace proposed

Outside seating area / False Colour Rendering



# Outside seating area top of building light plot - Bishopstrow House Exterior

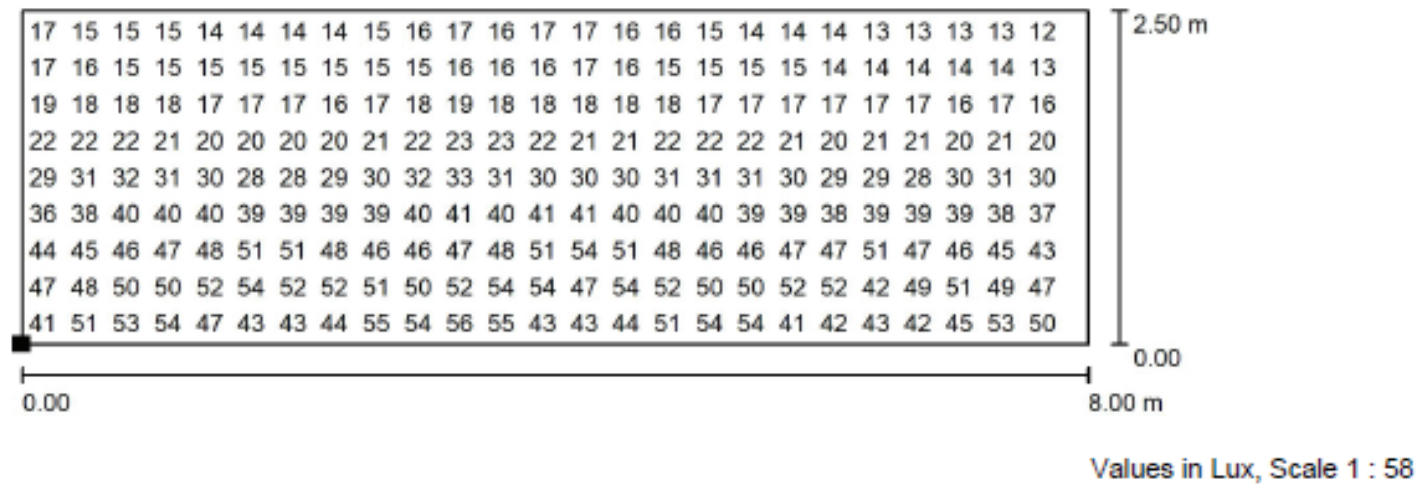


SUSAN LAKE  
LIGHTING DESIGN

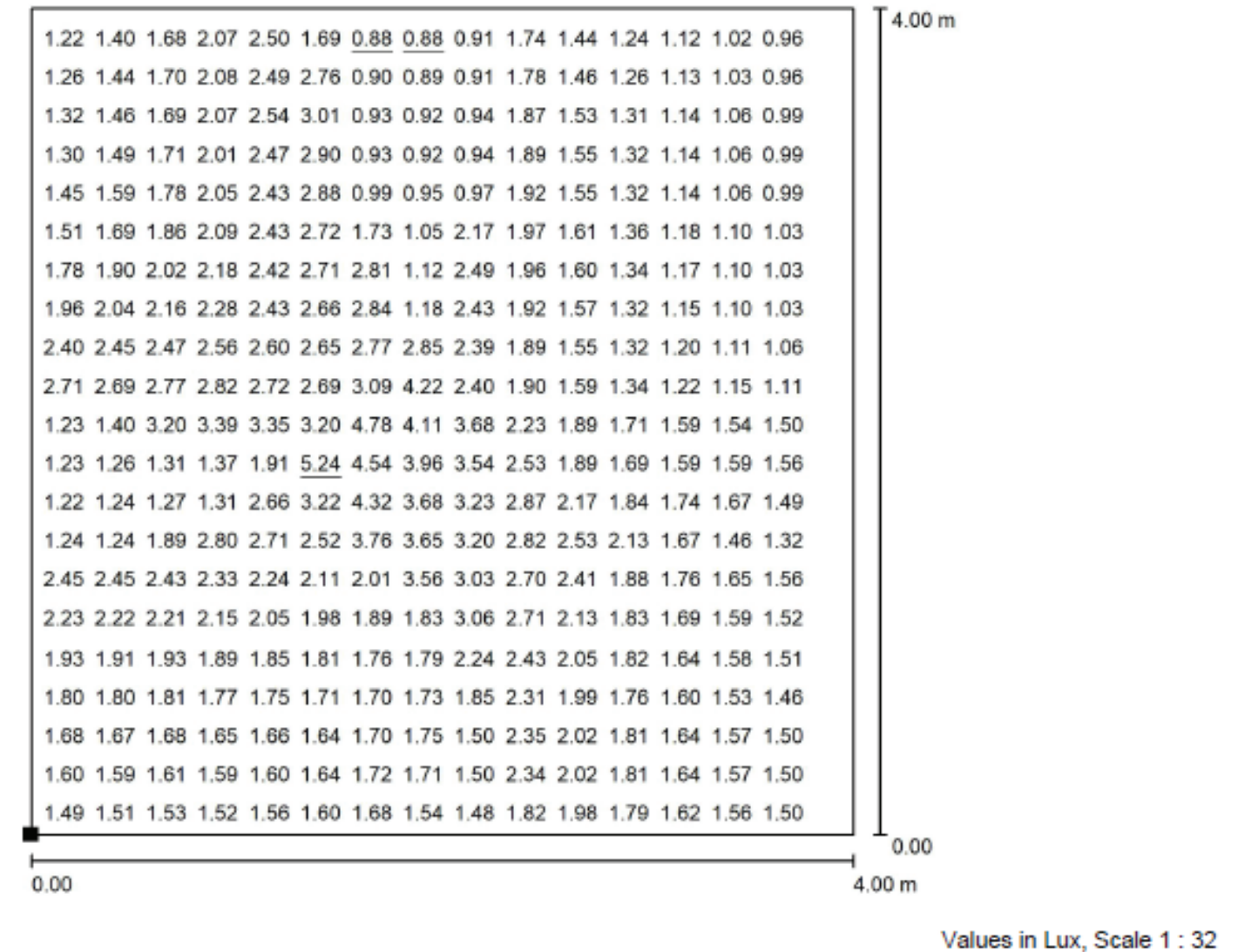
## Outside seating existing

## Outside seating proposed

Outside seating area - festoon lighting / Top of building spill calc 1 / Value Chart (E, Perpendicular)



Outside seating area / Top of building spill calc 2 / Value Chart (E, Perpendicular)

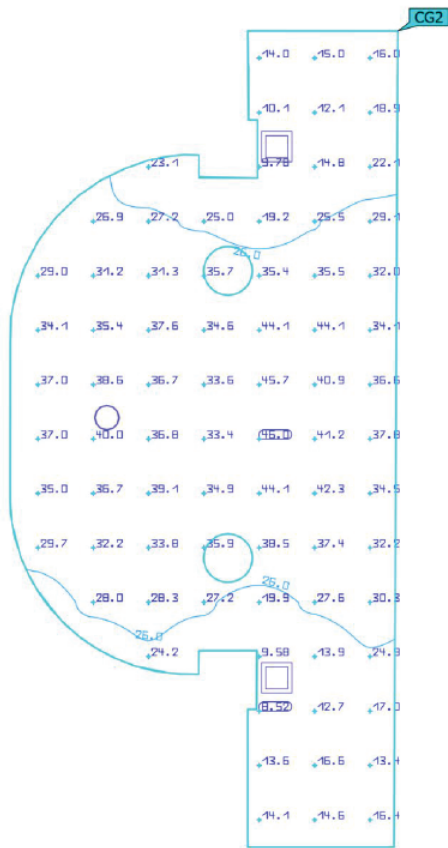
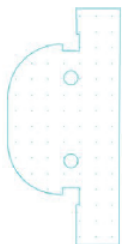


Entrance Light plot - Bishopstrow House Exterior

Entrance existing

Site 1 (Light scene 1)

Entrance

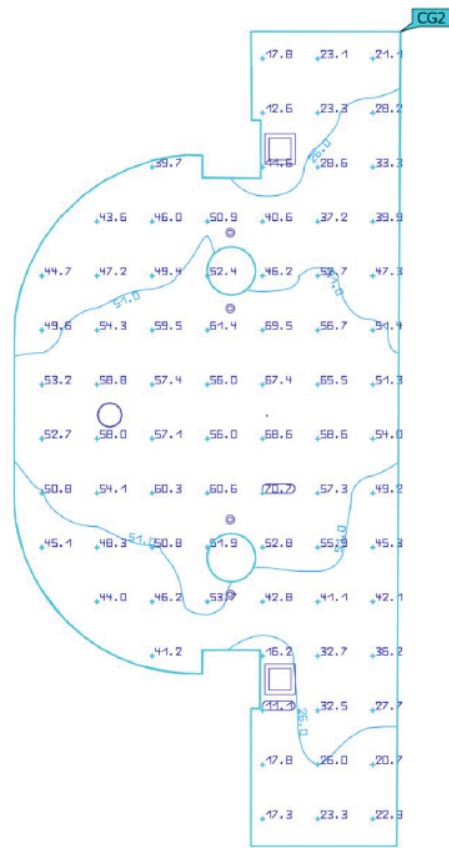
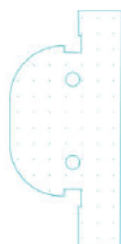


| Properties                                            | $\bar{E}$ | $E_{min}$ | $E_{max}$ | $U_o (g_1)$ | $g_2$ | Index |
|-------------------------------------------------------|-----------|-----------|-----------|-------------|-------|-------|
| Entrance<br>Horizontal illuminance<br>Height: 0.450 m | 28.7 lx   | 8.52 lx   | 46.0 lx   | 0.30        | 0.19  | CG2   |

Entrance proposed

Site 1 (Light scene 1)

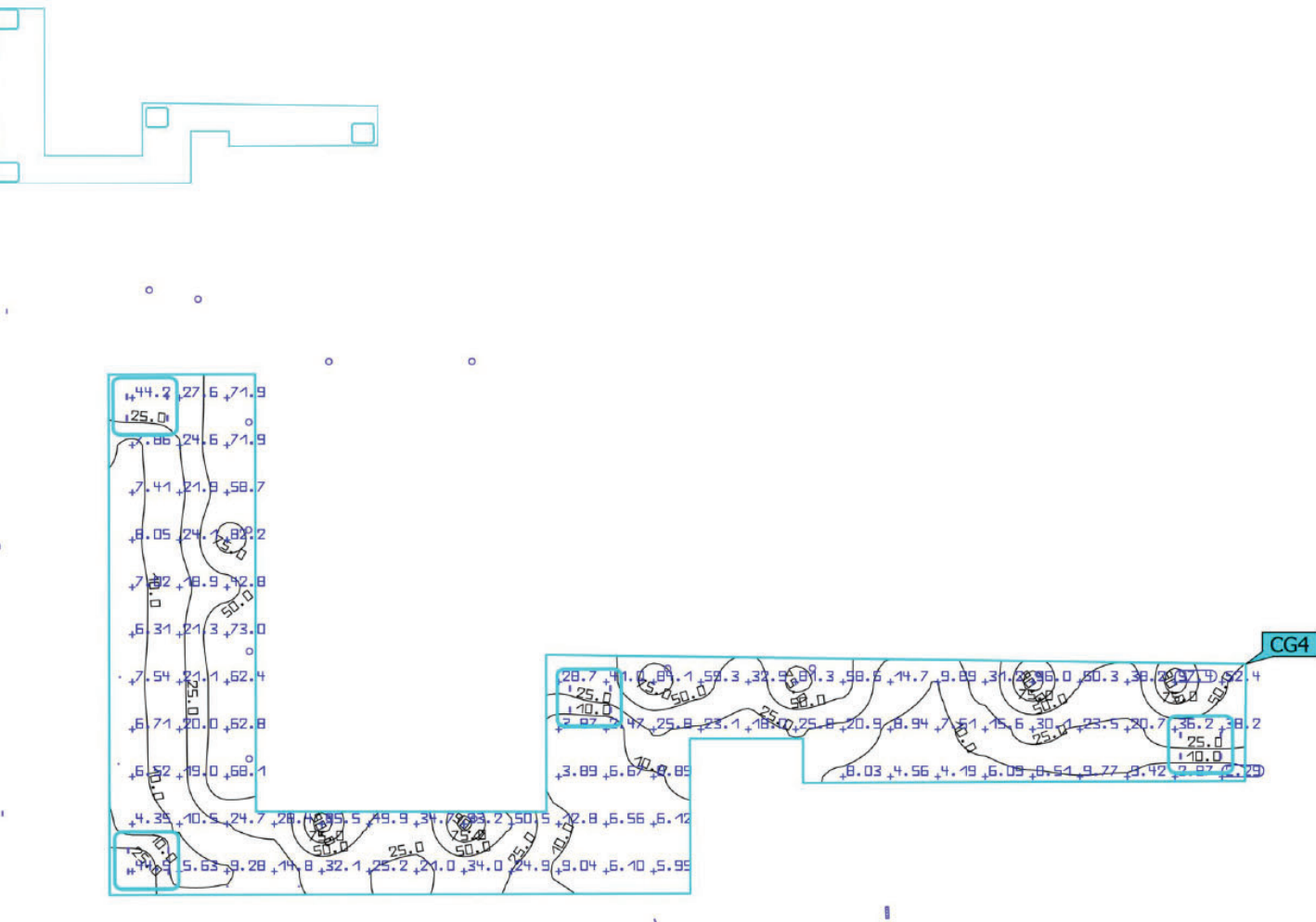
Entrance



| Properties                                            | $\bar{E}$ | $E_{min}$ | $E_{max}$ | $U_o (g_1)$ | $g_2$ | Index |
|-------------------------------------------------------|-----------|-----------|-----------|-------------|-------|-------|
| Entrance<br>Horizontal illuminance<br>Height: 0.450 m | 44.2 lx   | 11.1 lx   | 70.7 lx   | 0.25        | 0.16  | CG2   |

Building perimeter existing

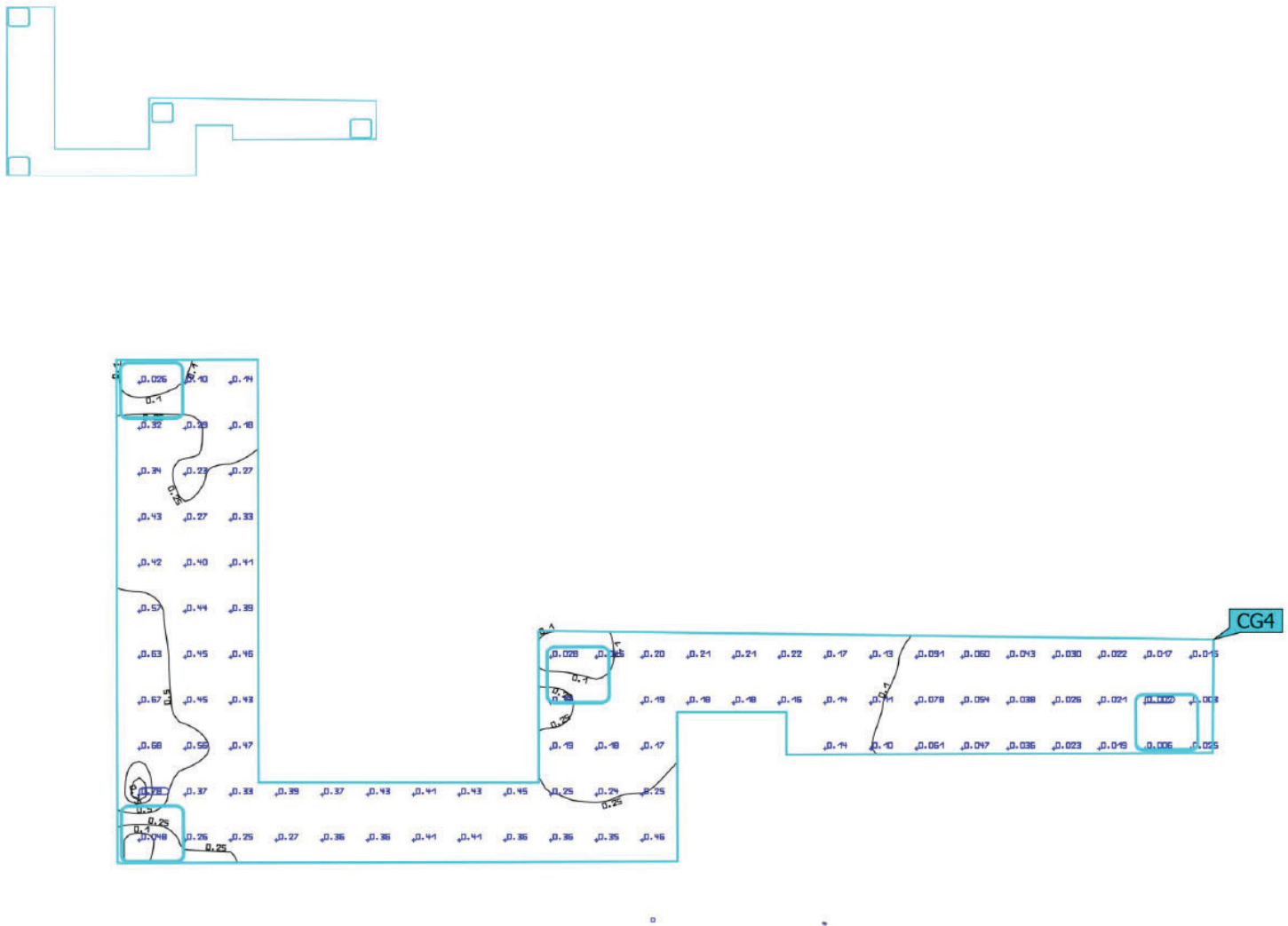
Site 1 (Light scene 1)  
Building Perimeter



| Properties                                                      | $\bar{E}$ | $E_{min}$ | $E_{max}$ | $U_o (g_1)$ | $g_2$ | Index |
|-----------------------------------------------------------------|-----------|-----------|-----------|-------------|-------|-------|
| Building Perimeter<br>Horizontal illuminance<br>Height: 0.100 m | 29.0 lx   | 2.29 lx   | 97.4 lx   | 0.079       | 0.024 | CG4   |

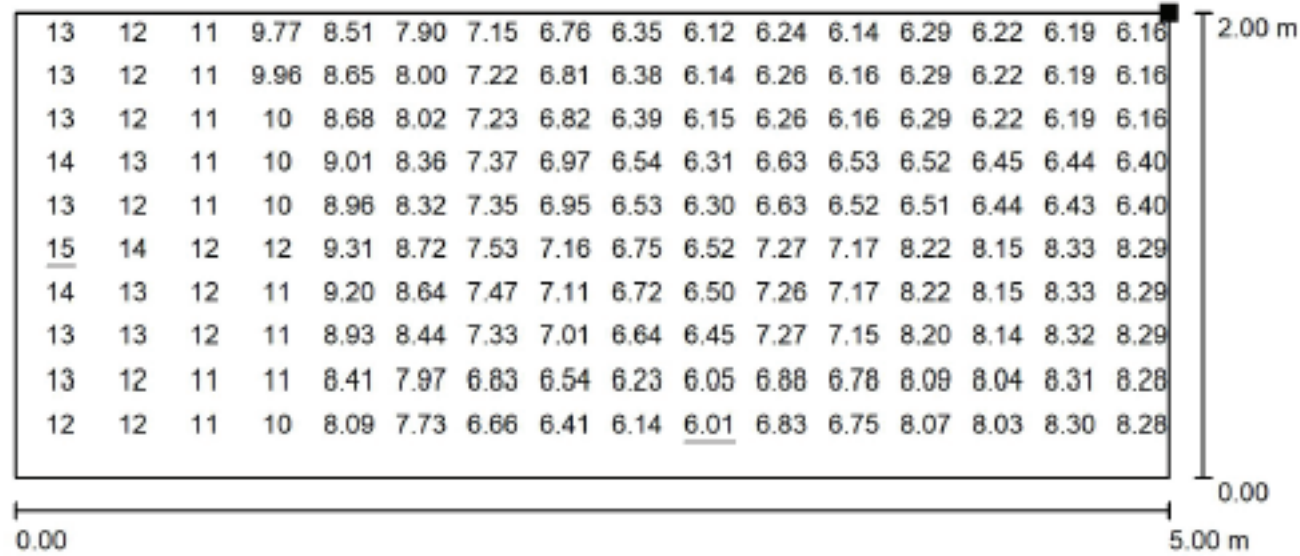
Building perimeter proposed

Site 1 (Light scene 1)  
Building Perimeter



| Properties                                                      | $\bar{E}$ | $E_{min}$ | $E_{max}$ | $U_o (g_1)$ | $g_2$ | Index |
|-----------------------------------------------------------------|-----------|-----------|-----------|-------------|-------|-------|
| Building Perimeter<br>Horizontal illuminance<br>Height: 0.100 m | 0.25 lx   | 0.002 lx  | 0.78 lx   | 0.008       | 0.003 | CG4   |

Suite lighting / Spill calc at 4.5m / Value Chart (E, Perpendicular)



Values in Lux, Scale 1 : 36

Not all calculated values could be displayed.

Position of surface in external scene:

Marked point:

(10.874 m, -0.237 m, 4.500 m)



Grid: 64 x 32 Points

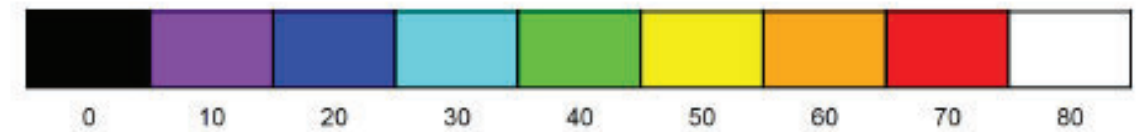
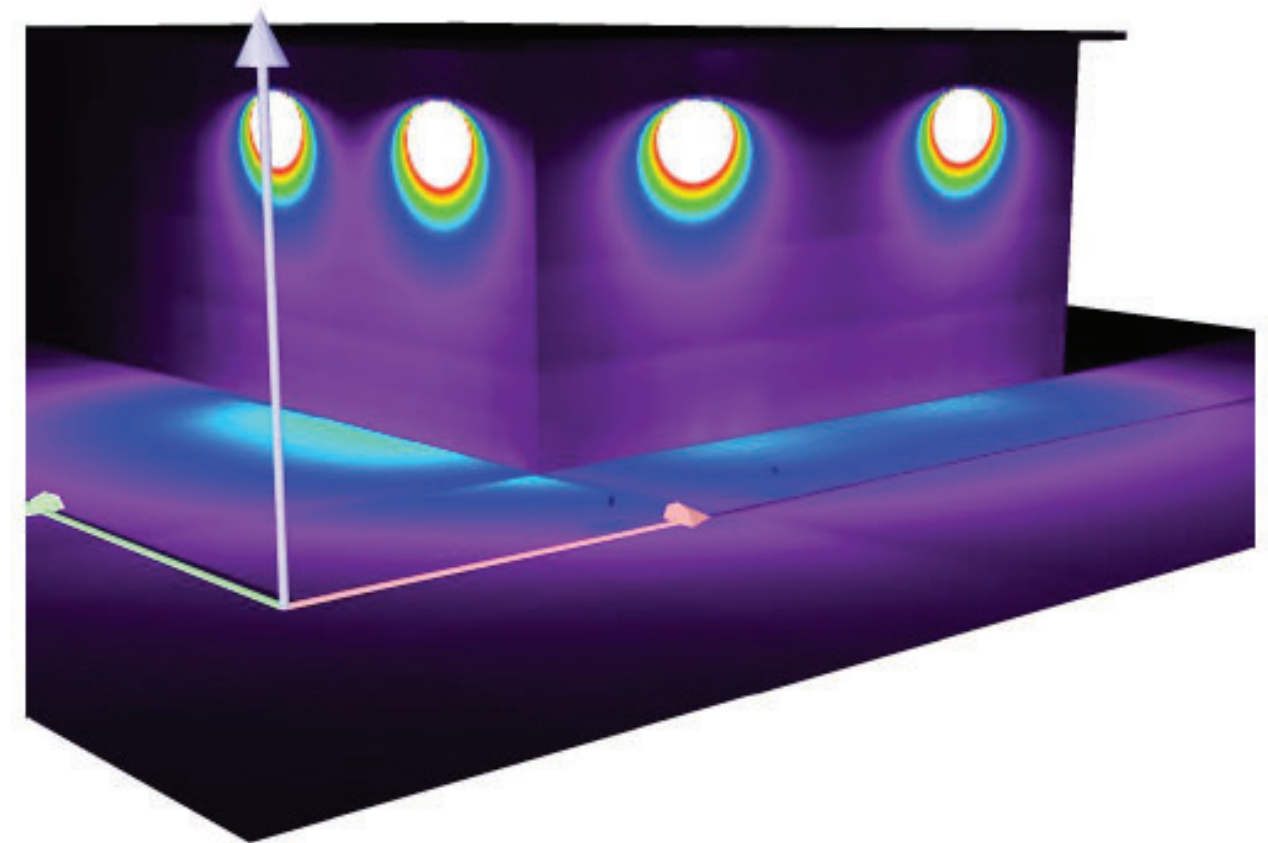
$E_{av}$  [lx]  
8.40

$E_{min}$  [lx]  
6.01

$E_{max}$  [lx]  
15

$u0$   
0.715

$E_{min} / E_{max}$   
0.408



# Walkway Product Data Sheet - Bishopstrow House Exterior



**SUSAN LAKE**  
LIGHTING DESIGN

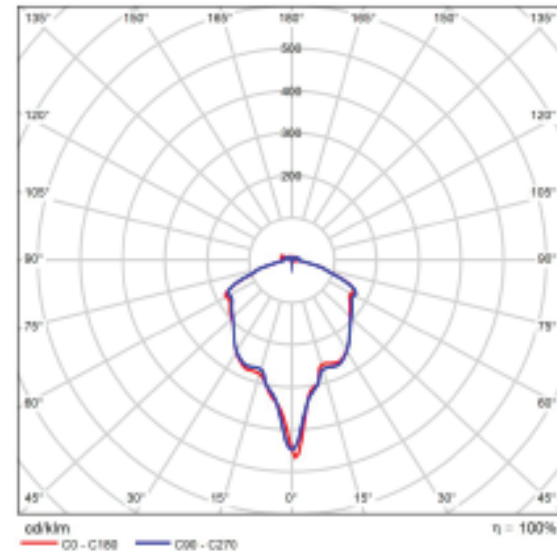
## Walkway existing

## Product data sheet

John Cullen Lighting - Portobello



|                    |           |
|--------------------|-----------|
| Article No.        | GLPBX0001 |
| P                  | 2.1 W     |
| $\Phi_{Lamp}$      | 49 lm     |
| $\Phi_{Luminaire}$ | 49 lm     |
| $\eta$             | 100.01 %  |
| Luminous efficacy  | 23.4 lm/W |
| CCT                | 3052 K    |
| CRI                | 95        |
| Index              | H         |



### Polar LDC

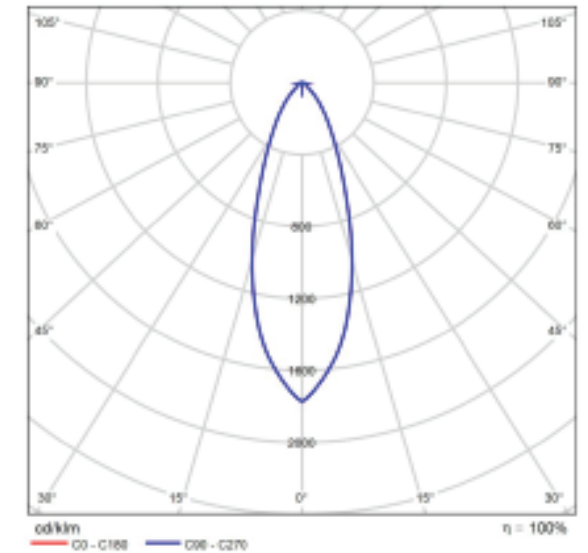
## Walkway proposed

## Product data sheet

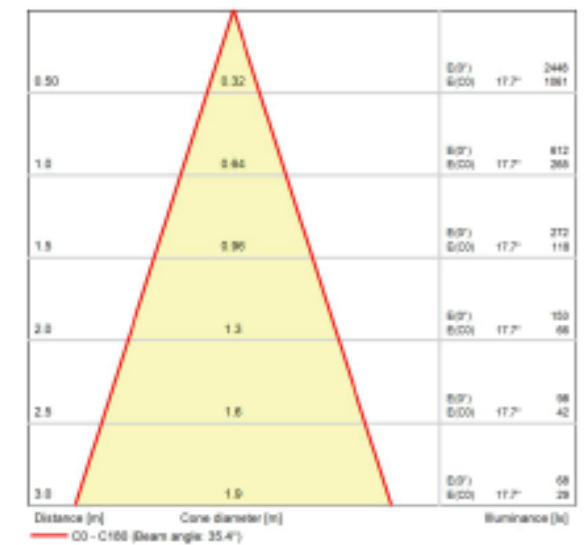
Signify -



|                           |           |
|---------------------------|-----------|
| P                         | 4.0 W     |
| $\Phi_{\text{Lamp}}$      | 345 lm    |
| $\Phi_{\text{Luminaire}}$ | 344 lm    |
| $\eta$                    | 99.81 %   |
| Luminous efficacy         | 86.1 lm/W |
| CCT                       | 3000 K    |
| CRI                       | 100       |



### Polar LDC

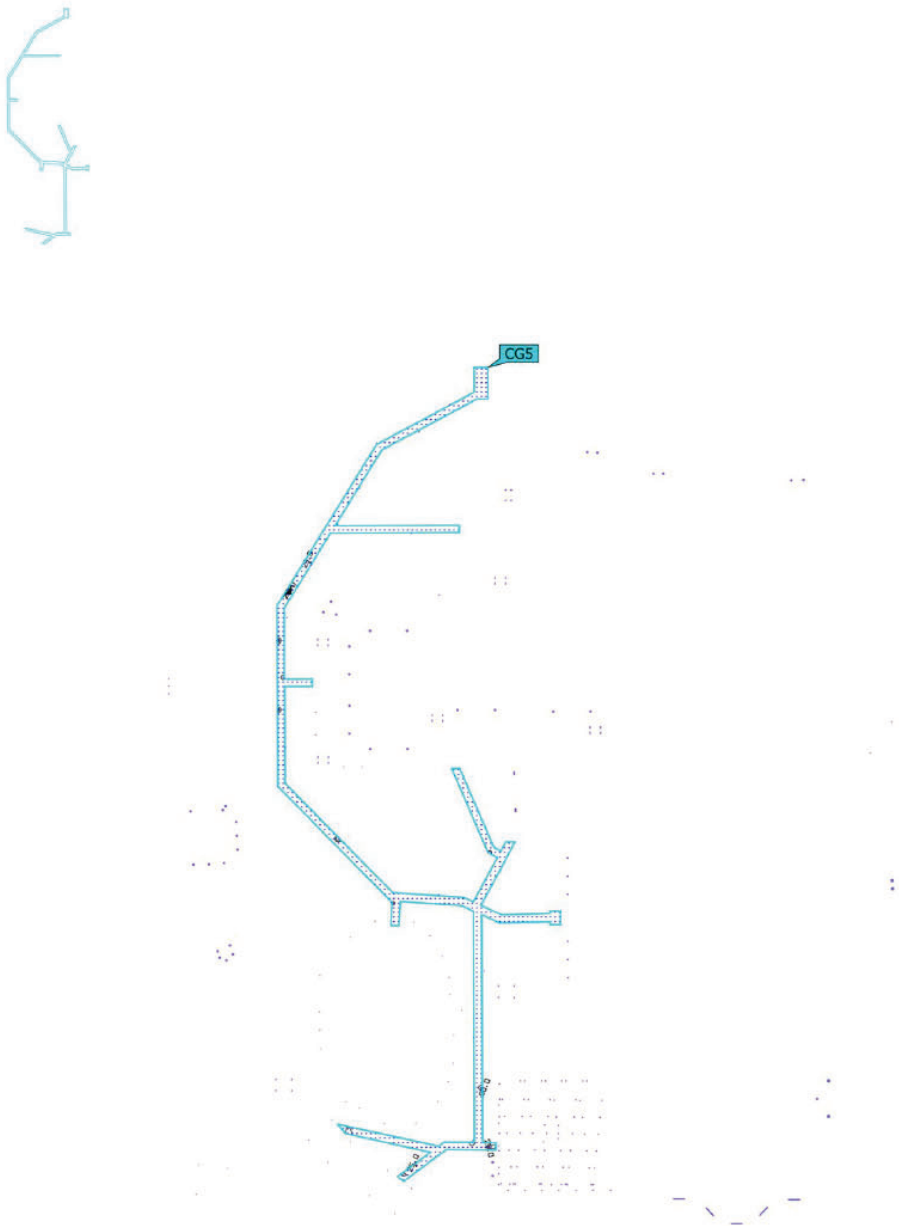


Cone diagram

Walkway existing

Site 1 (Light scene 1)

Walkway

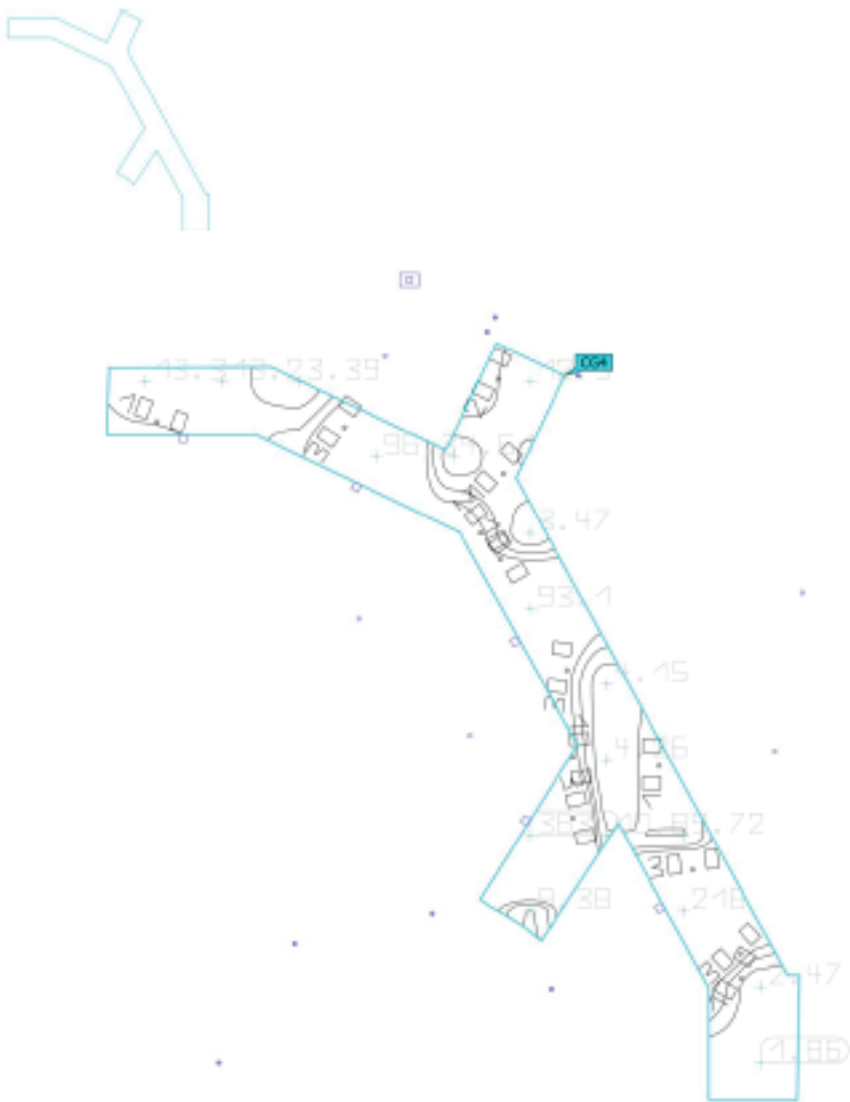


| Properties                                           | E       | E <sub>min</sub> | E <sub>max</sub> | U <sub>0</sub> (g <sub>1</sub> ) | g <sub>2</sub> | Index |
|------------------------------------------------------|---------|------------------|------------------|----------------------------------|----------------|-------|
| Walkway<br>Horizontal illuminance<br>Height: 0.150 m | 3.70 lx | 0.020 lx         | 237 lx           | 0.005                            | 0.000          | CG5   |

Walkway proposed

Site 1 (Light scene 1)

Walkway-2



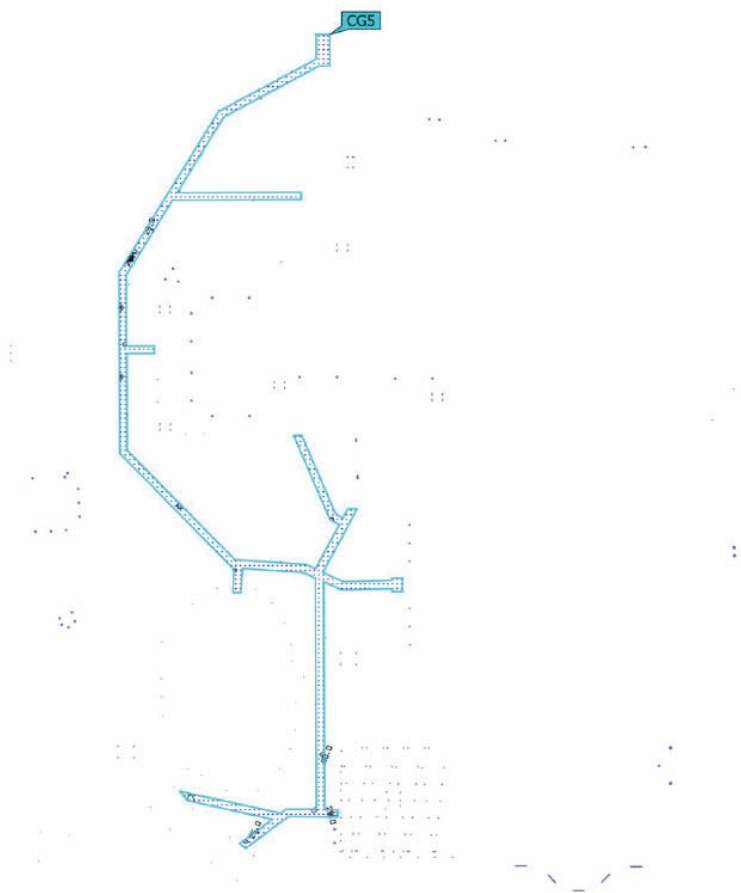
| Properties                                                | E       | E <sub>min</sub> | E <sub>max</sub> | U <sub>0</sub> (g <sub>1</sub> ) | g <sub>2</sub> | Index |
|-----------------------------------------------------------|---------|------------------|------------------|----------------------------------|----------------|-------|
| Walkway-2<br>Perpendicular illuminance<br>Height: 0.000 m | 50.7 lx | 1.86 lx          | 363 lx           | 0.037                            | 0.005          | CG4   |

Utilisation profile: DIALux presetting (5.1.4 Standard (outdoor transportation area))

Walkway existing

Site 1 (Light scene 1)

Walkway

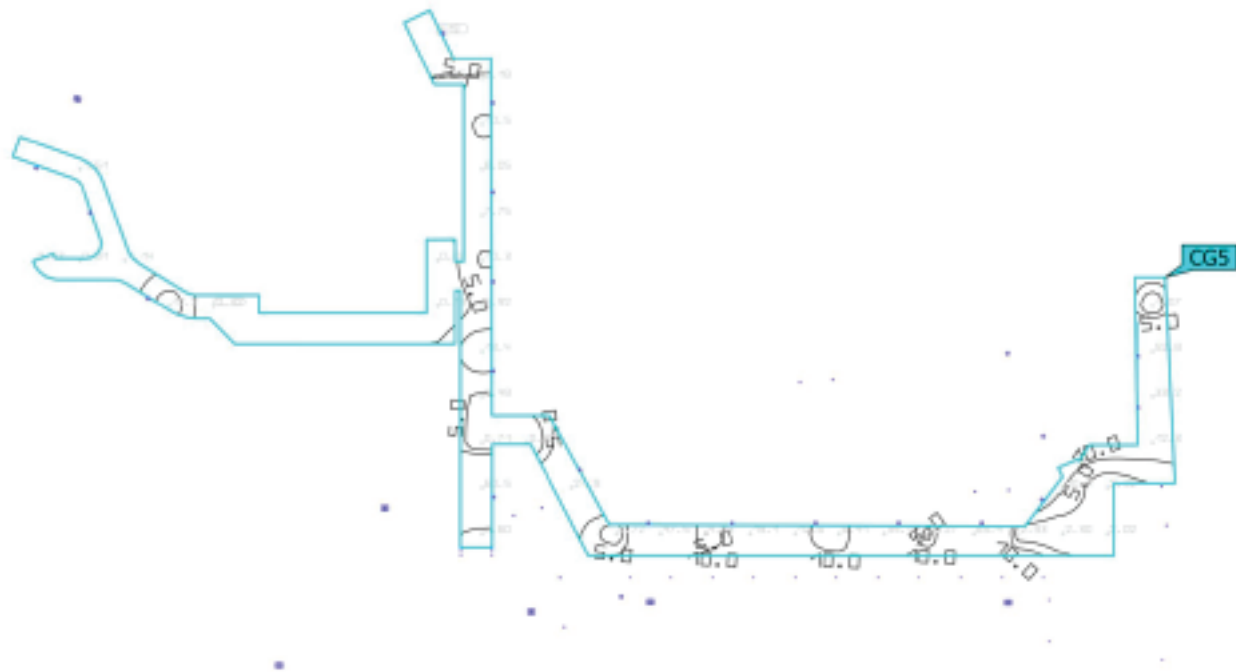


| Properties                                           | $\bar{E}$ | $E_{min}$ | $E_{max}$ | $U_o (g_1)$ | $g_2$ | Index |
|------------------------------------------------------|-----------|-----------|-----------|-------------|-------|-------|
| Walkway<br>Horizontal illuminance<br>Height: 0.150 m | 3.70 lx   | 0.020 lx  | 237 lx    | 0.005       | 0.000 | CG5   |

Walkway proposed

Site 1 (Light scene 1)

Walkway-3



| Properties                                                | $\bar{E}$ | $E_{min}$ | $E_{max}$ | $U_o (g_1)$ | $g_2$ | Index |
|-----------------------------------------------------------|-----------|-----------|-----------|-------------|-------|-------|
| Walkway-3<br>Perpendicular illuminance<br>Height: 0.100 m | 22.7 lx   | 0.32 lx   | 419 lx    | 0.014       | 0.001 | CG5   |

Utilisation profile: DIALux presetting (5.1.4 Standard (outdoor transportation area))

Walkway existing

Site 1 (Light scene 1)

Walkway

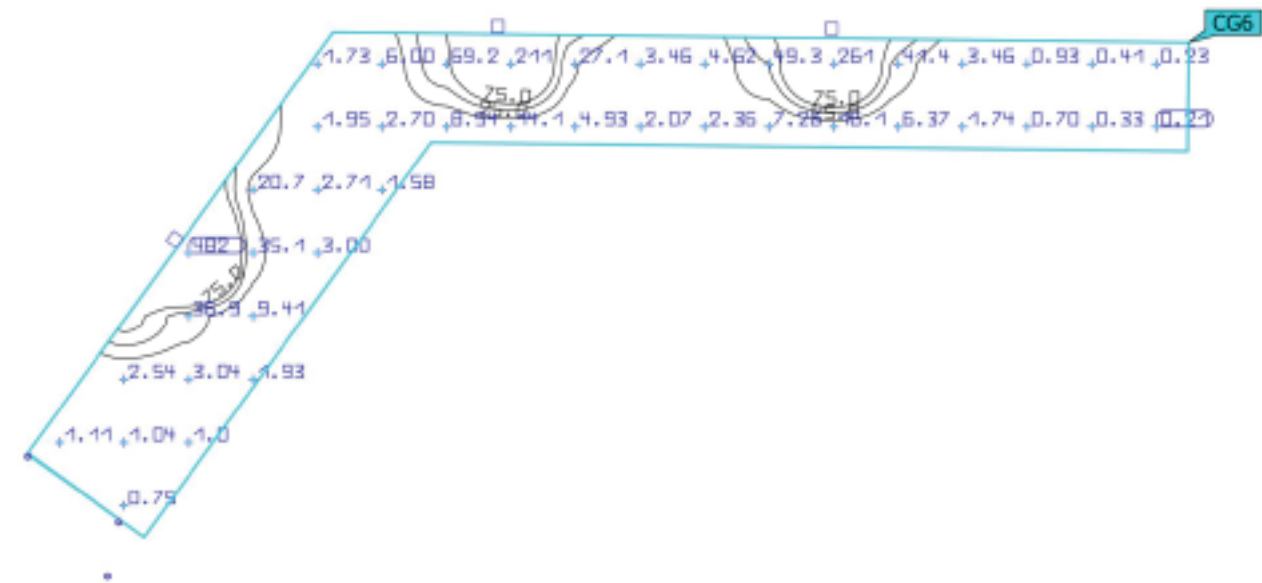


| Properties                                           | $\bar{E}$ | $E_{min}$ | $E_{max}$ | $U_o (g_1)$ | $g_2$ | Index |
|------------------------------------------------------|-----------|-----------|-----------|-------------|-------|-------|
| Walkway<br>Horizontal illuminance<br>Height: 0.150 m | 3.70 lx   | 0.020 lx  | 237 lx    | 0.005       | 0.000 | CG5   |

Walkway proposed

Site 1 (Light scene 1)

Calculation surface 14



| Properties                                                          | $\bar{E}$ | $E_{min}$ | $E_{max}$ | $U_o (g_1)$ | $g_2$ | Index |
|---------------------------------------------------------------------|-----------|-----------|-----------|-------------|-------|-------|
| Calculation surface 14<br>Horizontal illuminance<br>Height: 0.100 m | 31.4 lx   | 0.21 lx   | 482 lx    | 0.007       | 0.000 | CG6   |

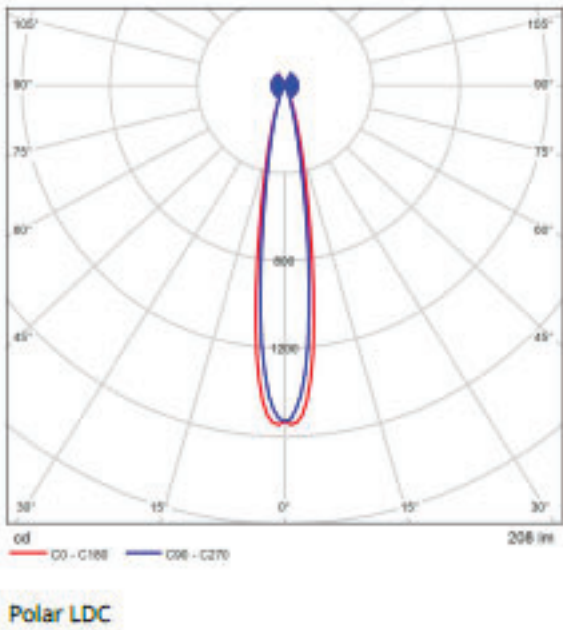
Utilisation profile: DIALux presetting (5.1.4 Standard (outdoor transportation area))

Product data sheet

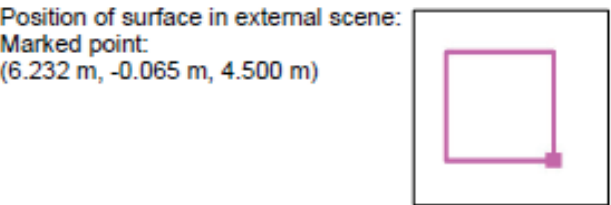
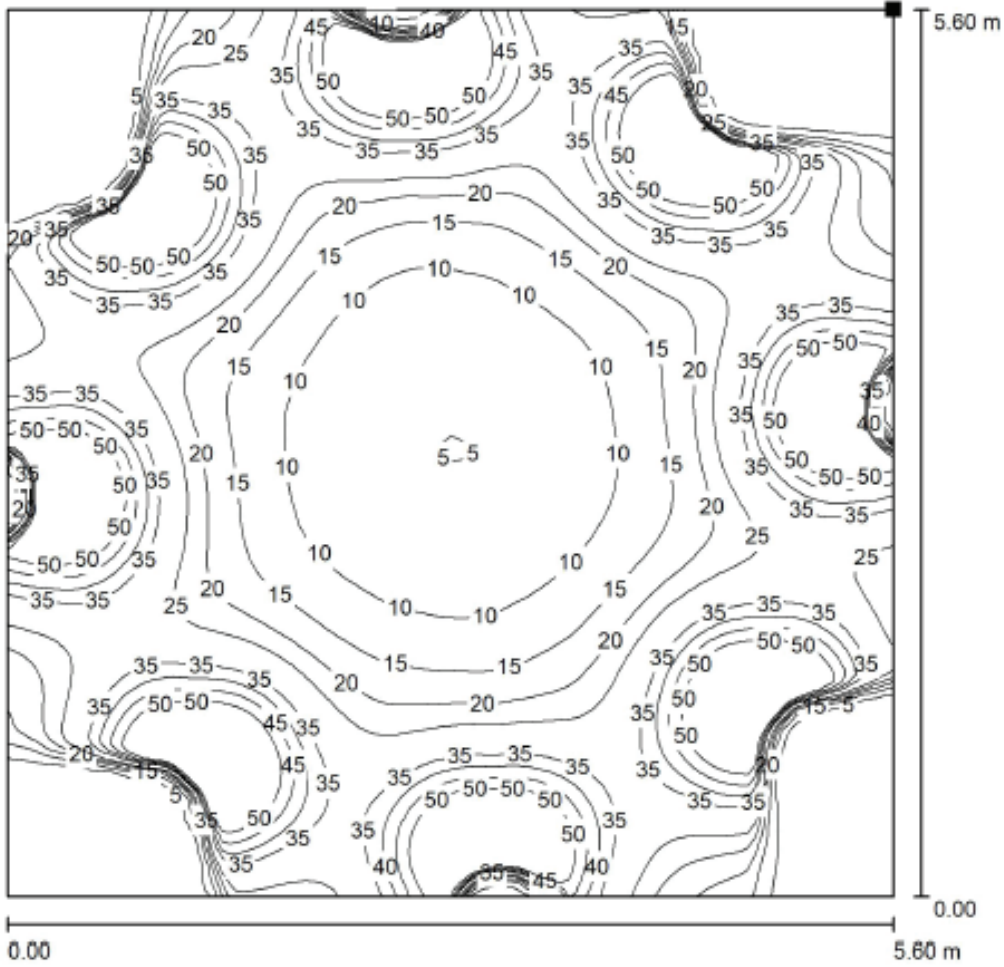
LightGraphix - LD56-C1



|                    |                     |
|--------------------|---------------------|
| Article No.        | LD56-C1-700-LW30-NB |
| P                  | 2.4 W               |
| $\Phi_{Lamp}$      | -                   |
| $\Phi_{Luminaire}$ | 208 lm              |
| $\eta$             | -                   |
| Luminous efficacy  | 86.8 lm/W           |
| CCT                | 3000 K              |
| CRI                | 93                  |
| Index              | EL4                 |



Uplighting to pegoda / Calc surface above pergola / Isolines (E, Perpendicular)



Grid: 128 x 128 Points

|               |                |                |       |                     |
|---------------|----------------|----------------|-------|---------------------|
| $E_{av}$ [lx] | $E_{min}$ [lx] | $E_{max}$ [lx] | $u0$  | $E_{min} / E_{max}$ |
| 26            | 1.26           | 67             | 0.049 | 0.019               |

Tree uplights existing

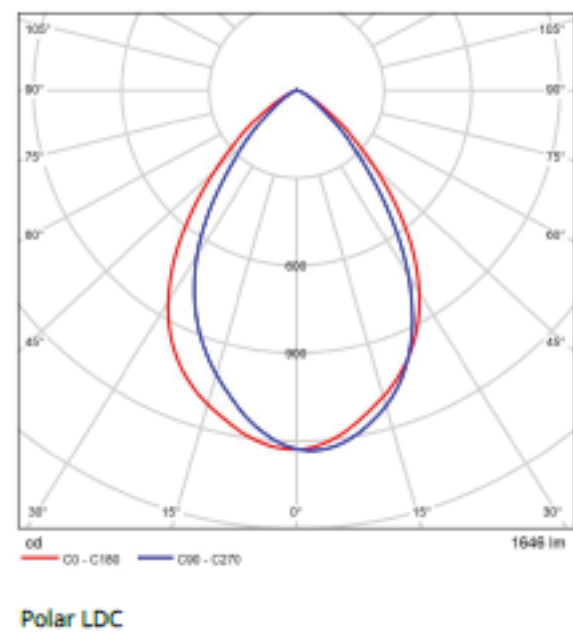
Product data sheet

Philips -



PHILIPS  
a lighting brand by @Ignify

|                        |                                                           |
|------------------------|-----------------------------------------------------------|
| Article No.            | ColorBurst IntelliHue<br>Powercore, gen3<br>FULL ON 60X60 |
| P                      | 31.3 W                                                    |
| Φ <sub>Lamp</sub>      | -                                                         |
| Φ <sub>Luminaire</sub> | 1646 lm                                                   |
| η                      | -                                                         |
| Luminous efficacy      | 52.6 lm/W                                                 |
| CCT                    | 3000 K                                                    |
| CRI                    | 100                                                       |
| Index                  | F                                                         |



Polar LDC

Tree uplights proposed

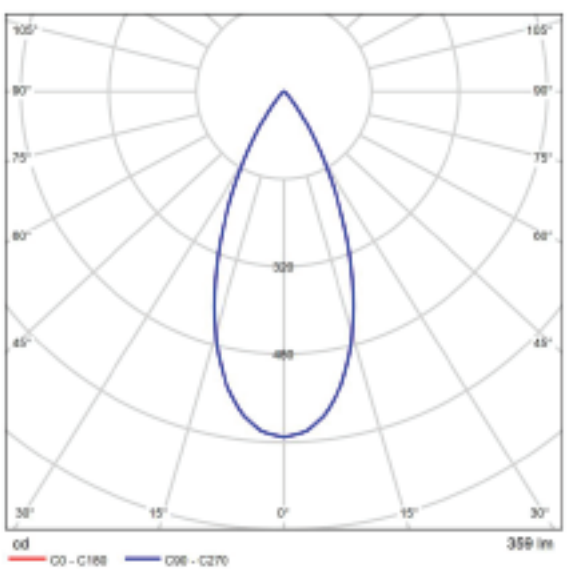
Product data sheet

Lucent Lighting Ltd - Vista Spot 2700K 40deg beam shaper



lucent®

|                        |             |
|------------------------|-------------|
| Article No.            | VS001-27-40 |
| P                      | 8.5 W       |
| Φ <sub>Lamp</sub>      | -           |
| Φ <sub>Luminaire</sub> | 359 lm      |
| η                      | -           |
| Luminous efficacy      | 42.2 lm/W   |
| CCT                    | 3000 K      |
| CRI                    | 80          |
| Index                  | EL7         |

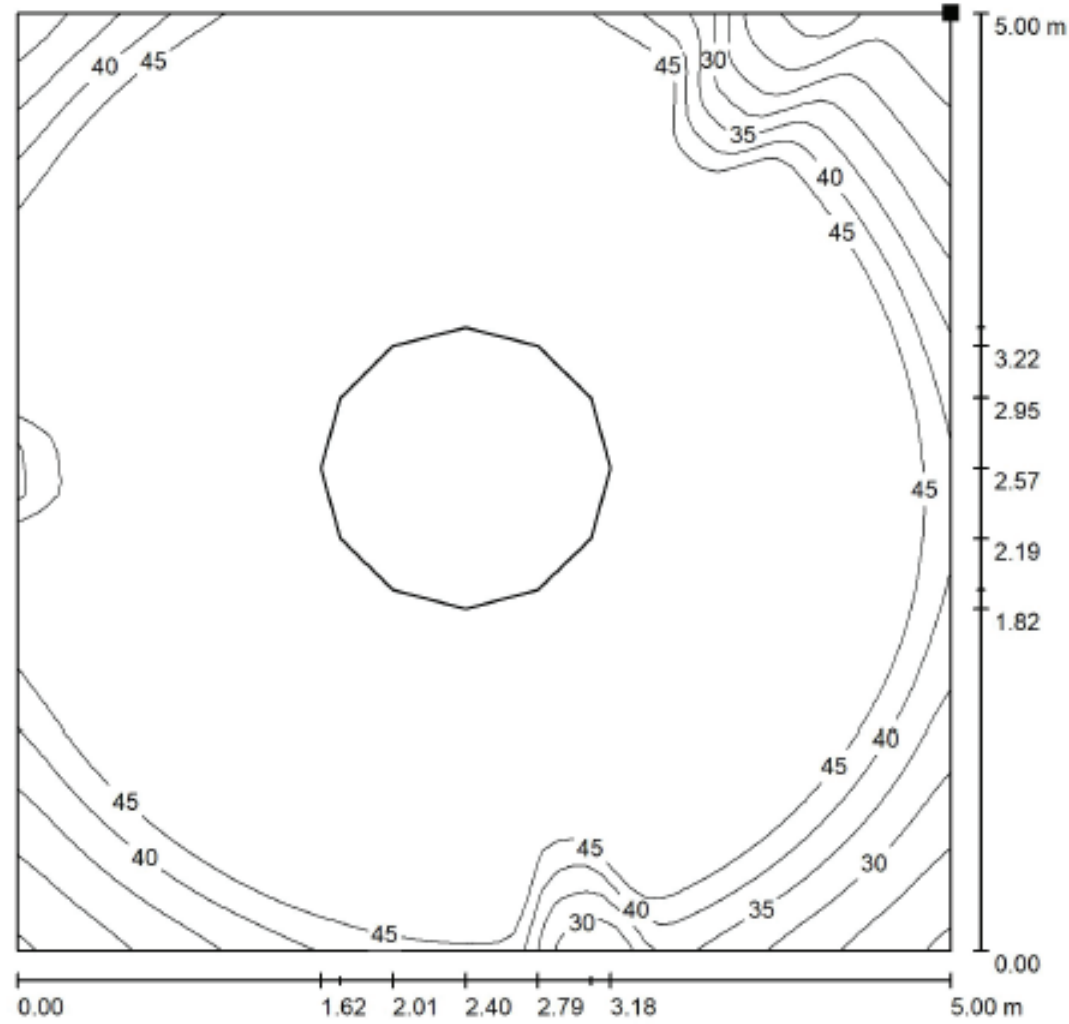


Polar LDC

# Tree uplight light plot - Bishopstrow House Exterior

## Tree uplights existing

Uplights to trees / spill to canopy @3.8m / Isolines (E, Perpendicular)



Values in Lux, Scale 1 : 40

Position of surface in external scene:  
Marked point:  
(28.130 m, 22.578 m, 3.800 m)

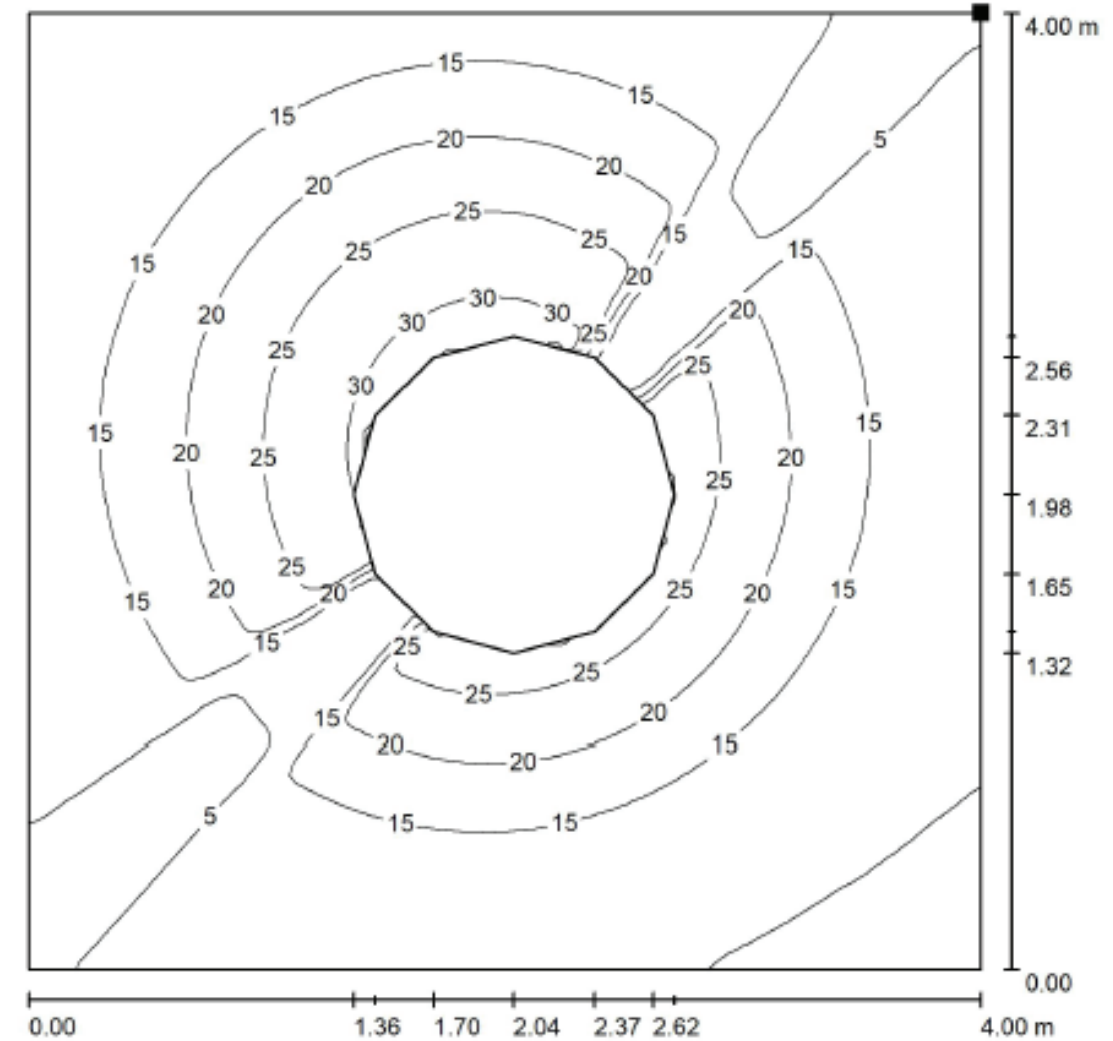


Grid: 64 x 64 Points

|               |                |                |       |                     |
|---------------|----------------|----------------|-------|---------------------|
| $E_{av}$ [lx] | $E_{min}$ [lx] | $E_{max}$ [lx] | $u0$  | $E_{min} / E_{max}$ |
| 64            | 12             | 111            | 0.183 | 0.106               |

## Tree uplights proposed

Uplights to trees / Calc surface in tree canopy @3.8m / Isolines (E, Perpendicular)



Values in Lux, Scale 1 : 32

Position of surface in external scene:  
Marked point:  
(28.545 m, 24.587 m, 3.800 m)



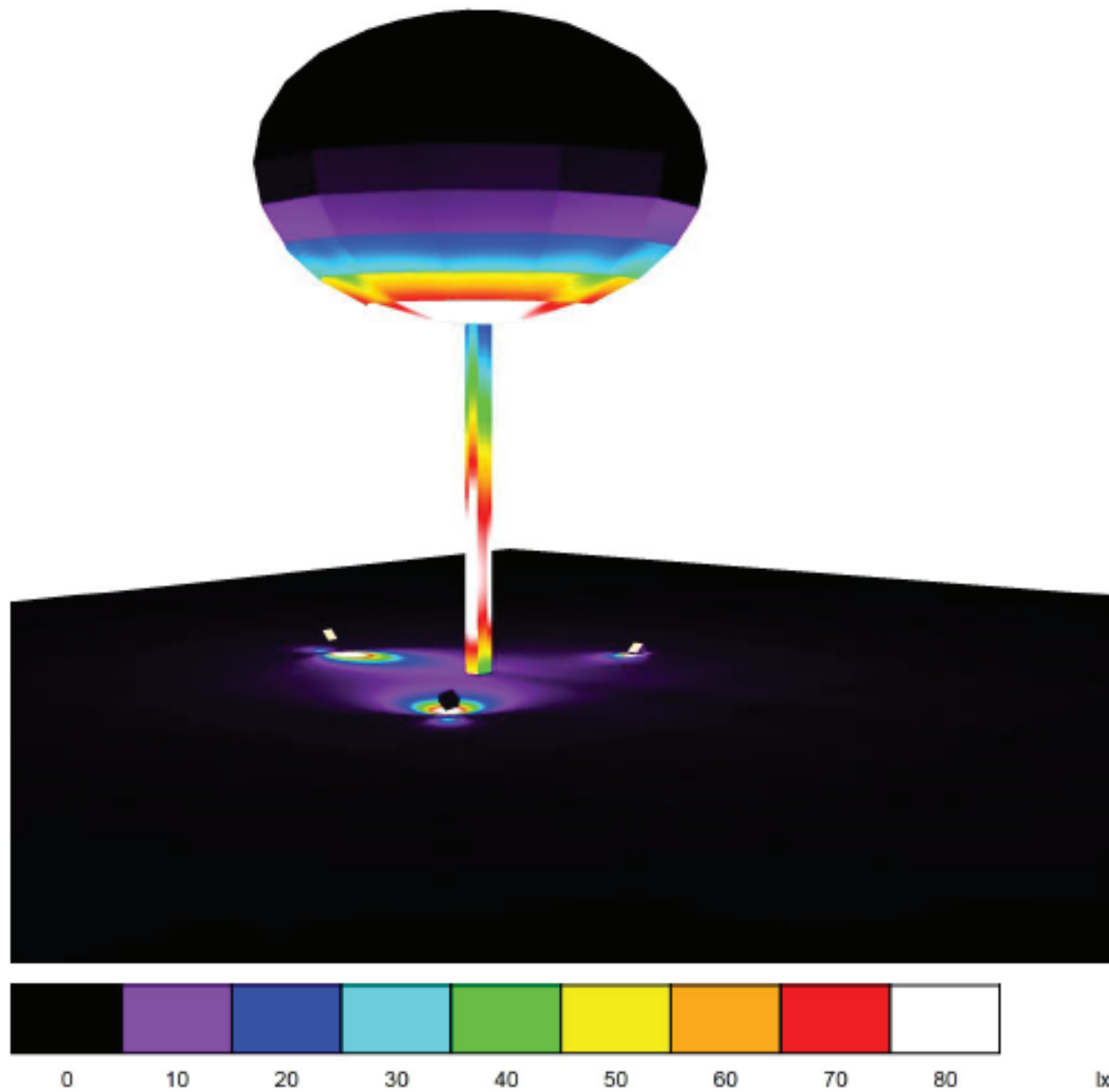
Grid: 128 x 128 Points

|               |                |                |       |                     |
|---------------|----------------|----------------|-------|---------------------|
| $E_{av}$ [lx] | $E_{min}$ [lx] | $E_{max}$ [lx] | $u0$  | $E_{min} / E_{max}$ |
| 14            | 0.22           | 32             | 0.015 | 0.007               |

# Tree uplight light plot - Bishopstrow House Exterior

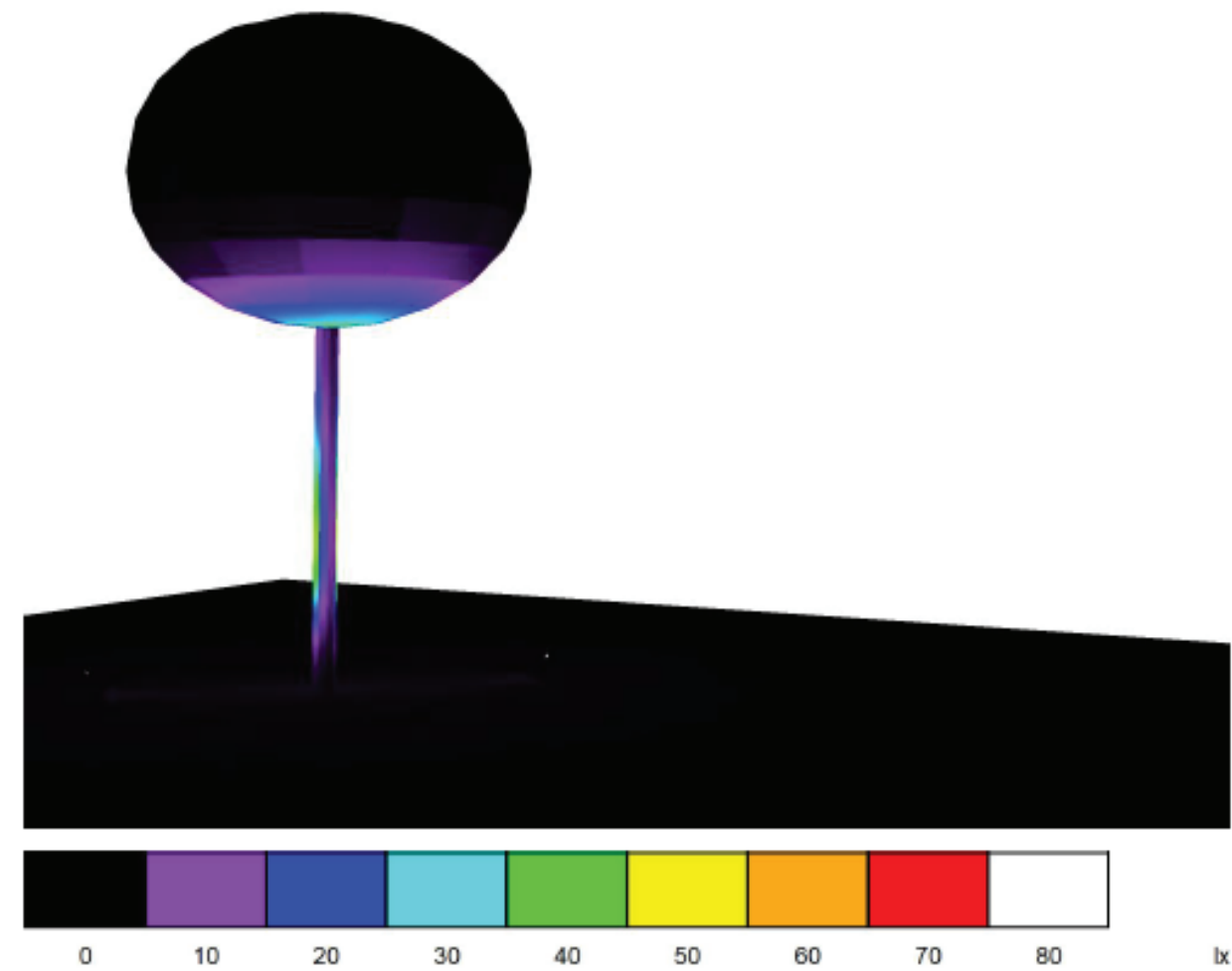
## Tree uplights existing

Uplights to trees / False Colour Rendering



## Tree uplights proposed

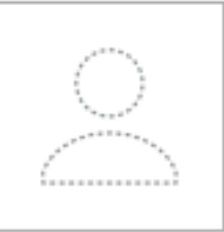
Uplights to trees / False Colour Rendering



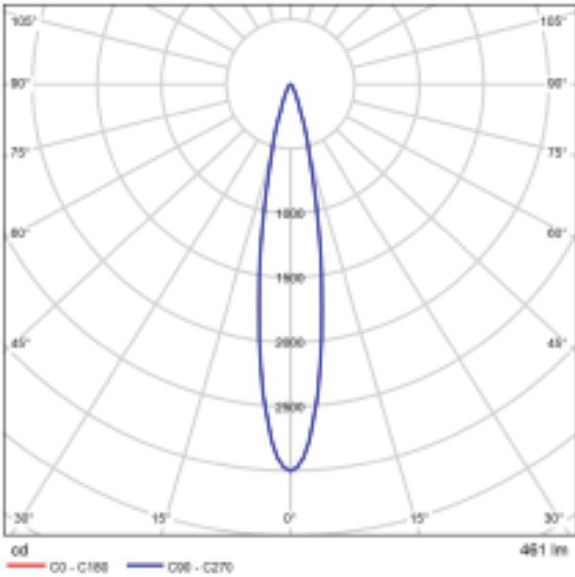
Proposed Swimming pool light plot - Bishopstrow House Exterior

Product data sheet

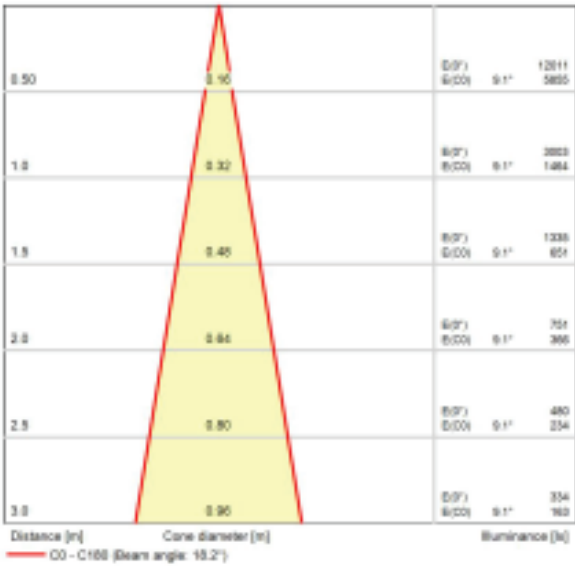
WIBRE Elektrogeräte Edmund Breuninger GmbH &Co. KG - Strahler 4.0052.20.12 3000K



|                    |           |
|--------------------|-----------|
| Article No.        | -         |
| P                  | 5.6 W     |
| $\Phi_{Lamp}$      | -         |
| $\Phi_{Luminaire}$ | 461 lm    |
| $\eta$             | -         |
| Luminous efficacy  | 81.8 lm/W |
| CCT                | 3000 K    |
| CRI                | 80        |
| Index              | EL11      |



Polar LDC



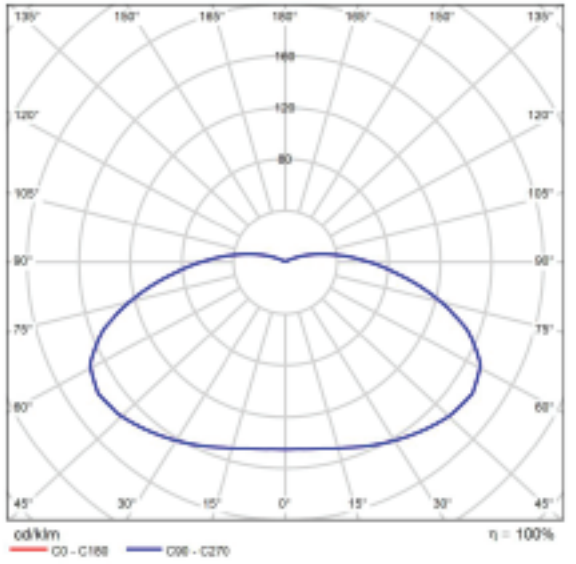
Cone diagram

Product data sheet

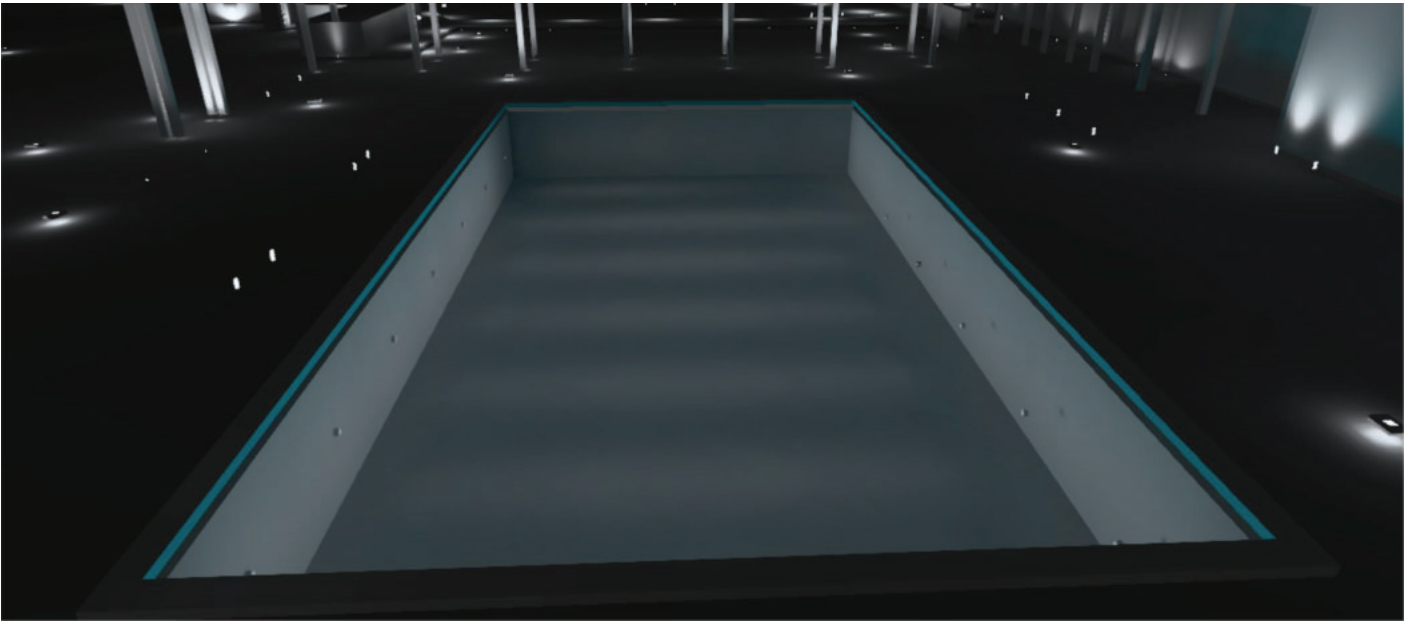
PHOS Ltd - Pano Midi Surface Washer 180° (14W 30K)



|                    |           |
|--------------------|-----------|
| Article No.        | N/A       |
| P                  | 15.6 W    |
| $\Phi_{Lamp}$      | 276 lm    |
| $\Phi_{Luminaire}$ | 276 lm    |
| $\eta$             | 100.12 %  |
| Luminous efficacy  | 17.7 lm/W |
| CCT                | 3000 K    |
| CRI                | 100       |
| Index              | EL19      |



Polar LDC



# Swimming pool light plot - Bishopstrow House Exterior

Building 1 · Storey 1 · Room 1 (Light scene 1)

## Summary

### Results

|                                  | Symbol                     | Calculated                    | Target          | Check | Index |
|----------------------------------|----------------------------|-------------------------------|-----------------|-------|-------|
| Working plane                    | $E_{\text{perpendicular}}$ | 30.1 lx                       | $\geq 500$ lx   | ✗     | WP1   |
|                                  | $U_0$ (g <sub>r</sub> )    | 0.40                          | $\geq 0.60$     | ✗     | WP1   |
|                                  | Lighting power density     | 0.73 W/m <sup>2</sup>         | -               |       |       |
|                                  |                            | 2.44 W/m <sup>2</sup> /100 lx | -               |       |       |
| Glare valuation <sup>(1)</sup>   | $R_{UG,max}$               | 15                            | $\leq 19$       | ✓     |       |
| Energy estimation <sup>(2)</sup> | Consumption                | 190 kWh/a                     | max. 4500 kWh/a | ✓     |       |
| Space                            | Lighting power density     | 0.60 W/m <sup>2</sup>         | -               |       |       |
|                                  |                            | 2.01 W/m <sup>2</sup> /100 lx | -               |       |       |

(1) Based on a rectangular space of 14.900 m x 8.550 m and SHR of 0.25.

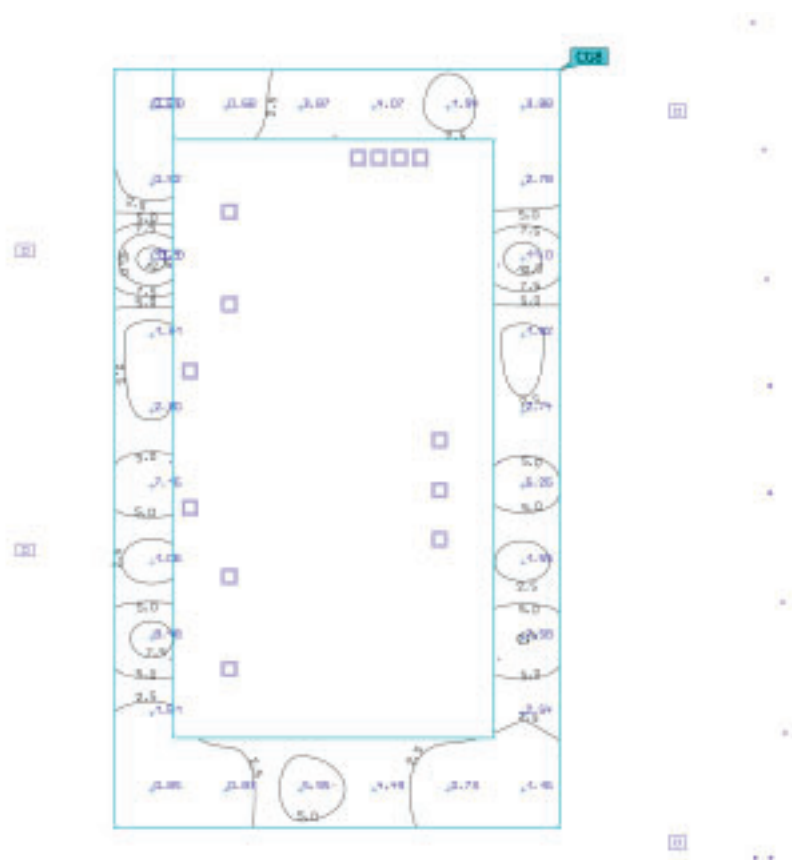
(2) Calculated using DIN:18599-4.

Utilisation profile: DIALux presetting (34.2 Standard (office))

### Luminaire list

| pcs. | Manufacturer                                                       | Article No. | Article name                | $R_{UG}$ | P     | $\Phi$ | Luminous efficacy |
|------|--------------------------------------------------------------------|-------------|-----------------------------|----------|-------|--------|-------------------|
| 14   | WIBRE<br>Elektrogeräte<br>Edmund<br>Breuninger<br>GmbH & Co.<br>KG | -           | Strahler 4.0052.20.13 4500K | 15       | 5.5 W | 494 lm | 90.0 lm/W         |

Swimming pool deck light plot - Bishopstrow House Exterior



| Properties                                               | E       | Emin    | Emax    | Uo (g1) | g2    | Index |
|----------------------------------------------------------|---------|---------|---------|---------|-------|-------|
| Small Pool<br>Horizontal illuminance<br>Height: -0.099 m | 3.64 lx | 0.64 lx | 13.4 lx | 0.18    | 0.048 | CG8   |

Utilisation profile: DIALux presetting (5.1.4 Standard (outdoor transportation area))



| Properties                                             | E       | Emin    | Emax    | Uo (g1) | g2    | Index |
|--------------------------------------------------------|---------|---------|---------|---------|-------|-------|
| Big Pool<br>Horizontal illuminance<br>Height: -0.099 m | 4.46 lx | 0.75 lx | 12.2 lx | 0.17    | 0.061 | CG7   |

Utilisation profile: DIALux presetting (5.1.4 Standard (outdoor transportation area))

Post mounted downlights highlight paths at low level

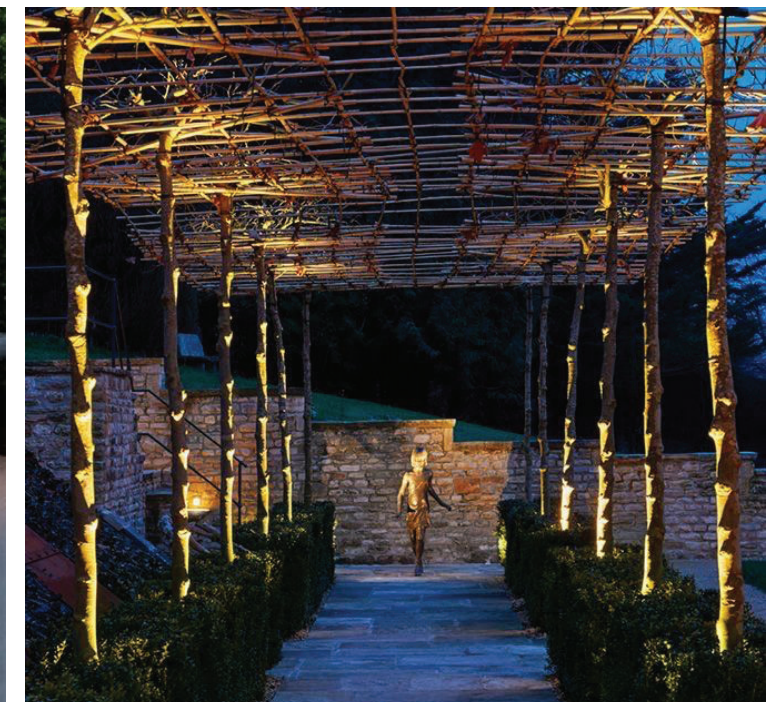
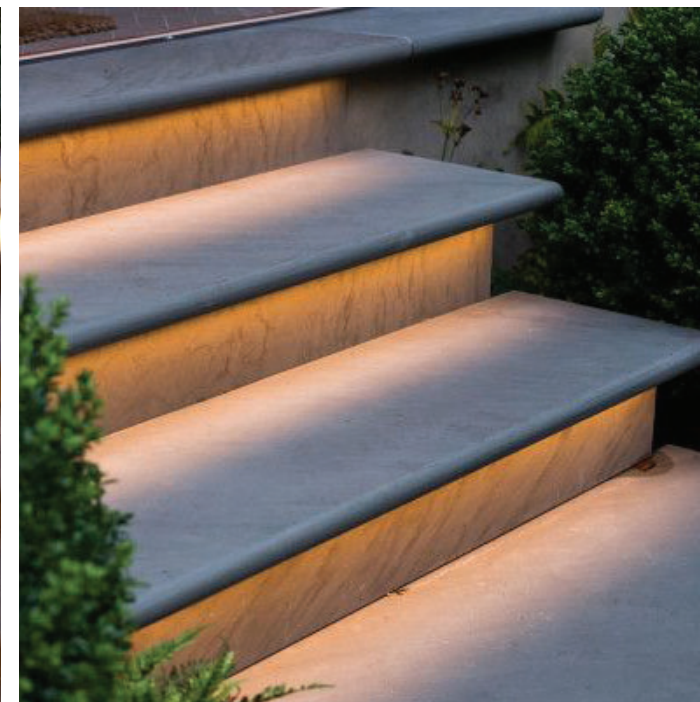
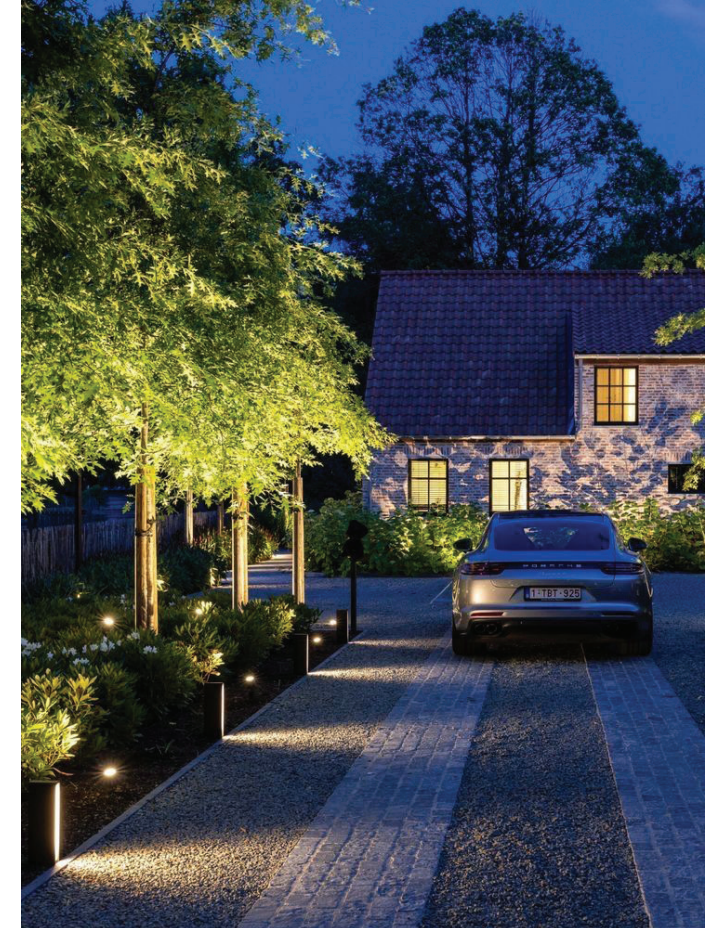
Linear LED highlights the steps or wall recessed floor washers to light across the steps

Floor recessed uplights to highlight the pergola structure

Spike mounted uplights highlight planting and trees



SUSAN LAKE  
LIGHTING DESIGN



## BISHOPSTROW HOUSE - PATHWAYS

Linear LED integrated to the underside of the banquette seating to create a soft low level glow

Decorative pendants suspended in the large trees

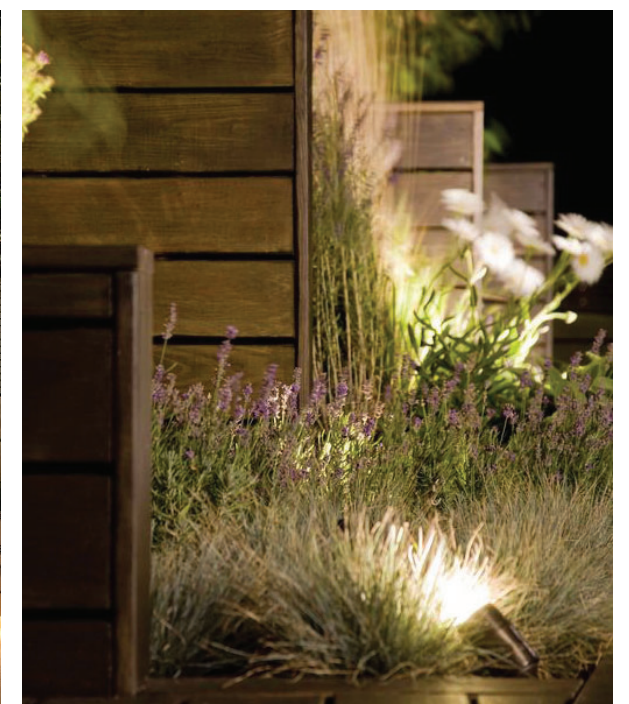
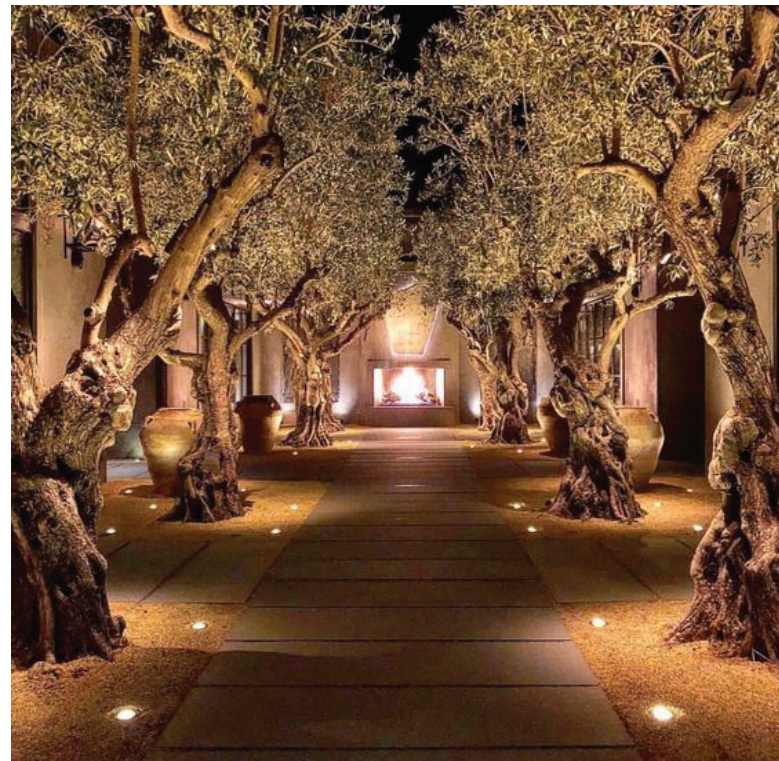
Decorative table top and floor mounted lights

Spike mounted uplights highlighting the planting

Floor recessed uplights to the columns at the restaurant



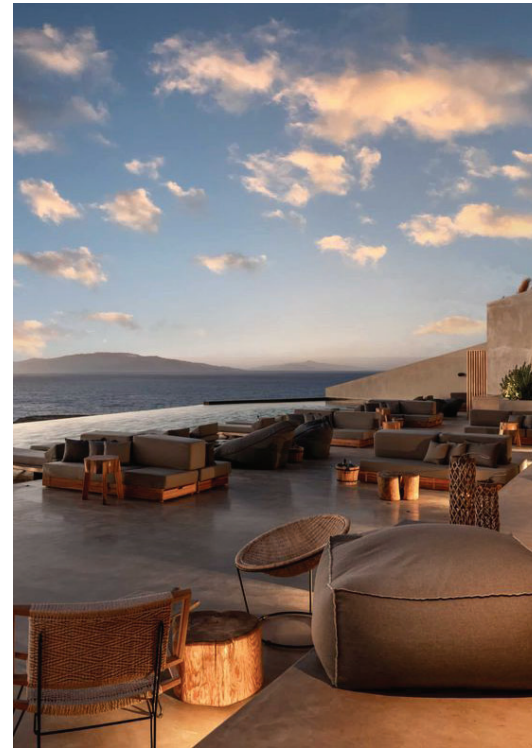
SUSAN LAKE  
LIGHTING DESIGN



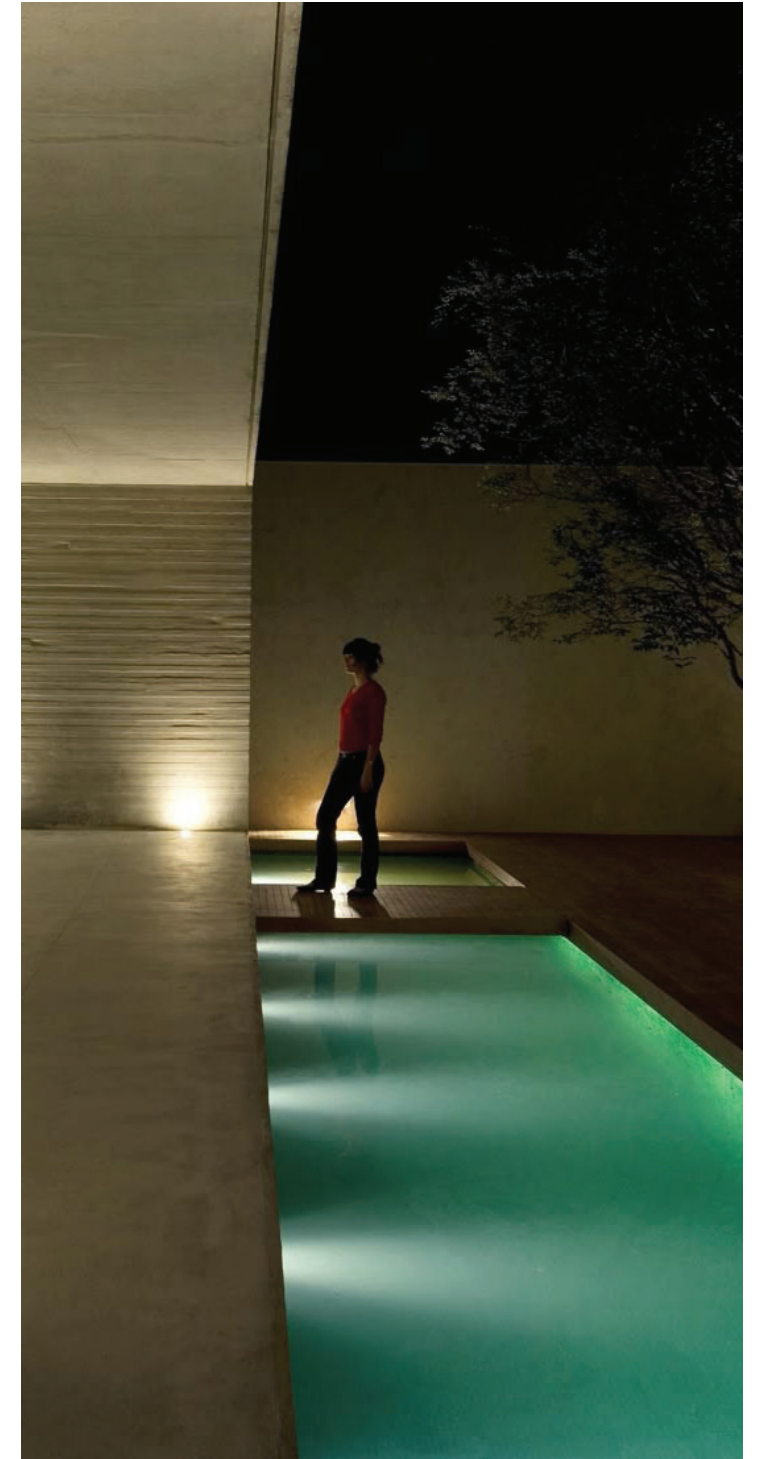
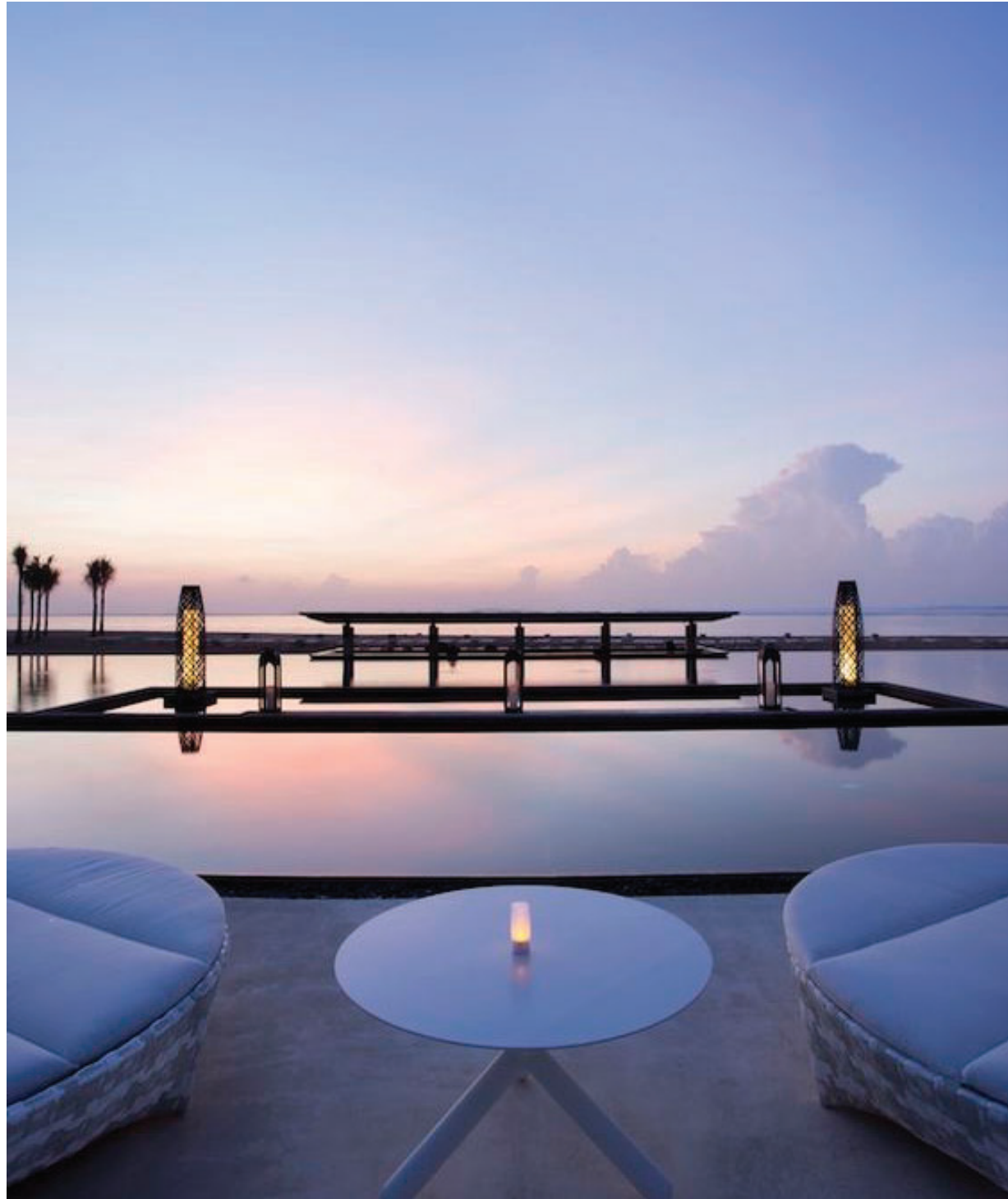
Linear LED integrated into the bar top to wash down the bar front  
 Decorative table top and floor mounted lights  
 Spike mounted uplights highlighting the planting  
 Floor recessed uplights to the perimeter columns



Decorative floor lights add warmth  
Spike mounted uplights highlight planting



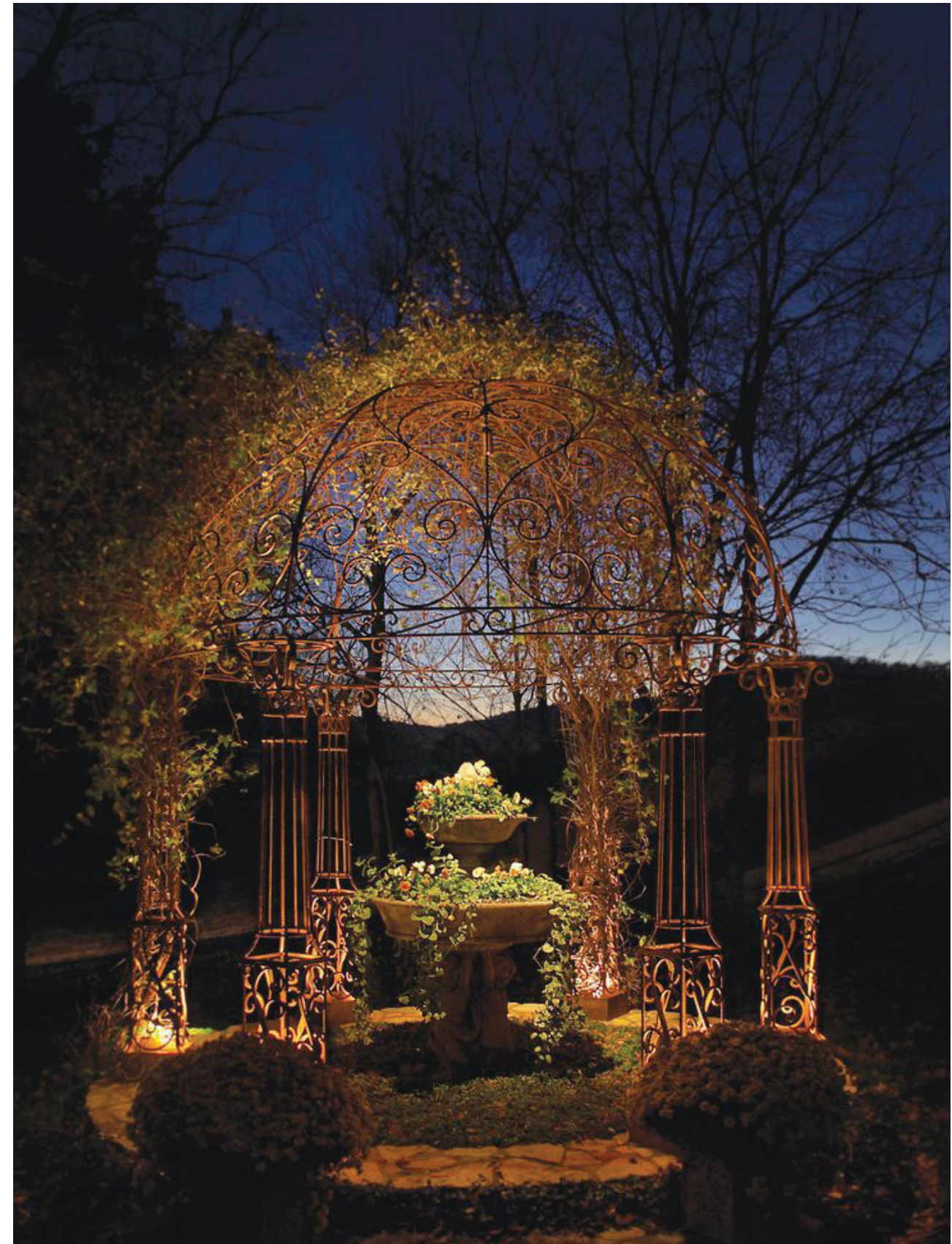
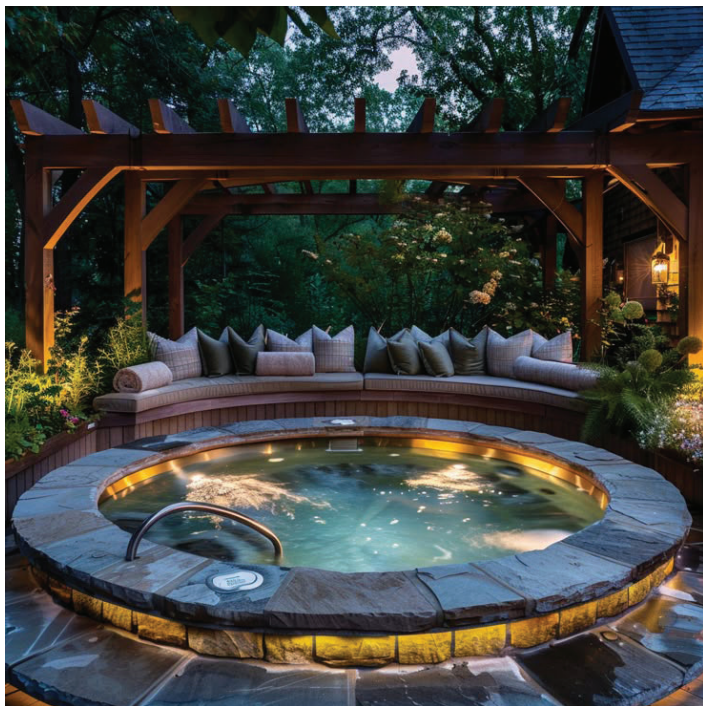
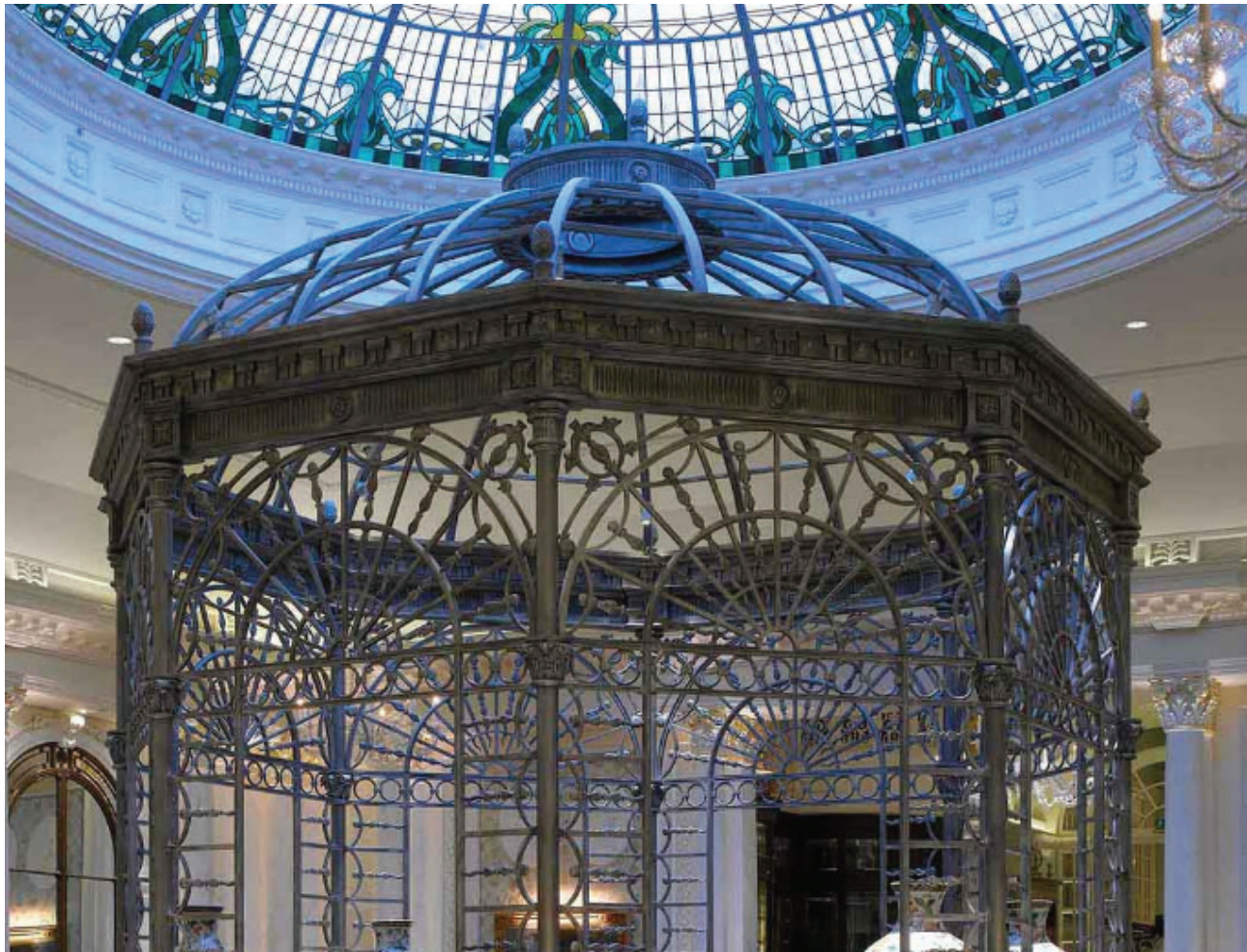
Mini pool lights highlight across the pool  
Decorative floor lights add warmth  
Spike mounted uplights highlight planting and trees



Linear LED around the perimeter of the dome to softly wash up  
Floor recessed uplights highlight the columns



SUSAN LAKE  
LIGHTING DESIGN



BISHOPSTROW HOUSE - FEATURE PRIVATE HOT TUB

# Light Fitting Control Schedule



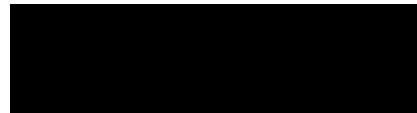
SUSAN LAKE  
LIGHTING DESIGN

| LANDSCAPED AND POOL AREAS |        |                                               |      |      |     |          |   |  |
|---------------------------|--------|-----------------------------------------------|------|------|-----|----------|---|--|
| EC1                       | EL7    | Exterior spike mounted uplight to small trees | 8.5  | 9.0  | 77  | LED      | P |  |
| EC2                       | EL18   | Decorative floor mounted hard wired lantern   | 4    | 4.0  | 16  | LED      | P |  |
| EC3                       | EL9    | Wall recessed step light                      | 2.6  | 4.0  | 10  | LED      | P |  |
| EC4                       | EL12   | Path lights                                   | 4.6  | 4.0  | 18  | LED      | P |  |
| EC5                       | SUPPLY | Power provision points                        | 150  | 3.0  | 450 | 240V/LED | P |  |
| EC6                       | EL8    | Exterior spike mounted uplight to large trees | 16.2 | 2.0  | 32  | LED      | P |  |
| EC7                       | SUPPLY | Power provision points                        | 150  | 1.0  | 150 | LED      | P |  |
| EC8                       | EL18   | Decorative floor mounted hard wired lantern   | 4    | 5.0  | 20  | LED      | P |  |
| EC9                       | EL4    | Floor Recessed small uplight                  | 2.4  | 26.0 | 62  | LED      | P |  |
| EC10                      | EL20   | Swimming pool mini spot light                 | 2    | 13.0 | 26  | LED      | P |  |
| EC11                      | EL6    | Exterior spike mounted uplight to planter     | 1.5  | 23.0 | 35  | LED      | P |  |
| EC12                      | EL14   | Underwater fibre optic lights                 | 60   | 1.0  | 60  | LED      | P |  |
| EC13                      | EL11   | Swimming pool spotlights                      | 18   | 13.0 | 234 | LED      | P |  |
| "                         | EL20   | Swimming pool mini spot light                 | 2    | 3.0  | 6   | LED      | P |  |
| EC14                      | EL9    | Wall recessed step light                      | 2.6  | 9.0  | 23  | LED      | P |  |
| EC15                      | EL7    | Exterior spike mounted uplight to small trees | 8.5  | 16.0 | 136 | LED      | P |  |
| EC16                      | EL12   | Path lights                                   | 4.6  | 9.0  | 41  | LED      | P |  |
| EC17                      | EL4A   | Floor Recessed small uplight with half moon   | 2.4  | 8.0  | 19  | LED      | P |  |
| EC18                      | SUPPLY | Power provision points                        | 150  | 1.0  | 150 | LED      | P |  |
| EC19                      | EL4    | Floor Recessed small uplight                  | 2.4  | 4.0  | 10  | LED      | P |  |

DOCUMENT REF: 141-S01-Rev H  
LIGHTING SPECIFICATION DOCUMENT  
BISHOPSTROW HOTEL



SUSAN LAKE  
LIGHTING DESIGN



Revision -- : 04.03.2025  
Revision A: 29.04.2025  
Revision B: 30.05.2025  
Revision C: 23.06.2025  
Revision D: 18.07.2025  
Revision E: 10.10.2025  
Revision F: 22.10.2025  
Revision G: 06.05.2026  
Revision H: 11.05.2026

## CONTENTS

- Luminaire Key
- Luminaire specification sheets
- General notes
- LED specification notes

## 141 BISHOPSTROW HOTEL

### LUMINAIRE KEY

|                                                              |
|--------------------------------------------------------------|
| L1 – Ceiling recessed directional downlight                  |
| EL1 - Low output linear LED IP rated to Sauna and Steam room |
| EL2 - High output linear LED IP rated in the ceiling         |
| EL3 – Wall recessed floor washer                             |
| EL4 - Floor Recessed small uplight                           |
| EL4A - Floor Recessed small uplight with half moon           |
| EL5 - Floor Recessed large uplight                           |
| EL6 – Exterior spike mounted uplight to planter              |
| EL7 - Exterior spike mounted uplight to small trees          |
| EL8 - Exterior spike mounted uplight to large trees          |
| EL9 – Deleted                                                |
| EL10 - Deleted                                               |
| EL11 - Swimming pool spotlights                              |
| EL12 – Path lights                                           |
| EL13 – Exterior surface mounted spotlights                   |
| EL14 - Underwater fibre optic lights                         |
| EL15 - Window reveal light                                   |
| EL16 – Wall mounted downlight                                |
| EL17 - Decorative pendants in trees                          |
| EL18 - Decorative floor mounted hard wired lantern           |
| EL19 - Semi recessed floor washer                            |
| EL20 - Swimming pool mini spotlights                         |

Project: BISHOPSTROW HOTEL

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11.05.26

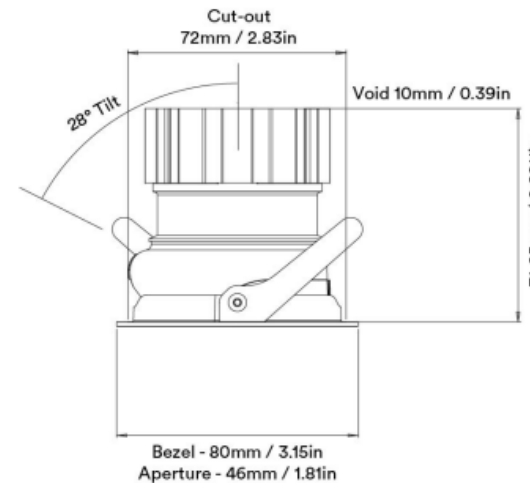
Reference: L1

Luminaire description/purpose: Ceiling recessed LED downlight

Order code: OR-ONE-27-D-M-W-BB-F-54 Orluna One adjustable (finish White TBC with the client)

Illustration:

Dimensions:



Supplier: Orluna LED Technologies Ltd Unit C Holly Industrial Park, Ryan Way, Watford WD24 4YP

Contact: Samantha Harris

Watts: 11.4W Beam: 26 degree Lamp type: 2700k Warm White LED

CRI: 98 Mounting: Ceiling recessed Driver: Phase dimmable Dimensions: 72mm diameter cut out, 80mm bezel, 90mm recess depth Lumen output: 975lm

#### Notes:

- These lights are to be fed by individual Phase dimmable drivers. These are to be located in the ceiling void, through the downlighter cutout. Access and ventilation required.
- These lights require a Phase control cable to run between the driver and the rotary dimmer switches.
- Refer to LED notes towards the back of this document and to manufacturer's wiring instructions. These are for the attention of the contractor and manufacturer.
- Double thickness plaster board will need to be chamfered back around fitting to allow full tilt.
- Circular product - fully repairable and reusable >95% recycled, >95% recyclable.
- 60 min fire rated plate available if required
- IP54 rated

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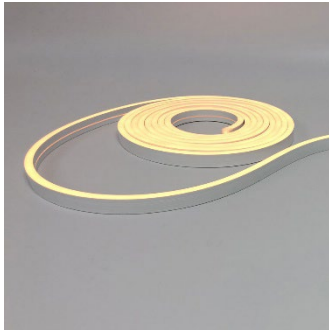
Reference: EL1

Luminaire description/purpose: Low output linear LED IP rated to Sauna and Steam room

Order code: Top View 1020 LumiFlex (Linear Neon) 2700K 12W

Illustration:

Dimensions:



10mm x 20mm x length

Supplier: Atmospheric Zone Limited, Unit 24 Martlets Trading Estate, Woods Way, Goring By Sea, Worthing, West Sussex BN12 4QY

Contact: Steve Mallory

Email: [REDACTED]

Watts: 12W per m Volts: 12V DC Power supply Lamp type: 2700k Warm White LED Mounting: In joinery CRI: Ra >92, LED Lumen per meter: 220lm/m

Driver: Phase dimmable + power supply Dimensions: 10mm x 20mm IP rated: IP67

#### Notes:

- These fittings are to be fed by remote, Phase dimmable drivers. Driver order codes and quantities to be confirmed with the manufacturer prior to order being placed.
- The driver can typically be located up to 30m away from the light – exact distance depending on the cables diameter and length of lighting TBC with manufacturer. Exact driver location to be determined with the project services engineer. Access & ventilation required.
- These lights require Phase control cabling to run between the driver and the rotary dimmer switches.
- Contractor to liaise with luminaire manufacturer regarding all aspects of the installation process including wiring between drivers' and control prior to ordering.
- Refer to LED notes towards the back of this document and to manufacturer's wiring instructions. These are for the attention of the contractor and manufacturer.

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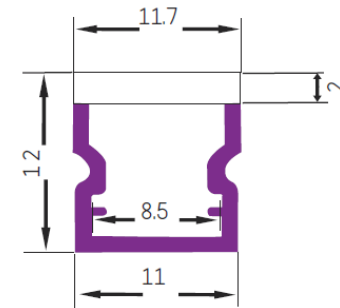
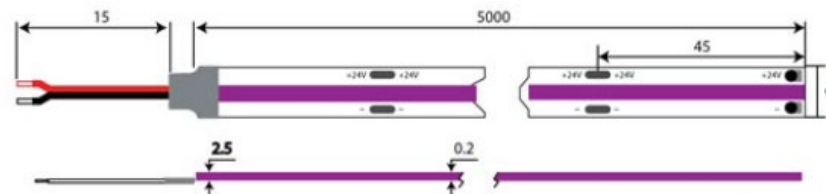
Reference: EL2

Luminaire description/purpose: High output linear LED IP rated in the ceiling

Order code: ATMOS-COB-24-10-27 2700K 10W Pro Strip w/ profile

Illustration:

Dimensions:



Supplier: Atmospheric Zone Limited, Unit 24 Martlets Trading Estate, Woods Way, Goring By Sea, Worthing, West Sussex BN12 4QY

Contact: Steve Mallory

Email: [REDACTED]

Watts: 10W per m Volts: 12V DC Power supply Lamp type: 2700k Warm White LED Mounting: In joinery CRI: >92, LED Lumen per meter: 1100lm/m

Driver: Phase dimmable + power supply

#### Notes:

- These fittings are to be fed by remote, Phase dimmable drivers. Driver order codes and quantities to be confirmed with the manufacturer prior to order being placed.
- The driver can typically be located up to 30m away from the light – exact distance depending on the cables diameter and length of lighting TBC with manufacturer. Exact driver location to be determined with the project services engineer. Access & ventilation required. Potential locations within joinery. The drivers and their wiring must be concealed from view.
- These lights require Phase control cabling to run between the driver and the rotary dimmer switches.
- Contractor to liaise with luminaire manufacturer regarding all aspects of the installation process including wiring between drivers' and control system prior to ordering.
- Refer to LED notes towards the back of this document and to manufacturer's wiring instructions. These are for the attention of the contractor and manufacturer.

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Reference: EL3

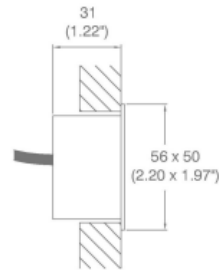
Luminaire description/purpose: Wall recessed Floor Washer

Order code: IW5056 In WALL square 50 LED 2700K anodised white Finish (finish TBC with client)

Illustration:



Dimensions:



Manufacturer: Lucent Lighting Lucent Lighting Limited 1345 High Road London, N20 9HR

Contact: Alex Hay

Watts: 1.4W Lamp type: 2700k Warm White LED Mounting: Wall or skirting recessed exact mounting height TBC approx. 130mm AFFL

Driver: 350mA phase dimmable Cut out: Springs:46(H) x 45(W)mm CRI: 90

#### Notes:

- These fittings are to be fed by remote, phase dimmable drivers. Driver order codes and quantities to be confirmed with the manufacturer prior to order being placed, 1no. driver can run several light fittings.
- The driver can typically be located approx. 20m away from the light – exact distance depending on the cables diameter TBC with manufacturer. Exact driver location to be determined with the project services engineer. Access & ventilation required. The drivers and their wiring must be concealed from view.
- These lights require phase dimmable control cabling to run between the driver and the rotary dimmer switches.
- Contractor to liaise with luminaire manufacturer regarding all aspects of the installation process including wiring between drivers' and control system prior to ordering.
- Refer to mounting details.
- Refer to LED notes towards the back of this document and to manufacturer's wiring instructions. These are for the attention of the contractor and manufacturer.
- Refer to manufacturer's wiring instructions.
- IP 65 rated
- Circular economy fitting, included in the sustainability ProCycle scheme, 20-year duty of care following supply of the complete luminaire. (This offers customers the ability to send back products to us for repair or refurbishment to extend their life without having to buy new fittings.)

Project: BISHOPSTROW HOTEL

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Reference: EL4

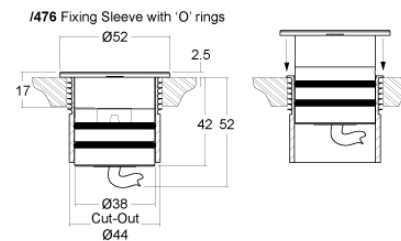
Luminaire description/purpose: Floor recessed small uplight

Order code: LD56-C1-700/LW27/NB/ Black

Illustration:



Dimensions:



Manufacturer: Light Graphix

Contact: Jason Goldsmid

Watts: 2.4W Lamp type: 2700k LED Beam angle: 12° Lumen output: 177lm CRI:93

Mounting: Floor recessed Dimensions cut out size: 44mm diameter x 52mm height Driver: 700mA phase dimmable

**Notes:**

- These fittings are to be fed by remote, 700mA PHASE dimmable drivers. Several fittings can be fed from 1no. driver, exact quantity TBC with Light Graphix
- These lights require phase control cabling to run between the driver and the control system
- The driver can typically be located up to approx. 10m away from the light, TBC with manufacturer – exact distance depending on the cable diameter, distances can be increased with thicker diameter cables. Exact driver location to be determined with the contractor. Access & ventilation required.
- The drivers and their wiring must be concealed from view.  
IP68 rated
- Refer to LED notes towards the back of this document and to manufacturer's wiring instructions. These are for the attention of the contractor and manufacturer.
- Circular economy fitting, included in the Repair and Refurbish scheme (This offers customers the ability to send back products to us for repair or refurbishment to extend their life without having to buy new fittings.)

Project: BISHOPSTROW HOTEL

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Reference: EL4A

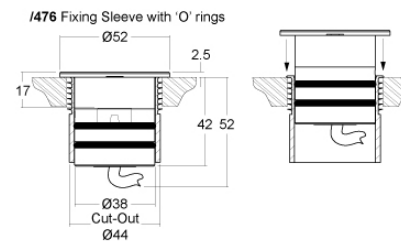
Luminaire description/purpose: Floor recessed small uplight with half moon

Order code: LD56-C1-700/LW27/NB/ White / GS56

Illustration:



Dimensions:



Manufacturer: Light Graphix

Contact: Jason Goldsmid

Watts: 2.4W Lamp type: 2700k LED Beam angle: 12° Lumen output: 177lm CRI:93

Mounting: Floor recessed Dimensions cut out size: 44mm diameter x 52mm height Driver: 700mA phase dimmable

**Notes:**

- These fittings are to be fed by remote, 700mA PHASE dimmable drivers. Several fittings can be fed from 1no. driver, exact quantity TBC with Light Graphix
- These lights require phase control cabling to run between the driver and the control system
- The driver can typically be located up to approx. 10m away from the light, TBC with manufacturer – exact distance depending on the cable diameter, distances can be increased with thicker diameter cables. Exact driver location to be determined with the contractor. Access & ventilation required.
- The drivers and their wiring must be concealed from view.  
IP68 rated
- Refer to LED notes towards the back of this document and to manufacturer's wiring instructions. These are for the attention of the contractor and manufacturer.
- Circular economy fitting, included in the Repair and Refurbish scheme (This offers customers the ability to send back products to us for repair or refurbishment to extend their life without having to buy new fittings.)

Project: BISHOPSTROW HOTEL

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Reference: EL5

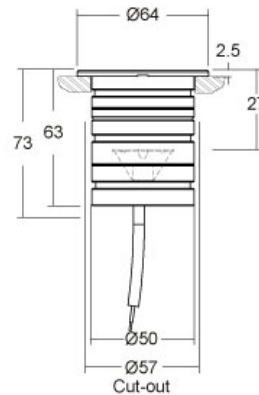
Luminaire description/purpose: Floor recessed large uplight

Order code: LD141X-E3-500/LW27/NB/ black (finish TBC with client) Half moon glare shield

Illustration:



Dimensions:



Manufacturer: Light Graphix

Contact: Jason Goldsmid

Watts: 6.4W Lamp type: 2700k LED Beam angle: 12° Lumen output: 462lm CRI:93

Mounting: Floor recessed Dimensions cut out size: 57mm diameter x 73mm height Driver: 700mA phase dimmable

**Notes:**

- These fittings are to be fed by remote, 700mA phase dimmable drivers. Several fittings can be fed from 1no. driver, exact quantity TBC with Light Graphix
- These lights require PHASE control cabling to run between the driver and the control system
- The driver can typically be located up to approx. 10m away from the light, TBC with manufacturer – exact distance depending on the cable diameter, distances can be increased with thicker diameter cables. Exact driver location to be determined with the contractor. Access & ventilation required.
- The drivers and their wiring must be concealed from view.  
IP67 rated
- Refer to LED notes towards the back of this document and to manufacturer's wiring instructions. These are for the attention of the contractor and manufacturer.
- Circular economy fitting, included in the Repair and Refurbish scheme, (This offers customers the ability to send back products to us for repair or refurbishment to extend their life without having to buy new fittings.)

Project: BISHOPSTROW HOTEL

Document: 141-S01-Rev H

11.05.26

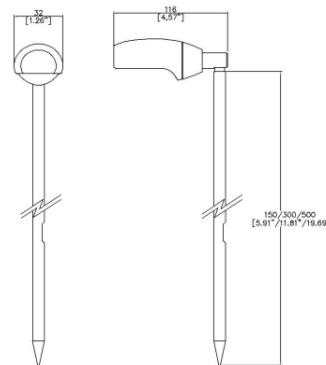
Reference: EL6

Luminaire description/purpose: Spike mounted light to planting

Order code: VS002-27-BK-K-P-500T Vista Mini Flood Black finish w/ spike to planter mounting 500mm stem

Illustration:

Dimensions:



Manufacturer: Lucent Lighting Unit 7, Great Cambridge Industrial Estate. Lincoln Road. Enfield. EN1 1SH

Contact: Alex Hay

Watts: 1.5W Lamp type: 2700k LED Beam angle: 120 degrees Light output: 119 lm

Mounting: Spike mounted in planter Dimensions: 32mm diameter x 116mm x 500mm Driver: 24v constant voltage remote phase dimmable

**Notes:**

- These fittings are to be fed by remote, constant current phase drivers. 1no. driver can run 1-10 light fittings.
- The driver can typically be located up to 20m away from the light – exact distance depending on the cables diameter, contractor to confirm with manufacturer. Exact driver location to be determined with the project services engineer. Access & ventilation required.
- The drivers and their wiring must be concealed from view.
- Contractor to liaise with luminaire manufacturer regarding all aspects of the installation process including wiring between drivers and control system.
- This product is rated IP65.
- Refer to LED notes towards the back of this document and to manufacturer's wiring instructions. These are for the attention of the contractor and manufacturer.
- Junction boxes to be kept to a minimum & mounted out of sight.
- Cabling is to be neatly fixed down out of sight wherever possible (All details to be confirmed with the contractor).
- Circular economy fitting, included in the sustainability ProCycle scheme, 20-year duty of care following supply of the complete luminaire. (This offers customers the ability to send back products to us for repair or refurbishment to extend their life without having to buy new fittings.)

Project: BISHOPSTROW HOTEL

Document: 141-S01-Rev H

11.05.26

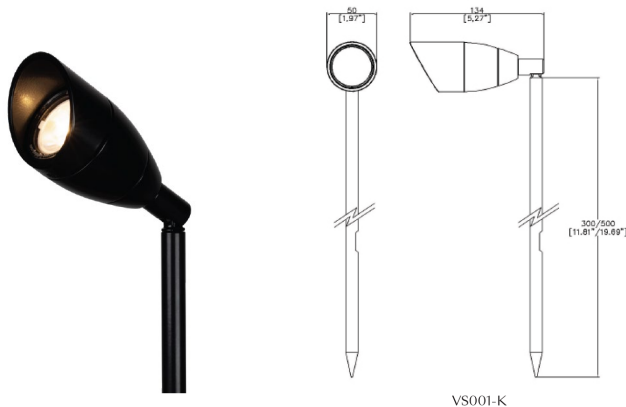
Reference: EL7

Luminaire description/purpose: Spike mounted uplight to small trees

Order code: VS001-27-44-BK-K Vista Spotlight. 2700K, 44°. Black finish w/ spike to ground mounting 300mm stem

Illustration:

Dimensions:



Manufacturer: Lucent Lighting Unit 7, Great Cambridge Industrial Estate. Lincoln Road. Enfield. EN1 1SH

Contact: Alex Hay

Lamp type: 2700k LED Beam angle: 44° Lumen output: 358lm Mounting: Spike mounted in ground Dimensions: 134mm length x 50mm diameter Spike: Height 300mm Watts: 8.5W

Driver: ELED-100-24T Slimline constant voltage phase dimmable (leading and trailing edge) max 24V max 30W 200-240V AC LED driver. IP66 rated.

**Notes:**

- The driver can typically be located up to 20m away from the light. Exact driver location to be determined with the project services engineer. Access & ventilation required.
- Contractor to liaise with luminaire manufacturer regarding all aspects of the installation process including wiring between drivers and control system.
- This product is rated IP65.
- Refer to LED notes towards the back of this document and to manufacturer's wiring instructions. These are for the attention of the contractor and manufacturer.
- Junction boxes to be kept to a minimum & mounted out of sight.
- The drivers and their wiring must be concealed from view. Cabling is to be neatly fixed down out of sight wherever possible (All details to be confirmed with the contractor). These fittings are to be fed by remote, constant current phase drivers. 1no. driver can run 1-10 light fittings **wired in series**.
- Circular economy fitting, included in the sustainability ProCycle scheme, 20-year duty of care following supply of the complete luminaire. (This offers customers the ability to send back products to us for repair or refurbishment to extend their life without having to buy new fittings.)

Project: BISHOPSTROW HOTEL

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11.05.26

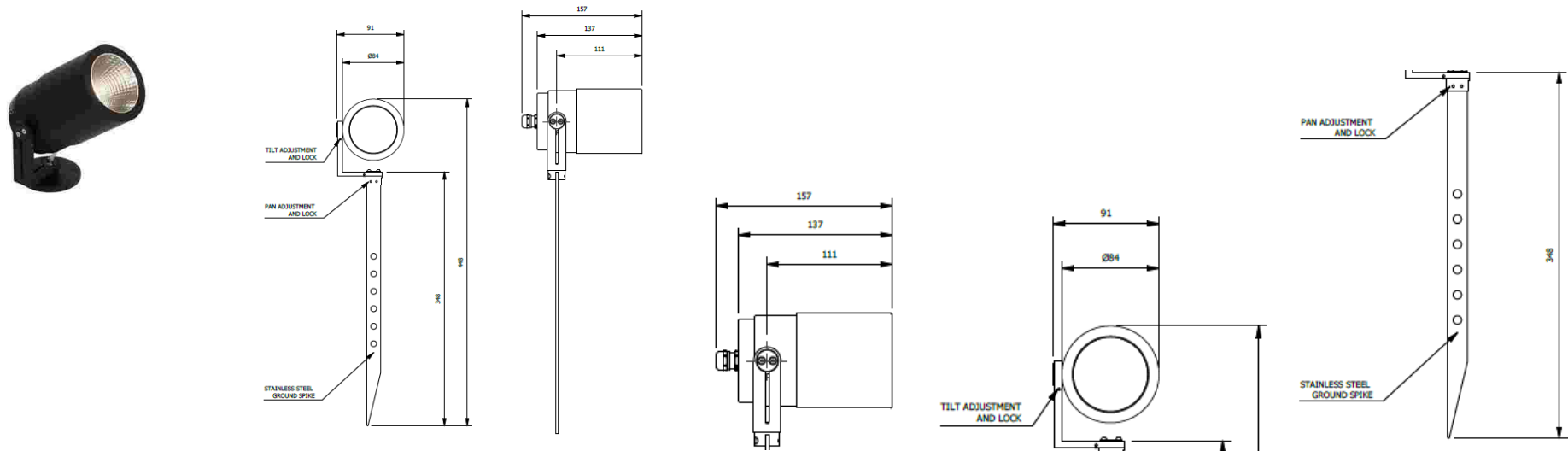
Reference: EL8

Luminaire description/purpose: Spike mounted uplight to large trees

Order code: Croc-Type- X.2700K, 2160lm.XOB.flood.black.spike.snoot Anodised Black finish w/ spike to ground mounting, snoot for glare control, mains dimmable

Illustration:

Dimensions:



Manufacturer: Stoane Lighting Ltd.

Contact: Ruairidh McGlynn

Watts: 16.2W Lamp type: 2700k LED Beam angle: flood

Mounting: Spike mounted in ground Dimensions: 157mm length x 91mm diameter Spike: Height 348mm Driver: 700mA Mains dimmable

#### Notes:

- The driver can typically be located up to 30m away from the light – exact distance depending on the cables diameter. Exact driver location to be determined with the project services engineer. Access & ventilation required.
- Contractor to liaise with luminaire manufacturer regarding all aspects of the installation process including wiring between drivers and control system.
- This product is rated IP66.
- Refer to LED notes towards the back of this document and to manufacturer's wiring instructions. These are for the attention of the contractor and manufacturer.
- Junction boxes to be kept to a minimum & mounted out of sight.
- The drivers and their wiring must be concealed from view. Cabling is to be neatly fixed down out of sight wherever possible (All details to be confirmed with the contractor).
- Circular economy fitting, Repair fitting guarantee. (This offers customers the ability to send back products to us for repair or refurbishment to extend their life without having to buy new fittings.)

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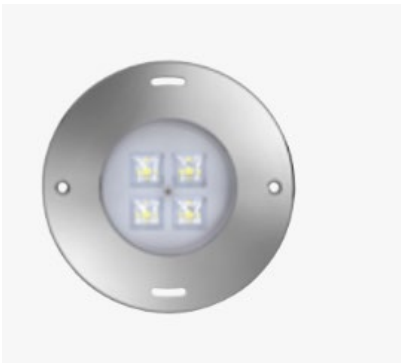
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Reference: EL11

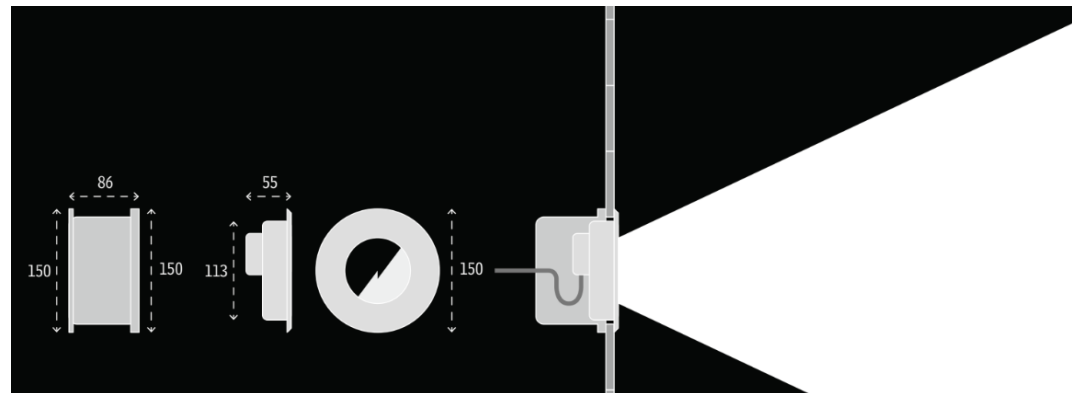
Luminaire description/purpose: Swimming pool spot light

Order code: W.4.0102.20.12 Wibre Centum Recessed IP68 Underwater Spotlight 150mm dia with 4 POW-LED 3000K Warm White 30° medium Optic. 18W CC 1400mA (12 Vdc)

Illustration:



Dimensions:



Manufacturer: Wibre Elektrogerate Edmund Breuninger GmbH & Co. Liebigstraße 9, 74211 Leingarten/Germany

Contact: Light Projects Address: 23 Jacob Street, London SE1 2BG

Watts: 18W Output: 2150 lm Mounting: Wall recessed with installation housing TBC with pool construction

Driver: Non dimming CCT: 3000K CRI:85 CABLE UW, 2x1,5 qmm

**Notes:**

- IK09 and IP68 up to water depth 5m IP69 protection against high pressure and high jet water temperatures
- Stainless steel 316Ti
- Round Cover
- 316Ti Stainless Steel 1.4571
- + 3m Underwater Cable 2x1.5 mm<sup>2</sup>
- These fittings are to be fed by remote, Non-dimmable drivers. Driver order codes and quantities to be confirmed with the manufacturer prior to order being placed.
- The driver can typically be located up to 30m away from the light – exact distance depending on the cable's diameter and length of lighting TBC with manufacturer. Exact driver location to be determined with the project services engineer. Access & ventilation required. If drivers are to be located externally IP rated drivers or IP rated enclosures are required. The drivers and their wiring must be concealed from view.
- Contractor to liaise with luminaire manufacturer regarding all aspects of the installation process, including wiring between drivers and control system prior to ordering.
- Refer to the mounting detail and the relevant architect's details.
- Refer to LED notes towards the back of this document and to the manufacturer's wiring instructions. These are for the attention of the contractor and manufacturer.
- Refer to the manufacturer's wiring instructions.

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Reference: EL12

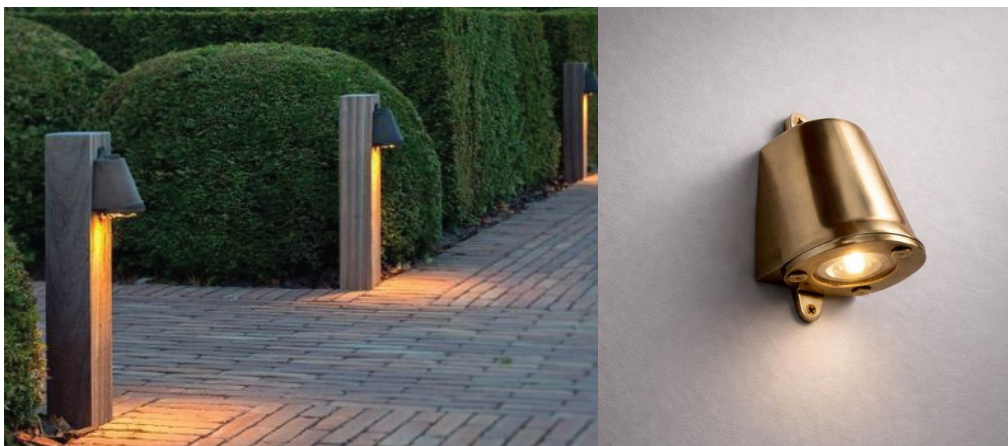
Luminaire description/purpose: Path light

Order code: Holt Outdoor & Bathroom Mast Down Wall Light LED Solid Raw Brass

LED 2700K Finish: solid raw brass, developing a beautiful natural patina over time

Illustration:

Dimensions:



Height 13.5cm  
Width 7.5cm  
Depth 9cm

Lights to be mounted onto timber posts not supplied by the lighting manufacturer. Timber supplied by local sawmill.

Manufacturer: Vintage Electrical

Contact: Website: [www.vintage-electrical.com](http://www.vintage-electrical.com) Email: [info@vintage-electrical.co.uk](mailto:info@vintage-electrical.co.uk) Address: 394 Wootton Road, King's Lynn, Norfolk, PE303EA

Watts: 4.6W Lamp type: LED GU10 240V 2700k Warm White LED Mounting: Mounted on post Dimming: Phase dimmable CRI: 90

Dimensions: Height 135mm x Width 75mm x depth 90mm

#### Notes:

- Refer to LED notes towards the back of this document and to manufacturer's wiring instructions. These are for the attention of the contractor and manufacturer.
- Refer to manufacturer's wiring instructions.
- IP54 rated

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Reference: EL13

Luminaire description/purpose: Exterior surface mounted spotlights (WHITE)

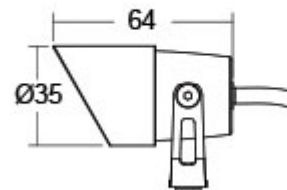
Order code: LD51-C1-700/LW27/MB/powder coat white/SAM anti- glare half cowl

Illustration:



Dimensions:

/HC51 Anti-glare half cowl



Manufacturer: Light Graphix

Contact: Jason Goldsmid

Watts: 2.3W Lamp type: 2700k LED Beam angle: 31° Lumen output: 188lm CRI:93

Mounting: Surface mounted Dimensions: 35mm diameter x 64mm height Driver: 700mA phase dimmable

**Notes:**

- These fittings are to be fed by remote, 700mA phase dimmable drivers. Several fittings can be fed from 1no. driver, exact quantity TBC with Light Graphix
- In-series constant current wiring (pre-wired with 2 core cable at a length of 1000mm)
- These lights require PHASE control cabling to run between the driver and the control system
- The driver can typically be located up to approx. 10m away from the light, TBC with manufacturer – exact distance depending on the cable diameter, distances can be increased with thicker diameter cables. Exact driver location to be determined with the contractor. Access & ventilation required.
- The drivers and their wiring must be concealed from view.  
IP67 rated
- Refer to LED notes towards the back of this document and to manufacturer's wiring instructions. These are for the attention of the contractor and manufacturer.
- Circular economy fitting, included in the Repair and Refurbish scheme, (This offers customers the ability to send back products to us for repair or refurbishment to extend their life without having to buy new fittings.)

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Reference: EL14

Luminaire description/purpose: Underwater fibre optic lights

Order code: RobLight Aquarius Range Finish: Fibre Optic System Comprising, 2 x fibre harnesses each consisting of 90 tails of 1mm PMMA @15m in length. 2 x LED Light Source 2700k with Twinkle Effect.

Illustration:



Manufacturer: RobLight

Contact: Light Projects Address: 23 Jacob Street, London SE1 2BG

Watts: 30W Mounting: Swimming pool base recessed with installation housing TBC with pool construction

CCT: 2700K CRI:80 Light Source: Remote LED Fibre Optic Generator 30W twinkle wheel warm white 2700K

#### Notes:

- IP68 up to water depth 10m
- Stainless steel 316L
- Contractor to liaise with luminaire manufacturer regarding all aspects of the installation process, including wiring between drivers and control system prior to ordering.
- Refer to LED notes towards the back of this document and to the manufacturer's wiring instructions. These are for the attention of the contractor and manufacturer.
- Refer to the manufacturer's wiring instructions.

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Reference: EL15

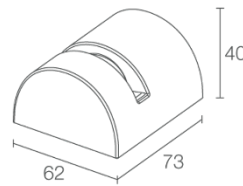
Luminaire description/purpose: Window reveal uplight

Order code: LM10000FYE Lyss Mini 1.0 2700K RAL finish + power supply

Illustration:



Dimensions:



Manufacturer: Luce and Light

Contact: Ellen Ponting

Watts: 3W Lamp type: 2700k LED Beam angle: 9°X160° Lumen output: 67lm CRI: 80

Mounting: Window sill mounted Dimensions: 73mm width x 40mm height x 62mm length Driver: 350mA Phase dimmable

**Notes:**

- Wiring must be concealed from view.
- Power supply: 24Vdc
- 1 power LED, 1/4 ANSI BIN (white LED colour), 50 000h L95 B10 (Ta 25°C)
- Body material: body made of heat-dissipating technopolymer with a thermal conductivity equal to that of stainless steel and high resistance to impact and sub-zero temperatures, and to corrosion even in harsh environments (saline). Protective cover in ABS
- Finishes: white cover finish obtained using high-resistance paint to provide corrosion resistance equal to more than 2000 hours of salt spray testing (RAL 9003), RAL finish on request
- includes 1,5 m neoprene cable, 05RN-F 2x0,35 Ø4,6 mm
- Ingress protection: IP65 and Impact resistance: IK07
- Protection systems: IPS (Intelligent Protection System) protects lighting fixtures from water infiltrations, which can occur if there are faulty junctions between the cables in outdoor or underwater applications. This innovation, patented by L&L, also guarantees electrical protection against polarity reversal, hot plugging, ESD and power surges, which can occur if there are faults in the electrical circuit
- Appliance class: class III
- Weight: 180 gr

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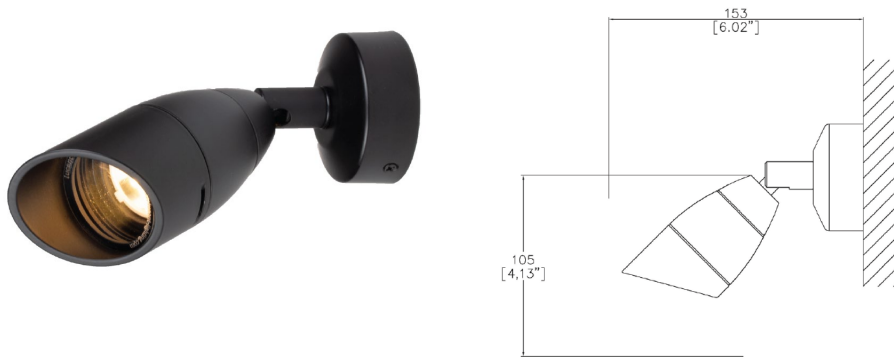
Reference: EL16

Luminaire description/purpose: Wall mounted downlight

Order code: VS001-27-24-BK-W Vista Spotlight. 2700K, 24°. Black Finish. Wall Mounting.

Illustration:

Dimensions:



Manufacturer: Lucent Lighting Unit 7, Great Cambridge Industrial Estate. Lincoln Road. Enfield. EN1 1SH

Contact: Alex Hay

Watts: 8.5W Lamp type: 2700k LED Beam angle: 24° Lumen output: 366lm Mounting: Wall mounted Dimensions: 50mm diameter 105mm x 153mm

Driver: ELED-30P-24T-SLP Slimline constant voltage phase dimmable (leading and trailing edge) max 24V max 30W 200-240V AC LED driver. IP66 rated.

**Notes:**

- Exact driver location to be determined with the project services engineer. Access & ventilation required.
- Contractor to liaise with luminaire manufacturer regarding all aspects of the installation process including wiring between drivers and control system.
- This product is rated IP65.
- Refer to LED notes towards the back of this document and to manufacturer's wiring instructions. These are for the attention of the contractor and manufacturer.
- Junction boxes to be kept to a minimum & mounted out of sight.
- The drivers and their wiring must be concealed from view. Cabling is to be neatly fixed down out of sight wherever possible (All details to be confirmed with the contractor).
- Circular economy fitting, included in the sustainability ProCycle scheme, 20-year duty of care following supply of the complete luminaire. (This offers customers the ability to send back products to us for repair or refurbishment to extend their life without having to buy new fittings.)

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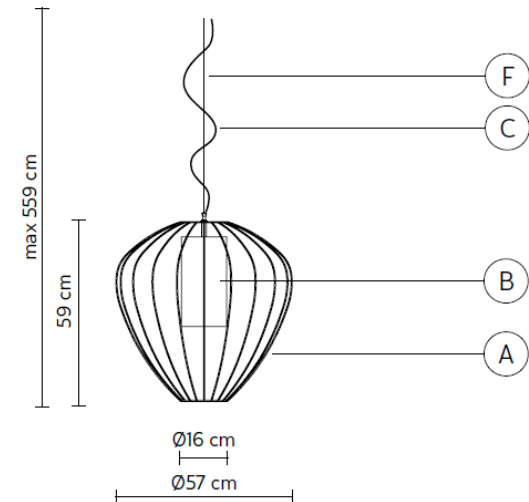
Reference: EL17

Luminaire description/purpose: Decorative pendant in tree

Order code: SE612-AM EXT CELL suspension available in finishes, steel inox lacquered glossy bronze or white **(EQUAL OR APPROVED COST EFFECTIVE ALTERNATIVE)**

Illustration:

Dimensions:



Manufacturer: Karman International sales department [REDACTED] t

Supplier: All Square Lighting 104 Talbot Road, London, W11 1JR Tel: 020 7727 0606  
email: [REDACTED] uk

Lamp type: E27 Warm white LED 10W 900lm

Weight: 5kg

**Notes:**

- IP65 rated

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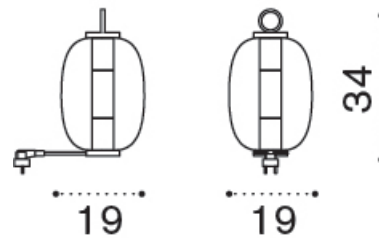
11.05.26

Reference: EL18

Luminaire description/purpose: Decorative floor mounted hard wired lantern

Order code: LNLAV1CD52 LUCERNA WIRED LANTERN FUMÉ GLASS AND ALUMINIUM to be hard wired

Illustration + dimensions:



Supplier: Ethimo 35 - 39 Old Street EC1V 9HX London Email: [REDACTED]

Watt: 6W Lamp type: LED 2700K Warm White, CRI: 85 230V Integrated driver Output: 450lm

**Notes:**

- Contractor to liaise with luminaire manufacturer regarding all aspects of the installation process prior to ordering.
- Refer to LED notes towards the back of this document and to manufacturer's wiring instructions. These are for the attention of the contractor and manufacturer.
- Refer to manufacturer's wiring instructions.
- IP44 rated

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Reference: EL19

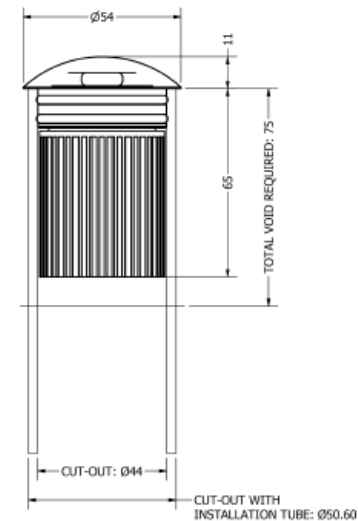
Luminaire description/purpose: Semi recessed floor washer

Order code: MD-PS90-SS-STD9-27-90-70-700, Stainless Steel 316L finish, 2700K. Driver code: INF700-14D

Illustration:



Dimensions:



PHOS, Unit 2, The IO Centre, Hearle Way, Hatfield, Hertfordshire, AL10 9EW

Holly Maddison-Bees

Watts: 9W Beam: 50 degree Lamp type: 2700K Warm white LED CRI: 90 Lumen output: 68 lm CRI: 91

Mounting: Ground recessed Driver: non-dimmable 700mA Dimensions: 44mm diameter cut out, 54mm diameter bezel, 75mm recess depth

**Notes:**

- Access and ventilation required for the driver.
- Refer to LED notes towards the back of this document and to manufacturer's wiring instructions. These are for the attention of the contractor and manufacturer.
- Installation tube accessory may be required TBC with mounting locations.
- IP67 and IK11 rated
- 5 year warranty

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11.05.26

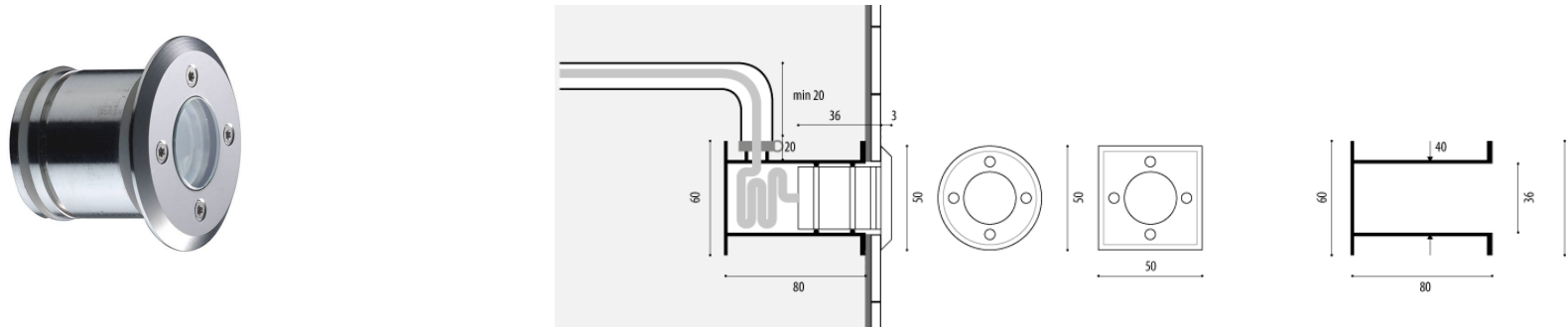
Reference: EL20

Luminaire description/purpose: Swimming pool mini spot light

Order code: 4.0012.20.12 Recessed spotlight with circular cover, 3000K warm white 135lm, 10° spot optic

Illustration:

Dimensions:



Manufacturer: Wibre Elektrogerate Edmund Breuninger GmbH & Co. Liebigstraße 9, 74211 Leingarten/Germany

Contact: Light Projects Address: 23 Jacob Street, London SE1 2BG

Watts: 2W Power: 350mA, Output: 135lm Mounting: Wall recessed with installation housing TBC with pool construction

Driver: non dimming CCT: 3000K CRI:80 SDCM: 3

**Notes:**

- IP68 up to water depth 5m IP69 protection against high pressure and high jet water temperatures
- Stainless steel 316Ti
- Supplied with 1.5m cable protection tube and 3m of underwater cable
- These fittings are to be fed by remote, Non dimmable drivers. Driver order codes and quantities to be confirmed with the manufacturer prior to order being placed.
- The driver can typically be located up to 30m away from the light – exact distance depending on the cable's diameter and length of lighting TBC with manufacturer. Exact driver location to be determined with the project services engineer. Access & ventilation required. If drivers are to be located externally IP rated drivers or IP rated enclosures are required. The drivers and their wiring must be concealed from view.
- Contractor to liaise with luminaire manufacturer regarding all aspects of the installation process, including wiring between drivers and control system prior to ordering.
- Refer to the mounting detail and the relevant architect's details.
- Refer to LED notes towards the back of this document and to the manufacturer's wiring instructions. These are for the attention of the contractor and manufacturer.
- Refer to the manufacturer's wiring instructions.

## GENERAL SPECIFICATION NOTES

- This specification is to be read in conjunction with all Lighting drawings pre-fixed with 141.
- Luminaire quantities are to be taken from the drawings.
- Wiring between the main body of the luminaire itself and the luminaire control gear and is to be supplied by the electrical contractor / engineer unless otherwise agreed with the luminaire manufacturer directly.
- All work is to conform to relevant building codes of practice and regulations, or as directed by the local authority.
- In consideration of both voltage drop and the high amperage on the secondary side in extra low voltage circuits (i.e. Not exceeding 50Volts AC) specific reference is to be made to cable and luminaire manufacturers' recommendations before costing for cable runs.
- Co-ordinated ceiling / floor / landscaping plans are to be produced by the architect / interior designer / engineer for approval by SLLD.
- The electrical contractor is to be responsible for the cabling installations.
- Luminaires, switches, sockets etc. Should not be fitted until the walls / floors / ceilings have been painted / finished.
- This specification incorporates lighting elements only. Non-lighting elements that are indicated in mounting details are to be specified by others.
- Contractor to check delivery of all lighting equipment as soon as possible to ensure items are ordered to suit the construction programme.
- Where working samples are required by the client for comment and approval, the contractor is to obtain these well in advance of final ordering dates.
- Where alternative lamp types are approved for use, e.g. alternative LED's than those specified, it is the contractor's responsibility to ensure that all associated control gear including drivers, transformers and dimming equipment is compatible and sized accordingly.
- All conduits and cabling are to be concealed and switch plates and sockets flush mounted unless otherwise agreed with the designers. Refer to control schedule for face plate description in each location.
- The main contractor / architect is to check with the fire officer / district surveyor whether fire boxes or hoods are required in order to retain the fire rating of the ceiling.
- All cable routes are to be agreed by the architects / interior designers / landscape architects and engineers.
- All exterior lighting and lights within wet areas are to be connected to an RCD (Residual Current Device) or as advised by M&E consultant.
- The contractor must install luminaires to the manufacturer's instructions to ensure the specified IP ratings are achieved.
- The contractor is to provide access and personnel to help adjust and lock off luminaires as necessary during the snagging/commissioning stages of the Project.
- The installation of the enclosed scheme will be considered incomplete until SLLD has visited site, checked the installation of luminaires and set up/commissioned adjustable luminaires and control systems.

## LED SPECIFICATION NOTES

- White LED lamps are to have the CRI and CCT specified on individual specification sheets.
- The luminaire manufacturer is responsible for ensuring that all LEDs supplied, are from the same manufacturer's production batch/ BIN, have the same CCT and have been compared *visually* to ensure the fittings have the same colour appearance throughout the project.
- The contractor is to confirm the exact wiring method required by the drivers specified with the manufacturer, prior to first fix/order. Different drivers require different wiring methods between the LEDs and their drivers e.g. constant current drivers (typically 350/700mA) require the LEDs to be wired in *series* and constant/regulated voltage drivers typically require *parallel* wiring. Similarly PHASE drivers require additional cabling to PHASE drivers.
- The contractor should pay attention to the polarity assigned to all cables. As electrical components, LEDs are particularly vulnerable if wired up incorrectly. Any damage is irreversible.
- All dimmable fittings to have driver capable to be dimmable down to 1%.
- All dimmable fittings to be capable to be dimmable down to 1%.
- Exact driver references, quantities, groupings and dimensions are to be confirmed with the manufacturer unless specified on individual luminaire specification sheets.
- Driver locations are to be confirmed by site engineers prior to order in conjunction with the design team. Typically they can be mounted 20m away from the LED lamps and should be in accessible ventilated locations. Exact driver distances to be confirmed with the manufacturers.
- The LED controller is supplied by the LED manufacturer and is to be as given on the specification sheet. Its location is to be confirmed by site engineers prior to order and requirements.
- All drivers and controllers are to be compatible with the lighting control system. The exact dimming protocol is to be confirmed to the LED manufacturer by contractor on order. The contractor is to ensure the compatibility of the drivers and controller and overall lighting control system and the specification of cabling between them prior to first fix/order.
- LED technology is constantly evolving and luminaire manufacturers keep stocks of specific LED batches for a limited time only for re-lamping/maintenance purposes. For this reason, it is recommended that spare LED lamps/ luminaires are ordered with the initial order to keep in the client's store for future maintenance purposes. The LED's specified have a lifespan of in general 50,000 hours.
- The extent of the pre-commissioning and on-site programming of the controller is to be discussed with the lighting designer and is to be allowed for in all quotations