



Notes

- This drawing is provided for planning purposes to show the external lighting strategy, and should be developed at technical design stage.
- Emergency lighting design to be provided at the technical design stage.
- Luminaire positions are indicative and will be subject to final site layout.
- Levels of illuminance are calculated and shown at ground level. Calculations are based on luminaires at full output/ maintenance factor = 1 to represent the worst case scenario for assessment purposes.
- The model is based on calculations on a flat ground plane. No topography or proposed levels have been built into the calculation model.
- Isolines contours represent values of illuminance calculated in lux.
- The lighting design has been provided in accordance with the Clients requirements, instruction and risk assessment. The lighting provided is intended to aid in wayfinding only - and not to provide task illumination.
- The external lighting shall be provided in accordance with the requirements for an E2 Environmental Lighting Zone, to minimise the impact on bats and on the environment. Refer to the ILP Guidance Note for the Reduction of Obtrusive Light (GN 01). All luminaires have been specified in 3000K warm white to minimise the impact on bats. All lighting proposed will be downward directional with 0% upward light output.
- The luminaires are proposed to operate dusk till dawn via a photocell. A 7-day programmable time switch to be provided to allow the timings of operation to be reduced if required.
Control strategy:
 - External lighting to operate dusk till dawn.
 - Wiring schematics and full details of equipment locations to be provided at the technical design stage.
- All luminaires above roller shutter doors to loading areas to be controlled via a manual switch within each unit.
- This drawing should be read in conjunction with all relevant architectural, structural, mechanical and electrical services information.
- Refer to accompanying Designers Risk Assessment for details of design risks identified.
- Do not scale from this drawing.
- All measurements are in millimetres unless stated otherwise
- All symbols used are generic and should not be considered as true representations of size or dimensions of actual luminaires.

Luminaire Legend

- X1A IP66, 3000K LED luminaire building mounted at 5.6m with 0.3m outreach bracket and 0° tilt. As Kingfisher Italo 1, 2 Modules with S05 optic (3690 lumens/ 30W/ 525mA) or equal and approved.
- X1B IP66, 3000K LED luminaire building mounted at 3.5m with 0.3m outreach bracket and 0° tilt. As Kingfisher Italo 1, 2 Modules with S05 optic (3690 lumens/ 30W/ 525mA) or equal and approved.
- X2A IP44 rated single downward directional wall luminaire, mounted at 1.8m AFFL. Modena Outdoor manufactured by Konstsmide Lighting or equal and approved.
Fitted with a single GU10 lamp holder. Developer to provide an LED 3000K. (375 Lumens / Maximum 5.5W) lamp to be installed.
- X2B IP44 rated single downward directional wall luminaire, mounted at 0.4m AFFL. Modena Outdoor manufactured by Konstsmide Lighting or equal and approved.
Fitted with a single GU10 lamp holder. Developer to provide an LED 3000K. (375 Lumens / Maximum 5.5W) lamp to be installed.
- X3 IP66 3000K LED 0.8m high downward directional bollard luminaire WITH 45° beam angle. As Stral Lighting 70mm Single Bollard (500 lumens/ 5W) or equal and approved.
- X4 IP66, 3000K LED luminaire building mounted at 6.2m with 0.3m outreach bracket and 0° tilt. As Kingfisher Italo 1, 3 Modules with S05 optic (7030 lumens/ 58W/ 700mA) or equal and approved.

Legend

- = 10 Lux
- = 5 Lux
- = 4 Lux
- = 2 Lux
- = 1 Lux
- = 0.5 Lux
- = 0.2 Lux
- = Site Boundary

P02	Updated to Reflect Comments	TB / BB	01.09.23
P01	Preliminary Issue	TB / BB	31.08.23
Rev	Details:	By / Reviewed	Date


 The Lighting Bee Ltd
 22 Berkshire Drive, Exeter, Devon, EX2 1NF
 Tel +44 (0)17840 054601 | www.the-lighting-bee.co.uk

CLIENT
 INTEGRUM BUILDING SERVICES LTD

PROJECT TITLE
 The Rise
 Broxted
 CM16 2BJ

DRAWING TITLE
 External Lighting Strategy
 Levels of Horizontal Illuminance Shown at
 Ground Level from External Lighting Only
 Full Output Shown (MF=1)

SCALE AT A1
 1:250

DISCIPLINE
 Lighting

DRAWING NUMBER
 1163-LB-EX-XX-DR-E-7080-31

Project - Originator - Zone - Level - Type - Role - NBS class - Sequential Number

STATUS
 Preliminary

ISSUE
 P02