



External Lighting Design Statement

Leighton Park School – Entrance Lodge

Discharge of Condition 8 (External Lighting) – Reading Borough Council

Site / Development	Leighton Park School – Entrance Lodge
Approved Drawing Referenced	240119-40-101 Rev B – Proposed Elevations (received by LPA 21/11/2025)
Condition Reference	Condition 8 – External Lighting
Local Plan Policies	Reading Borough Local Plan 2019 – Policies CC7, CC8 and EN12
Prepared By	Carter Electrical Installation Ltd
Date	27 July 2026

1. Purpose of this Statement

This statement is submitted to discharge Condition 8 attached to the planning permission for the above development. The condition requires that details of the external lighting shown on the approved North (front) elevation of drawing 240119-40-101 Rev B be submitted to and approved in writing by the Local Planning Authority (LPA) before the lighting is installed, covering: (a) light levels, (b) coverage, and (c) hours of operation. This statement addresses each of these matters in turn, together with the proposed control regime.

2. Proposed Fitting

Two identical wall-mounted, downward-directed external light fittings are shown on the approved North (front) elevation, positioned either side of the main entrance door. The proposed fitting is the Ledkia "Miseno" Outdoor Wall Lamp, Black (Ref. 76150_153785), a fully enclosed IP44-rated cube fitting taking a single GU10 lamp, with a glass diffuser directing light downward only. Key specification (applicable to both fittings):

Fitting	Ledkia Miseno Outdoor Wall Lamp, Black (Ref. 76150_153785)
Quantity	2 (both to the same specification)
Lamp base	GU10 (lamp not supplied with fitting – see Section 3)
Light distribution	Single downward-facing aperture (no upward or side spill from the fitting body)
IP rating	IP44 (protected against splashing water and dust)
Electrical insulation class	Class II
Max wattage	7 W each
Supply	220–240V AC, 50–60Hz
Dimensions	88 mm × 68 mm × 80 mm

Material	PC / ABS plastic, black finish
Mounting	Surface-mounted to wall, screw-fixed

3. Lamp Selection

To limit light spill in the interests of nature conservation and residential amenity (Policies CC7, CC8, EN12), and following consultation with the Council's Ecologist, the lamp specified for both fittings is a GU10 5W LED, approximately 470 lumens, 100° beam angle, warm white 2700K. This is the lamp to be installed in both fittings.

Lamp	GU10 5W LED, ≈470 lm, 100° beam, 2700K warm white
Quantity	2 (one per fitting)

Note: the Miseno fitting accepts any standard GU10 LED lamp (up to 65mm length, per the manufacturer's datasheet). There is no technical, electrical or operational reason preventing the use of a 2700K lamp in place of a higher colour temperature; GU10 5W, ≈470lm, 100° beam lamps in 2700K are a standard, widely available product. Output and beam characteristics are equivalent to the 3000K lamp originally specified, so the light levels and coverage figures in Section 4 remain valid without amendment.

4. Light Levels and Coverage

Methodology: the manufacturer's datasheet does not include a full IES photometric file (the fitting is sold with a lumen output dependent on the lamp fitted, listed as "0 lm" in the datasheet as a placeholder for "lamp not included"). In the absence of a supplied photometric file, indicative illuminance has been calculated using a standard point-source method, based on the confirmed lamp's rated lumen output, the fitting's 100° downward beam, and a mounting height of 1.5m above finished ground level, scaled directly from the approved elevation drawing 240119-40-101 Rev B. This is considered a proportionate level of assessment for two low-wattage, fully-shielded domestic-grade fittings of this kind.

Indicative illuminance at ground level below each fitting, GU10 5W / ≈470 lm lamp, mounting height 1.5m (the calculation applies equally to both fittings, which are of identical specification):

Horizontal distance from fitting base	Indicative illuminance
0 m (directly below fitting)	≈ 93 lux
0.5 m	≈ 80 lux
1.0 m	≈ 54 lux
1.5 m	≈ 33 lux
1.8 m (edge of beam cone)	≈ 20 lux
Beyond ≈ 1.8 m	Outside the defined beam – negligible direct spill

Coverage: each fitting's downward 100° beam produces a contained pool of light approximately 3.6m in diameter on the ground directly beneath and around it, sufficient to illuminate the entrance door and adjacent steps for safe pedestrian use. Scaled from the approved elevation, the two fittings are positioned approximately 3.6m apart, either side of the main entrance door, so the two light pools adjoin at the midpoint without significant overlap – giving continuous, contained illumination across the entrance frontage without extending beyond it. Because both fittings are fully shielded and direct light downward only, there is no direct upright and no direct spill toward neighbouring land, trees or watercourses beyond this footprint.

5. Hours of Operation

Season	Operating hours
Winter	06:00–09:00 and 16:00–23:00
Summer	20:00–23:00

Operation outside of these windows will not occur, as the network timer restricts switching to the periods above and the dusk-till-dawn sensor provides a further override so the light cannot operate in daylight even within a scheduled window.

6. Lighting Controls

Both fittings are controlled together, from a single shared network timer and dusk-till-dawn sensor:

Network (astronomical) timer: restricts both fittings to the seasonal windows in Section 5 only.

Dusk-till-dawn photocell sensor: acts in conjunction with the timer so the fittings only illuminate once ambient light has fallen below the sensor threshold, preventing operation in daylight even within a scheduled window (e.g. on darker winter mornings/evenings the actual "on" period will be shorter than the outer time window, never longer).

Together, these controls ensure the lighting operates only when needed for safe pedestrian access at the entrance, and only within the approved hours and light conditions.

7. Compliance with Local Plan Policies CC7, CC8 and EN12

The proposed lighting has been designed to limit the impact of light pollution on nature conservation and residential amenity, consistent with Policies CC7, CC8 and EN12 of the Reading Borough Local Plan 2019, through:

- Two low-wattage (max. 7W each) fittings, limited to the minimum needed for safe entrance access.
- Fully enclosed, downward-only beams with no direct uplight.
- Contained light pools of approximately 3.6m diameter each, adjoining at the midpoint between the two fittings with no direct spill beyond this footprint.
- A warm colour temperature 2700K lamp, selected following consultation with the Council's Ecologist to further minimise disruption to nocturnal wildlife in proximity to the adjacent woodland habitat.
- Restriction of operation to defined seasonal hours via a shared network timer, combined with a dusk-till-dawn photocell to prevent unnecessary daytime operation.

8. Conclusion

The details set out above are submitted to discharge Condition 8, covering the light levels, coverage and hours of operation of the two external light fittings shown on the approved North elevation (Drawing 240119-40-101 Rev B). It is respectfully requested that the LPA confirm these details are acceptable, following which the lighting will be installed, maintained and operated strictly in accordance with this statement.

Appendices: A – Ledkia Miseno Outdoor Wall Lamp datasheet (76150_153785), attached overleaf. B – Approved drawing 240119-40-101 Rev B, Proposed Elevations.

Appendix A – Ledkia Miseno Outdoor Wall Lamp Datasheet (76150_153785)



Miseno Outdoor Wall Lamp Black

Ref. 76150_153785 · EAN 8445044039111

Available Variants · Colour
· Black (Ref. 76150-153785)



Key Features

- Cap Code: GU10
- Light Source: GU10 Bulb
- Brand: Edit
- Coastal Resistant: No
- Battery Operated: No
- Wifi: No
- Luminous Efficiency: 0 lm/W
- Glare Factor: N/A
- Lumen: 0 lm
- Number of LEDs: 0
- Colour Temperature: N/A
- Includes Sensor: No
- Electrical Insulation Class: II
- Max Wattage: 7 W
- Voltage Range: 220-240V AC
- Ambient Working Temperature: -20 °C-- +50 °C
- Fitting Material: PC, ABS Plastic
- Weight: 0.13 kg
- Minimum distance to the coast: Not suitable within 15 miles of the coast
- Installation: Wall, Surface
- Not Included: Bulbs
- Location: Outdoor
- Driver specifications: No
- Light Colour: N/A
- Power Factor: 0
- Colour Rendering Index: N/A
- No Flicker: N/A
- LED Performance: 0 lm/W
- Hours: N/A
- Solar Panel: No
- Frequency: 50-60 Hz
- No. Of Lights: 1
- IP Rating: IP44
- Colour: Black
- Dimensions: 88 mm x 68 mm x 80 mm



Want to learn more about this product? Call us on 020 3739 1978 and ask for reference 76150_153785
Or visit <https://www.ledkia.com/uk/buy-outdoor-led-wall-lights/76150-miseno-outdoor-wall-lamp-in-black.html>

V24052026



Miseno Outdoor Wall Lamp Black

Ref. 76150_153785 · EAN 8445044039111

Image Gallery





Miseno Outdoor Wall Lamp Black

Ref. 76150_153785 · EAN 8445044039111

Product Description

The Miseno Outdoor Wall Lamp in Black is undoubtedly a highly decorative and versatile element that will adapt to any style. The high quality finish and its IP44 rating make this wall light resistant to dust and water splashes. Therefore, we can install the Black Miseno PC Wall Lamp in a wide range of spaces such as balconies, canopies or covered outdoor walkways.

It can be mounted on any type of surface by screwing the wall light to any wall. In order to maintain the IP44 protection, the customer must ensure that all supplied components are properly fixed and secured.

* GU10 Max 65 mm

Requires 1 GU10 bulb NOT INCLUDED in the product.

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Information subject to change



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Or visit <https://www.ledkia.com/uk/buy-outdoor-led-wall-lights/76150-miseno-outdoor-wall-lamp-in-black.html>

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Miseno Outdoor Wall Lamp Black

Ref. 76150_153785 · EAN 8445044039111

Compatible Accessories



GU10 5W LED Bulb 470 lm 100°
107967



GU10 6W LED Bulb 550 lm 100°
107977



GU10 7W LED Bulb 100° 600 lm
107989



GU10 8W LED Bulb S11 700 lm
108000



Waterproof Connector Cable 3 Contacts 0.5-2.5mm² IP68
20761



Waterproof Cable Connector with 3 Contacts IP68
173389



GU10 5W Glass LED Bulb 380 lm
37681



6W GU10 100° LED Bulb S11 470 lm
2666



XTREM H07RN-F Cable Hose for Outdoors (3x1.5mm²).
7250



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Appendix B – Approved Drawing 240119-40-101 Rev B, Proposed Elevations

