

**12b Hillhouse Place
Fartown
Huddersfield
HD1 6EF**

Light Pollution Statement

December 2018



Lighting Statement

The external lighting scheme will be designed/Installed at 12b Hillhouse Lane.

The project deals with an application for change of use from shop (A1) to Takeaway (A5) external lighting would consist of trough lighting for the signage which would act as directional lighting only illuminating the fascia signage there will be no other external luminaries.

1.0 Proposed Lighting

Store signage mounted on the building façade will be externally illuminated by dedicated signage lighting. This will illuminate designated areas of the building façade from above. The luminaries will be mounted on 1m outreach brackets. This enables the light source to be partially screened and the light output directed back towards the building façade. The signage lighting will be operated from 16.30 – 23.00 every day .

Design Criteria

Table 1 – 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 centres or suburban locations
E4	Urban	High district brightness	Town/city centres with high levels of night-time activity

Guidance on environmental classification (GN01:2011,ILP)

We would classify the zone within which the project is situated as Environmental Zone E3.

(1) Upward Light Ratio

Calculations for Upward Light Ratio have not been provided for this scheme. The proposed building mounted signage lighting is positioned on outreach brackets and angled to project light back towards the façade and downwards.

(2) Light Intrusion (into windows) – These values are suggested maxima and need to take account of existing light intrusion at the point of measurement. There are residential buildings facing the property however they are not sufficiently close enough to the site onto which light can spill, calculations for Light Intrusion are not considered to be a

requirement and have not been included in this report. It should also be noted that the properties in question are not directly in front.

(3) Luminaire Intensity – This applies to each source in

Measurements for Luminaire Intensity associated with the signage lighting have been calculated from observer point directly in front of the site. The calculated values are within the prescribed limits for the designated Environmental Zone.

(4) Building Luminance – This should be limited to

Measurements for Building Luminance have been calculated for the building façade. Details are provided in appendix C.

The calculated values are within the prescribed limits for the designated Environmental Zone.

Building Signage illumination

Recommended Luminance levels for signs are provided in the ILP Guidance note PLG 05 – The Brightness of Illuminated Advertisements. The luminance limits are expressed in cd/sqm and are dependent on the size of the proposed signage. Measurements for the external illumination of the signs is provided for both the illumination level and as a measurement of the building Luminance at the signage positions.

The calculated values are within the prescribed limits for the designated Environmental Zone. Additional restrictions apply to signs which are cyclic or flashing in nature however it can be confirmed that Static illumination is proposed for this installation.

Store Signage

Store signage mounted on the building façade will be externally illuminated by dedicated signage lighting. This will illuminate the designated signage areas on the building façade from above. The luminaires will be mounted on 1m outreach brackets. This enables the light source to be partially screened and the light output directed back towards the building façade.

Conclusion

This report demonstrates that the proposal for the additional lighting designed would be for the signage only has considered the impact of the proposed scheme on the surrounding environment and implemented through design, appropriate measures designed to ensure alignment with the recommended codes of practice to negate potentially obtrusive light.

The scheme as proposed has been demonstrated to operate well within the current recommended luminance limits and well within the recommended illumination limits for potential light spill.



ecolux super lens

technical specification

LED strip

Over 1200 Lumens per metre LED output.
Only 14.4 watts per metre power consumption
75% energy saving compared to Fluorescent.
24 volt input, less current less voltage drop.
6000k cool white or 3000k warm white 120 degree angle.
IP65 protected, 50,000 hours+ lamp life.
5 year Warranty.
Full CE certification and ROHS compliant.

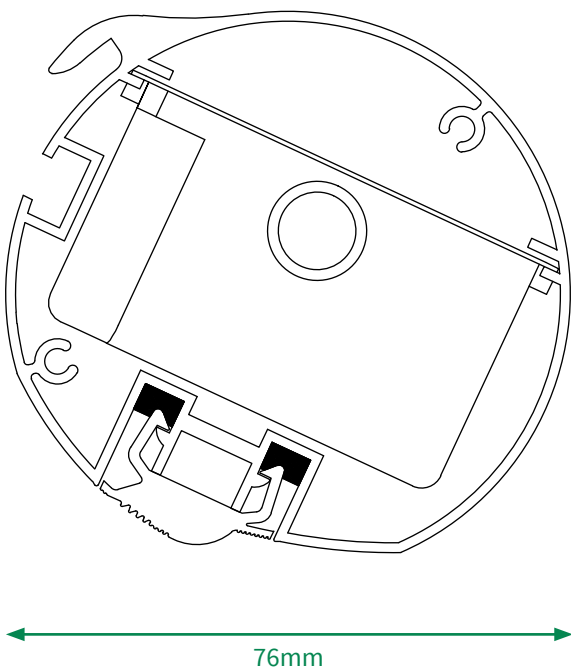
Drivers

Epoxy encapsulated fully isolated case with IP67 protection.
Constant voltage design.
Short circuit, over current, over voltage protection.
Fitted onto Kwik release slide in Gear Trays.
Full CE certification and ROHS compliant.

Light Fitting

Specialist designed asymmetric optical lens offers even illumination up to 5 metres deep with minimal backspill.
Specially designed 76mm diameter aluminium extrusion supplied up to 6000mm lengths which can be joined together using cast aluminium connectors.
Die cast aluminium end caps.
Standard 300mm Kwik Fit brackets.
Casing sealed and certificated to IP64.
Full CE certificate and 5 year parts warranty.
Conforms to EN60598-2-1:1989, and BS EN 60598-1:2008 "UK Deviations Only", BS EN62471 and high ambient temperature test 40°C.

(The manufacturer's reserve the right to alter specifications without prior notification).



options

Cold or Warm White LED colour.
RGB RF remote control colour change available on request.
Non-standard brackets available upon request.
Standard and non-standard colours.
Photo electrical cell switches.

brackets

3 pre-set positions enable installer optimum beam angle for sign depth.
Setting 1 300mm projection 0-2 metre depth.
Setting 2 500mm projection 2-3 metre depth.
Setting 3 1000mm projection 3-5 metre depth.

Price will include: Polyester powder coated black or white and 300mm universal brackets.

Telephone: **01922 721 133**
Facsimile: **01922 659 545**



Portland Lighting
Units A2 & A3
Walsall Enterprise Park
Regal Drive
Walsall
WS2 9HQ

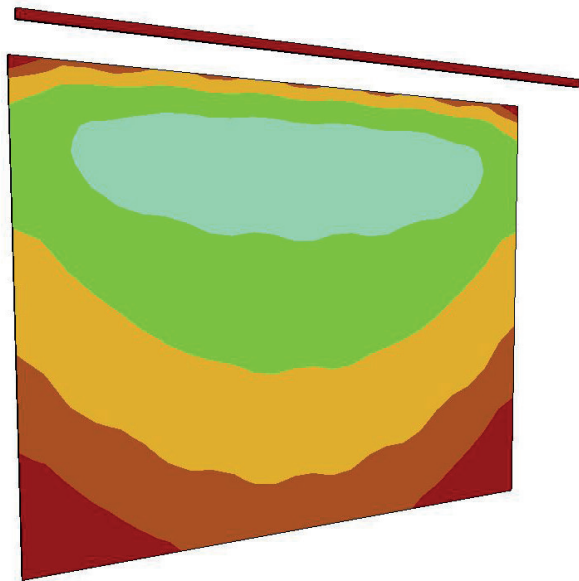


ecolux super lens photometry

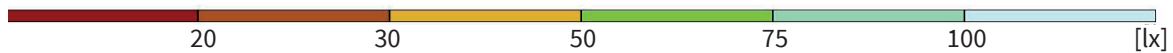
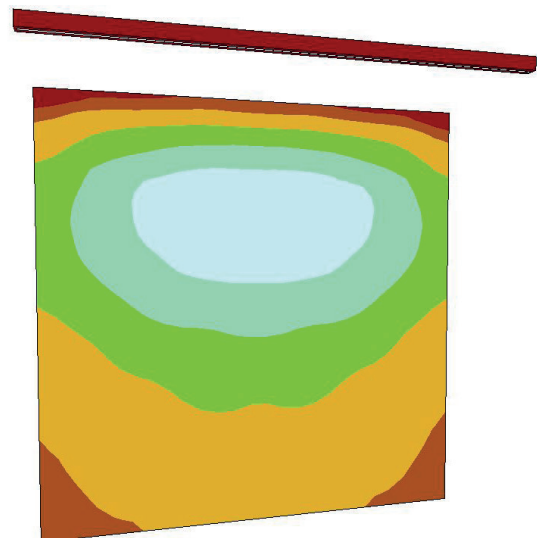
Ecolux Super Lens Setting 3

1000mm projection for sign face 3-5m top to bottom.

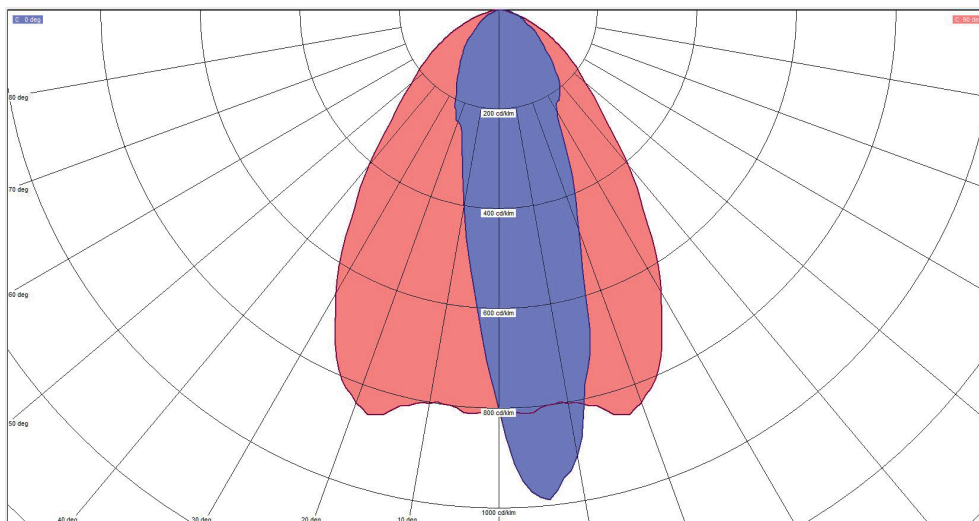
Example 6 Metre Wide sign (5m deep)



Example 3 Metre Wide sign (5m deep)



Polar Curve Super Lens Position 3



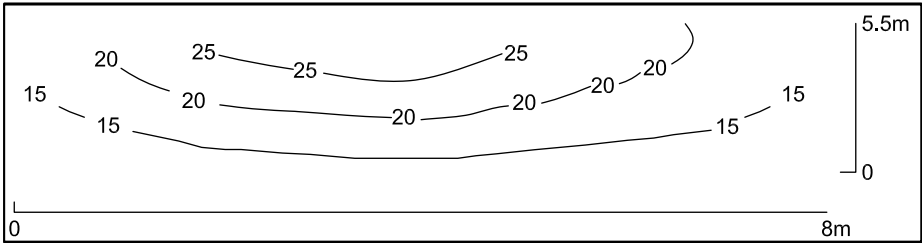
See [website link](#) (or [click here](#)) for full photometric compatible download.

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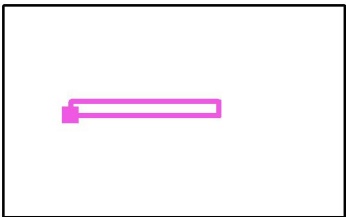
Portland Lighting
Units A2 & A3
Walsall Enterprise Park
Regal Drive
Walsall
WS2 9HQ

Signage 1000mm Outreach Bracket / Hillhouse Lane / Isolines (E, Perpendicular)



Values in Lux

Position of surface in external scene:
Marked point:
(-17.100 m, -24.900 m, 0.000 m)



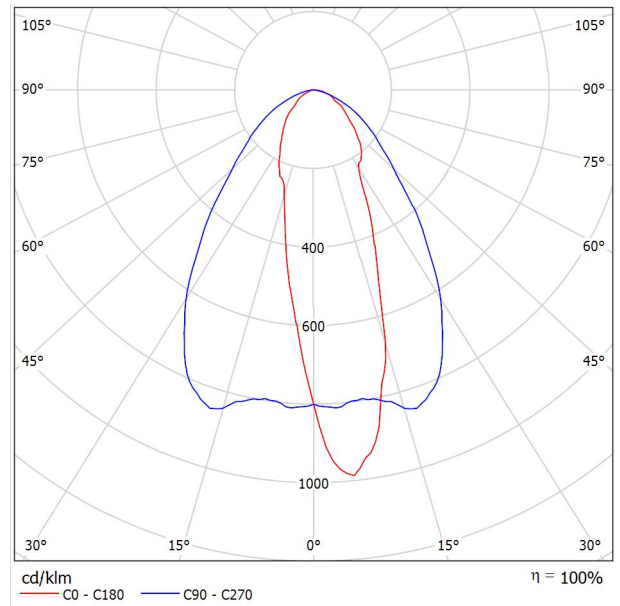
Grid: 128 x 8 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
20	12	32	0.605	0.369

PORTLAND LIGHTING Ecolux-SuperLens-4m-P3 Ecolux-SuperLens-4m-P3 / Luminaire Data Sheet

Luminous emittance 1:

See our luminaire catalog for an image of the luminaire.



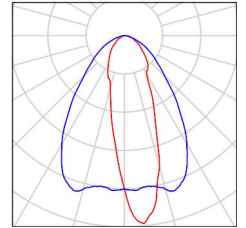
Luminaire classification according to CIE: 100
CIE flux code: 68 90 98 100 100

Due to missing symmetry properties, no UGR table
can be displayed for this luminaire.

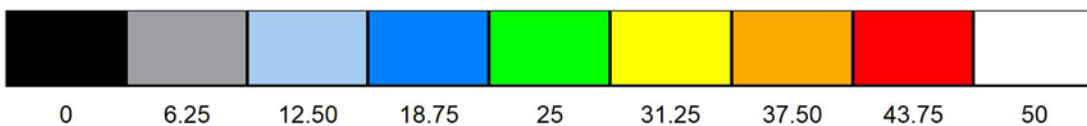
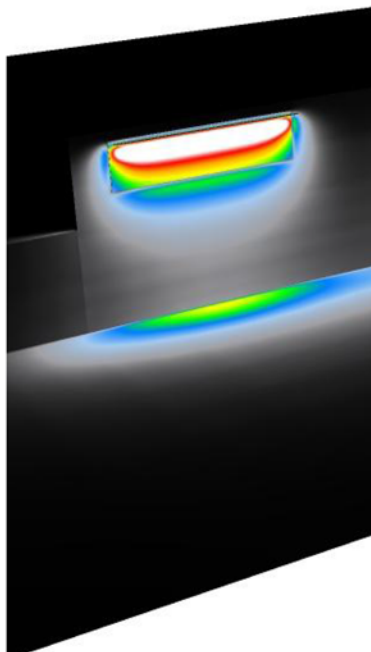
Signage 1000mm Outreach Bracket / Luminaire parts list

8 Pieces PORTLAND LIGHTING Ecolux-SuperLens-4m-P3
 Ecolux-SuperLens-4m-P3
 Article No.: Ecolux-SuperLens-4m-P3
 Luminous flux (Luminaire): 2909 lm
 Luminous flux (Lamps): 2909 lm
 Luminaire Wattage: 70.1 W
 Luminaire classification according to CIE: 100
 CIE flux code: 68 90 98 100 100
 Fitting: 1 x LED MODULE (Correction Factor 1.000).

See our luminaire catalog for an image of the luminaire.



Signage 1000mm Outreach Bracket / False Colour Rendering



lx