

Artin.

External Lighting Design Strategy

External façade feature lighting has been designed for Kings House Manchester. The premise of the design is to sensitively illuminate the window reveal elements of the building highlighting the apertures across the façade, and the detailed stone and brickwork which make up the window reveals.

The external façade lighting extent has been focused on the King Street West, Southgate and Buttler Lane elevations only, as these were considered as primary views of the building. Consideration was made to how the building would be perceived at night, from the Deansgate approach which assisted in the guidance of the external lighting design strategy across the main façades.

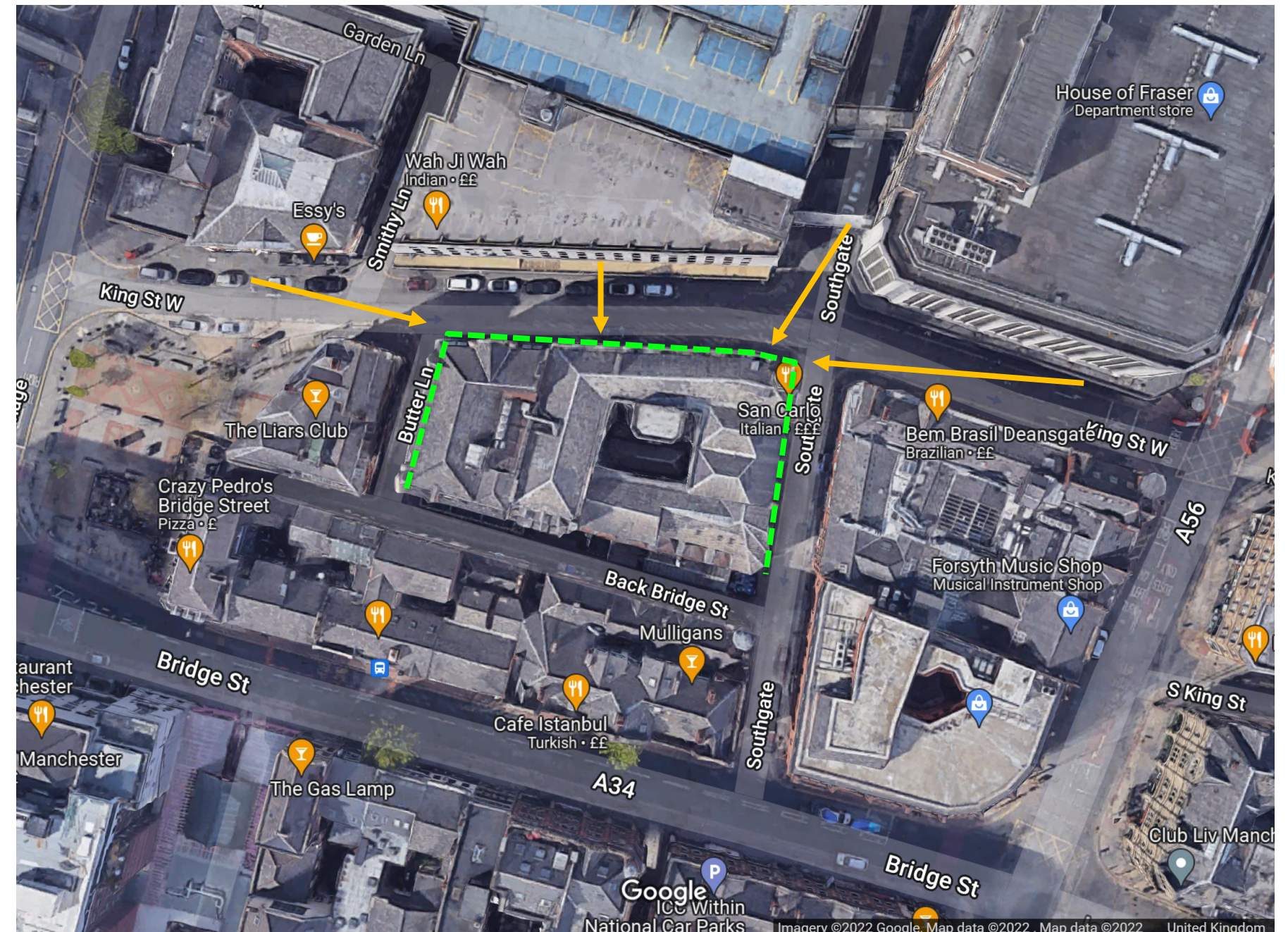
Conceptually the lighting design strategy is to sensitively illuminate the external window reveals across the key elevations highlighted. The selection of architectural products is key as we need to minimise direct view of the luminaires as well ensuring the glare and light spill is addressed also. To mitigate these issues, we selected and tested a range of products, reviewing luminaire size, visibility from ground level and output of light.

On the King Street West elevation 2no product types have been specified. The first being a compact surface mounted architectural spotlight which has been specified with a cowl attachment and glare louvre minimise glare issues. The second product which has been specified for the King Street West elevation, is a linear LED profile, which would be integrated into a bespoke housing channel, designed to sit within the existing window reveal minimising its direct view and impact on the existing façade aesthetic. In the positions where the linear lighting has been proposed there are no existing flat ledges for the lighting equipment to be housed on, thus requiring a bespoke fixing solution which would be developed to minimise the visual impact on the existing façade.

On the Southgate elevation, the approach of illuminating the window reveals have been retained at high level, which wraps around the façade from the King Street West elevation. Direct / indirect wall mounted luminaires have been specified to illuminate the double height window arch reveals for the ground and first floor level. These have been selected with narrow beam optics and glare louvres focusing the light on the brick work elements of the arch reveals.

Illumination to Buttler Lane elevation, is primarily focused on illuminating the window reveals. Illumination will be provided by the linear LED luminaires integrated into the bespoke housing channels which follow around from the King Street West elevation.

All specified lighting equipment shall be selected with dimmable lighting control gear, allowing for timed scene setting. The external lighting levels will be set at the commissioning stage, ensuring the lighting is evenly balanced across the façade provide uniform and subtle highlighting. The external lighting shall be automatically switched on via a remote photocell trigger. This shall energise the external lighting at dusk, and a time clock will automatically switch off the lighting at a predefined curfew time.



----- Key Elevations for Illumination



Sketch visual design intent

Subtle illumination to the window reveals of the Kings Street West and Southgate elevations. Illumination provided primarily by compact LED spotlights surface fixed to window reveal ledges minimising their direct view from ground level.



Proposed Wiring Strategy

An assessment has been made on the feasibility of wiring routes for the external lighting positions across the façade. The assessment reviews potential existing architectural features such as ledges and plinths where cabling can be run externally for connection of the external luminaires. Utilising external wiring routes can assist in minimising the requirement for cable exit points from the internal power source, however this needs to be assessed in line with the internal distribution routes and interior layouts. Having review the feasibility of external cable routes and distribution of power in coordination with the electrical engineer, we believe desired outcome is to run the cable routes internally within the building, and then distribute the power direct out to each window reveal thus minimising the requirement for external cable runs across the façade. Further exploratory works for cable routing would be required at strip out stage to assess feasibility of proposed positions and cable routes.



- Substantial ledge for cable routes
- Minimal ledge for cable routes
- No clear run on the external façade for cable routes

Rear entry from within the suites currently looks like the cleanest solution for these positions due to no ledge details on the façade at these levels



Substantial ledge for cable routes

Minimal ledge for cable routes

No clear run on the external façade for cable routes



Substantial ledge for cable routes

Minimal ledge for cable routes

No clear run on the external façade for cable routes



- - - - - Substantial ledge for cable routes
- - - - - Minimal ledge for cable routes
- - - - - No clear run on the external façade for cable routes
- - - - - Existing power for lighting in this location

LIGHTING LAYOUTS

GENERAL NOTES

REMOTE DRIVER POSITIONS SHALL BE AGREED ONSITE WITH THE MAIN CONTRACTOR. THE AGREED LOCATIONS ARE TO BE OUT OF DIRECT VIEW BUT ACCESSIBLE FOR POTENTIAL MAINTENANCE REQUIREMENTS.

IF THE REMOTE DRIVER POSITIONS ARE TO BE LOCATED EXTERNALLY, THE MAIN CONTRACTOR SHALL ALLOW FOR THE APPROPRIATE EXTERNAL RATED ACCESSIBLE ENCLOSURES TO HOUSE THE LIGHTING EQUIPMENT. THESE SHALL BE POSITIONED IN AN ACCESSIBLE LOCATION OUT OF DIRECT VIEW FROM GROUND AND FIRST FLOOR LEVEL.

CABLING TO THE LUMINAIRES SHALL BE INSTALLED NEATLY AND CONCEALED WHERE POSSIBLE, UTILISING LEDGE DETAILS ETC TO FIX THE CABLING FROM DIRECT VIEW FROM GROUND AND FIRST FLOOR LEVEL.

ALL ELECTRICAL JUNCTION BOXES SHALL BE INSTALLED NEATLY AND CONCEALED FROM DIRECT VIEW WHERE POSSIBLE, UTILISING LEDGE DETAILS ETC TO FIX THE JUNCTION BOXES FROM DIRECT VIEW FROM GROUND AND FIRST FLOOR LEVEL. JUNCTION BOXES SHALL BE COLOUR MATCHED TO MATCH AFFIXING STRUCTURES.

FIXING DETAILS

FIXING OF ALL LIGHTING EQUIPMENT SHALL BE AGREED ONSITE WITH THE MAIN CONTRACTOR AND PROJECT ARCHITECT / CONSERVATION SPECIALIST.

FIXING DETAILS SHOULD HAVE MINIMAL IMPACT ON THE FABRIC OF BUILDING WHERE POSSIBLE, BUT SHALL ENSURE ALL LIGHTING EQUIPMENT IS PERMANENTLY FIXED AND SAFELY INSTALLED.

FINAL FIXING POSITIONS TO BE REVIEWED AND AGREED ONSITE WITH THE MAIN CONTRACTOR FOLLOWING THE LIGHTING MOCK UP REVIEW.

LIGHTING CONTROL

THE EXTERNAL LIGHTING SHALL BE CONTROLLED VIA THE SPECIFIED ARCHITECTURAL LIGHTING CONTROL SYSTEM, WITH AUTOMATIC SWITCH ON VIA AN EXTERNAL MOUNTED PHOTOCELL (PHOTOCELL LOCATION TO BE AGREED ONSITE WITH THE MAIN CONTRACTOR). TIMED SCENE TRANSITIONS SHALL BE PROGRAMMED THROUGH THE LIGHTING CONTROL SYSTEM, WITH AN AGREED AUTOMATIC SWITCH OFF TIME PROGRAMMED IN. MANUAL OVERRIDE OF THE EXTERNAL FACADE LIGHTING SHALL BE PROVIDED VIA THE MASTER SCENE SET CONTROLLER

ALL EXTERNALLY MOUNTED LUMINAIRES SHALL HAVE DIMMING CONTROL UNLESS STATED OTHERWISE ON THE LUMINAIRE SCHEDULE

ARCHITECTURAL LIGHTING MOCK UP

WHERE FEASIBLE ALL EXTERNAL LIGHTING ELEMENTS SHALL BE MOCKED UP / TESTED WITH THE PROPOSED LIGHTING EQUIPMENT PRIOR TO ORDERING ANY LIGHTING EQUIPMENT. THE MOCK UP SHALL BE VIEWED WITH THE CLIENT, ARCHITECT, CONSERVATION SPECIALIST AND LIGHTING DESIGNER PRESENT, TO ENSURE ALL PARTIES ARE HAPPY WITH THE PROPOSED EFFECTS.

THE MAIN CONTRACTOR SHALL PROVIDE POWER AND SAFE ACCESS FOR THE MOCK UP WITH THE ELECTRICAL CONTRACTOR UNDERTAKING THE TEMPORARY INSTALLATION WORKS FOR THE TESTS.

THE MOCK UP SHALL BE VIEWED DURING THE HOURS OF DARKNESS TO VIEW THE PROPOSED LIGHTING EFFECTS. THE MAIN CONTRACTOR / ELECTRICAL INSTALLER SHALL MAKE THE APPROPRIATE ALLOWANCES FOR UNDERTAKING THE MOCK UP WORKS AND EVENING (NIGHTTIME) LIGHT TESTS.

EXTERNAL SIGNAGE

SIGNAGE LIGHTING AND EXTERNALLY ILLUMINATED SIGNAGE TO BE CONFIRMED



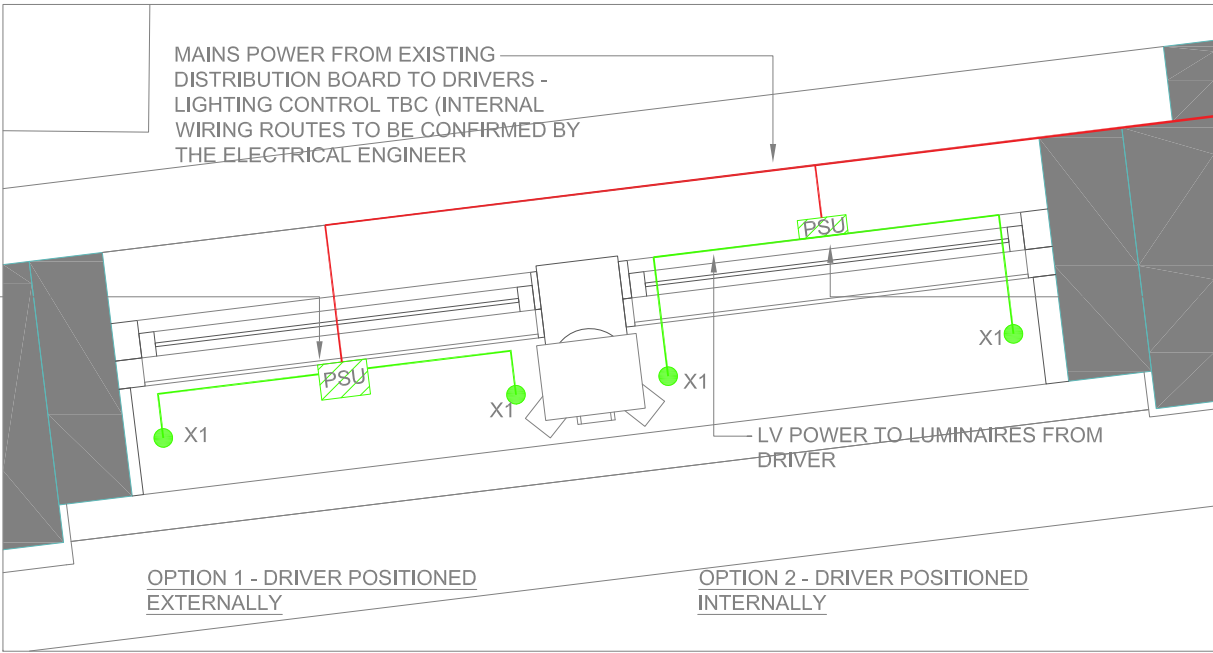
EXTERNAL FEATURE LIGHTING DESIGN INTENT - MAIN FACADE



EXTERNAL FEATURE LIGHTING DESIGN INTENT - MAIN ENTRANCE



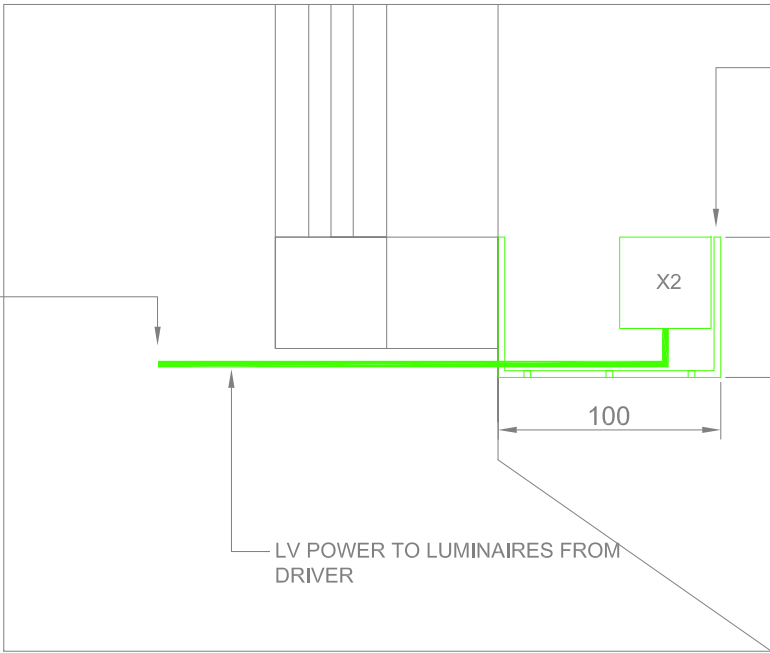
IP RATED REMOTE DRIVER BOX SIZE 130MM X 90MM X 50MM. 1NO DRIVER BOX PER 2NO SPOTLIGHTS. DRIVER BOXE TO BE LOCATED CENTRAL TO WINDOW AND POSITIONED AGAINST THE EXTERNAL FRAME TO MINIMISE VISUAL IMPACT ON THE STONE LEDGES LOOKING OUT INTERNALLY AND VIEWS FROM GROUND LEVEL EXTERNALLY



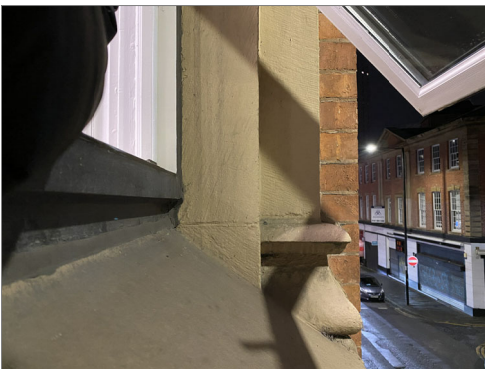
BASIC WIRING SCHEMATIC FOR EXTERNAL WINDOW REVEAL LIGHTING

DRIVER SIZE TO BE CONFIRMED FOR INTERIOR SOLUTION. 1NO DRIVER PER 2NO SPOTLIGHTS. DRIVER TO BE LOCATED WITHIN INTERIOR. HOUSED IN ACCESSIBLE POSITIONED LOCALLY TO WINDOW.

DRIVER TO BE LOCATED INTERNALLY. 1NO PSU PER 2NO LINEAR LED LIGHTS.



TYPE L2 FIXING DESIGN INTENT



LUMINAIRE TO BE HOUSED IN BESPOKE CHANNEL, CONCEALING DIRECT VIEW OF LUMINAIRE. CHANNEL TO BE RAL FINISHED TO MATCH WINDOW FRAMES, FIXING TO BE CONFIRMED. CHANNEL TO INCLUDE DRAIN HOLES.

NOTES

- DO NOT SCALE FROM THIS DRAWING
- ALL DIMENSIONS ARE STATED IN MILLIMETERS
- THIS DRAWING IS DESIGN INTENT ONLY, AND SHALL NOT BE USED FOR CONSTRUCTION PURPOSES
- THIS DRAWING SHALL BE READ IN COORDINATION WITH THE LUMINAIRE SCHEDULE
- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE LIGHTING SPECIFICATION DOCUMENT
- CONSTRUCTION DRAWINGS SHALL BE PROVIDED BY OTHERS
- COORDINATION OF THE M&E SERVICES ONSITE SHALL BE UNDERTAKEN BY THE MAIN CONTRACTOR
- THE MAIN CONTRACTOR SHALL ENSURE THE LIGHTING EQUIPMENT IS INSTALLED INLINE WITH NATIONAL REGULATORY GUIDANCE
- THE MAIN CONTRACTOR SHALL UNDERTAKE A FEASIBILITY STUDY TO ASSESS THE PROPOSED FITTING LOCATIONS, LUMINAIRE SIZES, FIXING DETAILS AND CABLING ROUTES PRIOR TO ORDERING THE LIGHTING EQUIPMENT. A REPORT SHALL BE ISSUED FROM THE MAIN CONTRACTOR CONFIRMING THE STUDY RESULTS AND RAISING ANY ISSUES THAT MIGHT ARISE FROM THE STUDY
- FINAL LUMINAIRE HEIGHTS FOR WALL MOUNTED FITTINGS AND PENDANTS FITTINGS SHALL BE AGREED BY THE ARCHITECT AND INTERIOR DESIGNER PRIOR TO INSTALLATION

REMOTE LED DRIVERS

THE MAIN CONTRACTOR SHALL ENSURE ALL REMOTE LED DRIVERS ARE CONCEALED FROM DIRECT VIEW IN ACCESSIBLE POSITIONS FOR MAINTENANCE PURPOSES.

LINEAR LED LIGHTING

LED POSITION WITHIN COFFERS TO BE AGREED ONSITE PRIOR TO FINAL INSTALLATION

THE MAIN CONTRACTOR SHALL CONFIRM FINAL LED LENGTHS FOR ALL LINEAR LED PRODUCTS WHICH SHALL COORDINATED WITH ARCHITECTURAL DETAILS AND JOINERY ELEMENTS

A	15.02.22	FOR COMMENT	LA
-	07.12.21	FOR COMMENT	LA
REV	DATE	ISSUE	-

Project	KINGS HOUSE, MANCHESTER		
Client	BRUNTWOOD WORKS		
Architect	EPR ARCHITECTS		
Drawing	NORTH ELEVATION EXTERNAL LIGHTING LAYOUT		
Drawing No.	201859-00-(63)3001	Scale: 1:100 @ A1	

Artin.
Creative Lighting Design

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A	15.02.22	FOR COMMENT	LA
-	07.12.21	FOR COMMENT	LA
REV	DATE	ISSUE	-

Project	KINGS HOUSE, MANCHESTER
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Client	BRUNTWOOD WORKS
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Architect	EPR ARCHITECTS
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Drawing	EAST AND WEST ELEVATION EXTERNAL LIGHTING LAYOUT
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Drawing No.	201859-00-(63)3002	Scale: 1:100 @ A1
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LUMINAIRE SCHEDULE

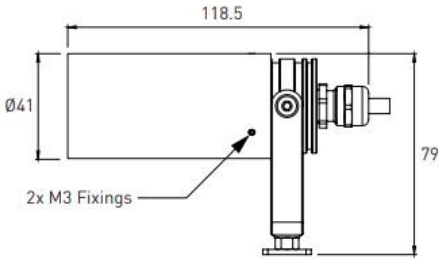
X1

Description	Micro LED surface mounted spotlight
Fixing Type	Surface Mounted
Finish	RAL TBC
Attachments / Spec	10 Degree Optic Honeycomb Louvre Full Tube Cowl – RAL finished to match
Colour Temperature	2700K
Colour Rendering Index	>90
Light Source	LED
Dimming Protocol	Trailing Edge (remote)
Wattage	3.3 w
Lumen Output	240 lm
Lumens per Watt	72 lm/w
IP Rating	67
Notes	Include for all drivers, connections and fixing details necessary for complete working installation
Manufacturer	Light Projects
Reference	LED Star 1
Contact	David Rich E: dr@lightprojects.co.uk T: 07791914268

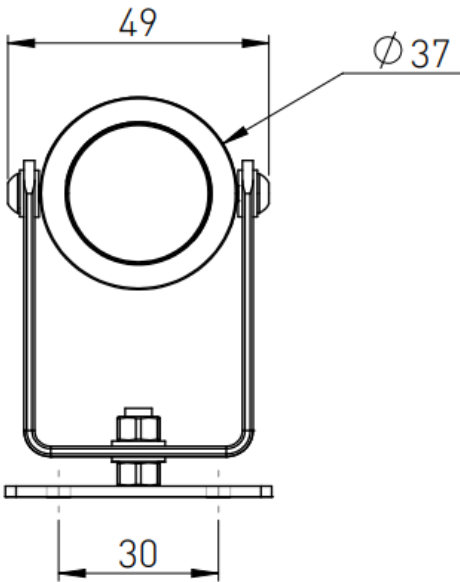
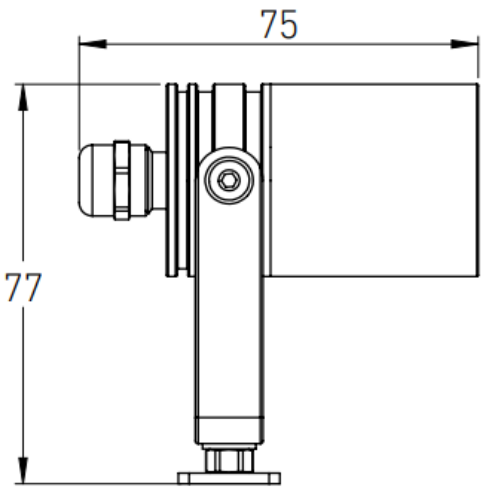
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RAL
TBC



Product Image

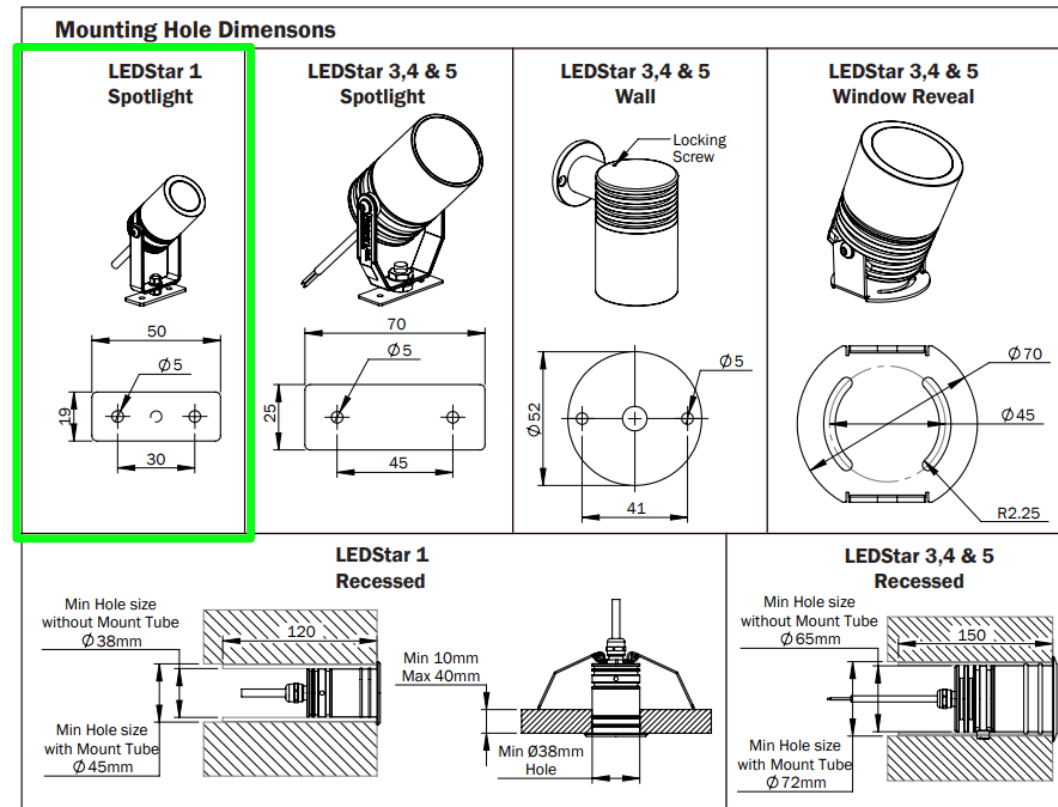


Product Dimensions

LEDStar 1,3,4 & 5 Installation Sheet 450xxxxx Issue Date: June 2018

Light Projects 

RAL
TBC



Installation Instructions

General

Disconnect mains supply before installation and maintenance. Select the required position for the luminaire observing all the dimensions. See luminaire product label for maximum drive current and forward voltage. Ensure driver output matches luminaire requirement. See driver install sheet for details on multiple luminaire loading.

Connect cable to LED driver observing polarity:- Red= +ve Black= -ve

Caution: LEDs are protected from damage by short term connections to inverted polarity, however prolonged connection with inverted polarity may cause the LED to over heat and may damage the driver.

The luminaire has a screw on front cap to allow for maintenance. Cap should not be removed except in a completely dry environment and only for the minimum time necessary for maintenance. Fixed cable variants are fitted with a permanently attached cable that is not user serviceable. If damaged, return to factory for repair.

Spotlight and Window Reveal

Fix mount bracket to mounting surface (fixings by others). Focus fitting and fully tighten stirrup base and side fixings.

Recessed

In solid materials, core drill hole to diameter and depth illustrated above. Ensure location is well drained so that luminaire is not immersed in water or with water trapped behind it. Feed cable through recessed hole leaving sufficient slack in cable coiled behind luminaire so it can be fully withdrawn for maintenance. In weak or fibrous materials use mounting tube to ensure the aperture is suitably reinforced to support the luminaire. Route cable to driver location, cable is not suitable for direct burial so used suitable conduit (by others) to provide mechanical protection.

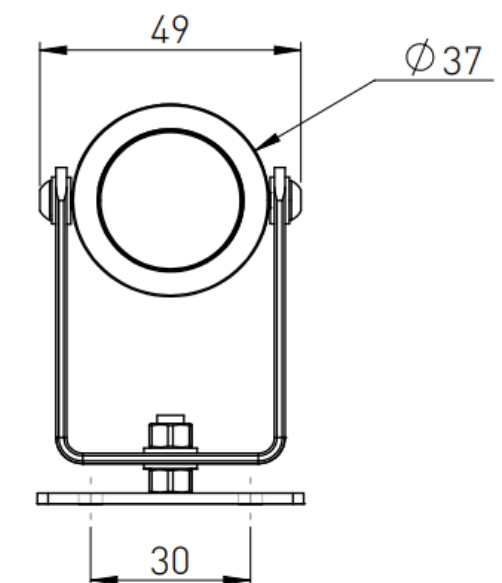
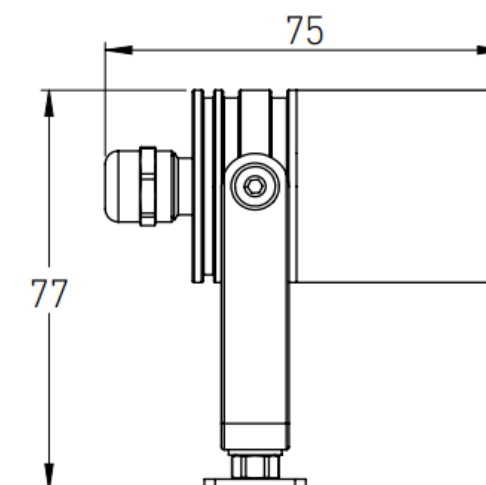
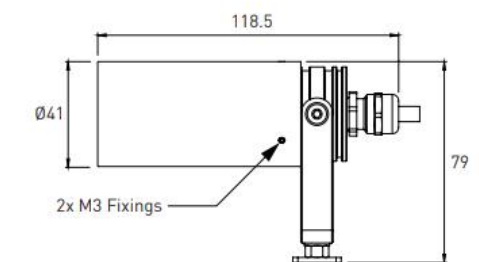
Tilt Beam Option: Rotate luminaire to orientate beam as required.

Wall

Prepare flat mounting surface with cable hole or suitable conduit if necessary (by others). Ensure mounting surface can support the weight of the luminaire and its fixings. Loosen locking grub screw to release mounting post. Feed luminaire cable through prepared cable hole, fix mounting post over cable hole using suitable screws (by others). Draw cable completely through mount post and re-attach luminaire housing taking care not to trap cable. Orientate luminaire as required taking care not to put multiple twists into the cable. Tighten locking grub screw to secure housing.

Maintenance

Regular cleaning will ensure the optical performance of the luminaire is maintained. Do not use abrasives or solvents, just damp soft cloth.

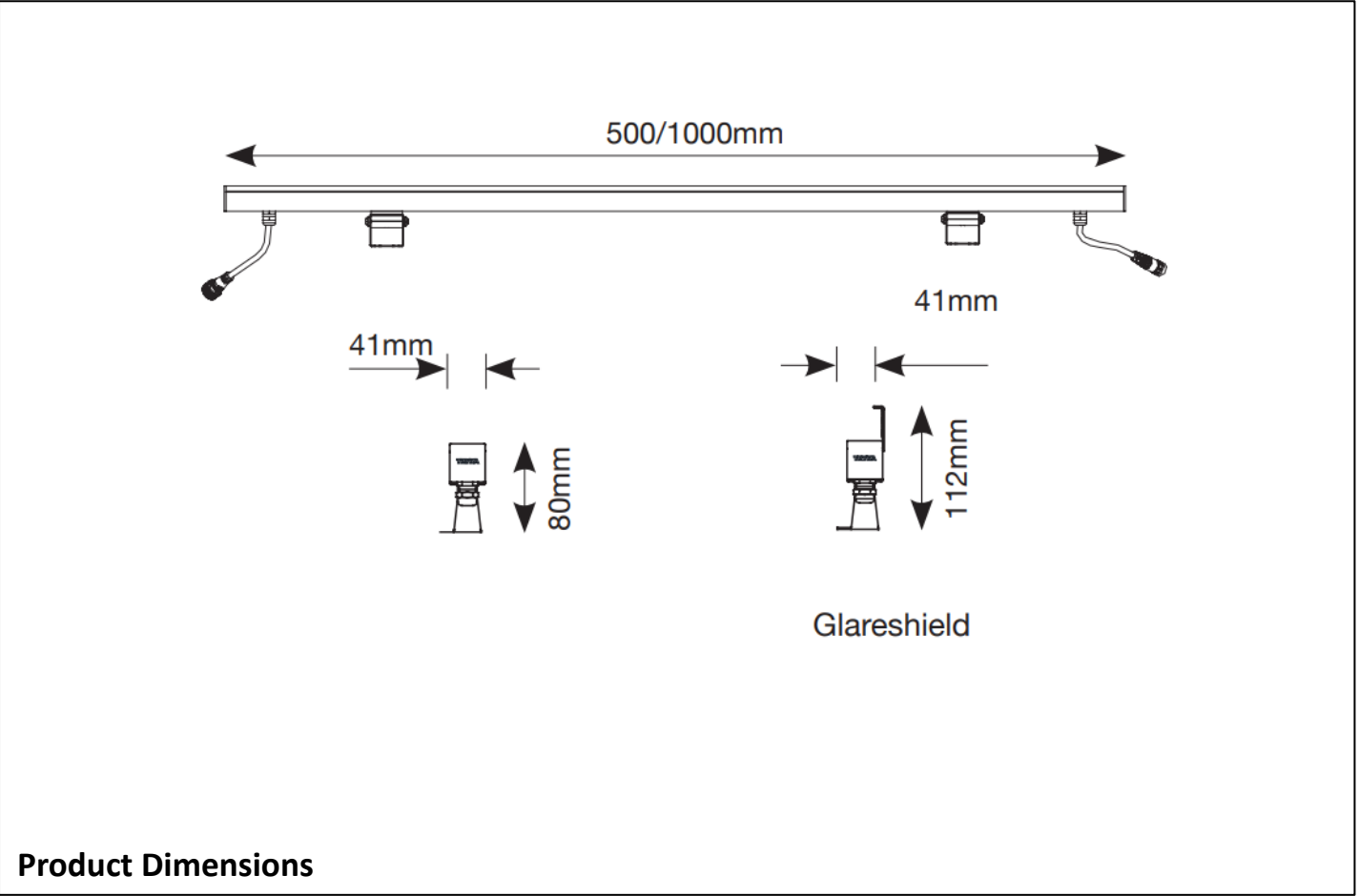
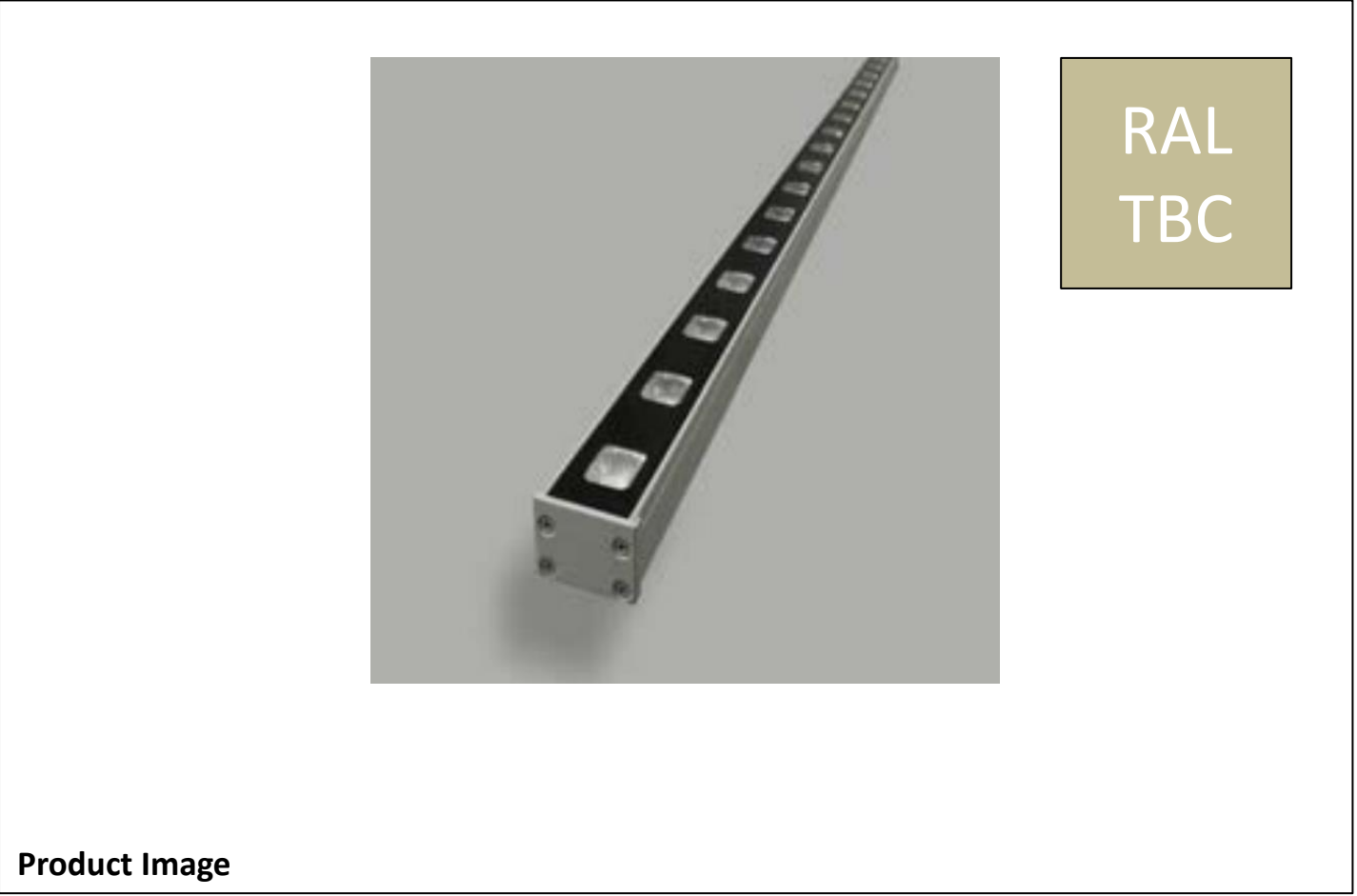


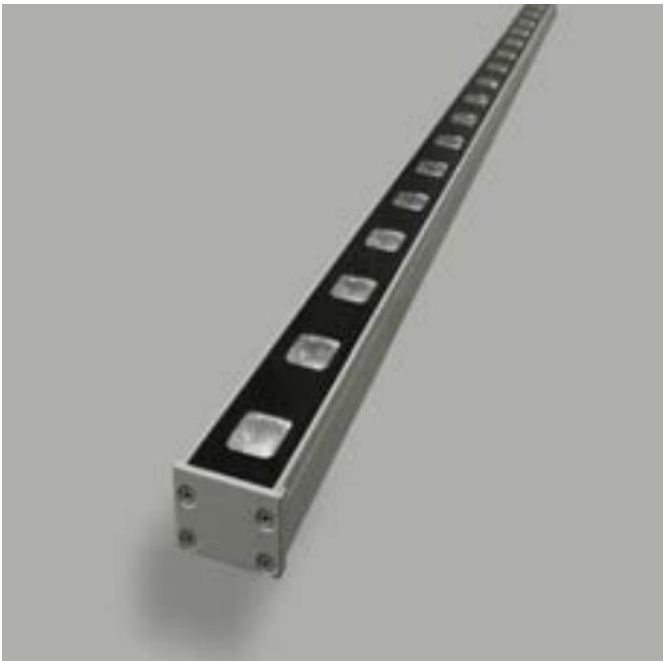
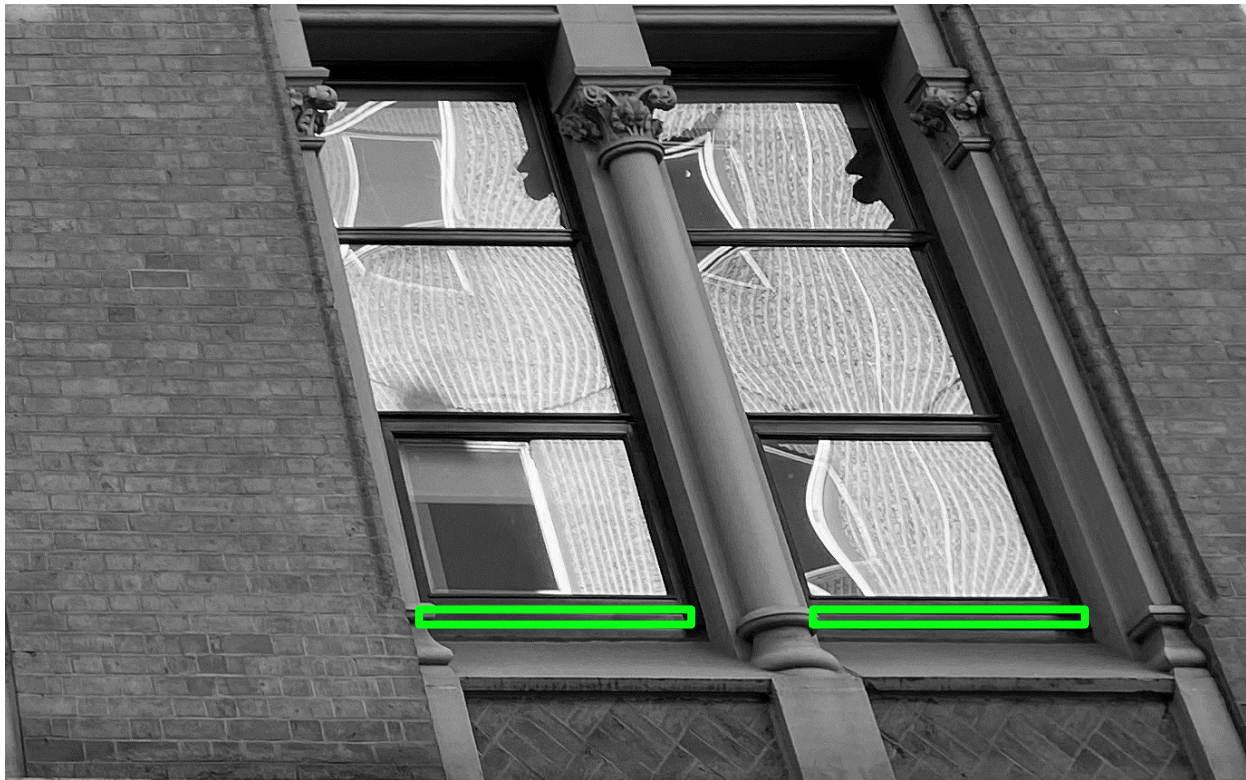
Fixing Details

X2

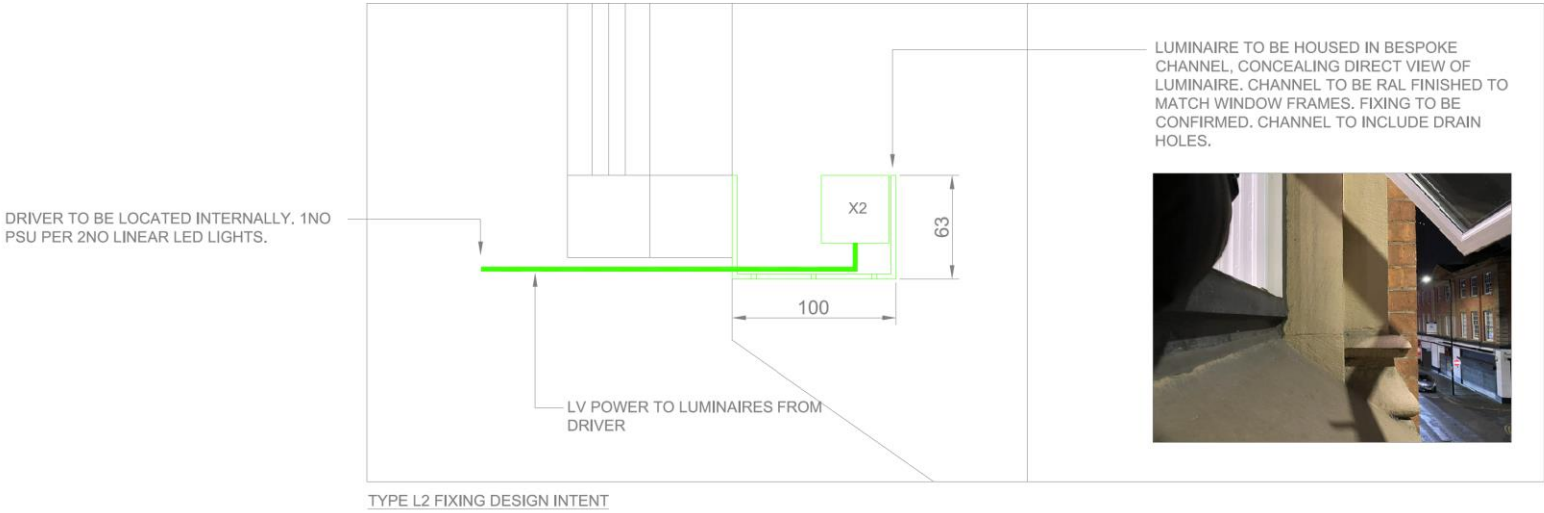
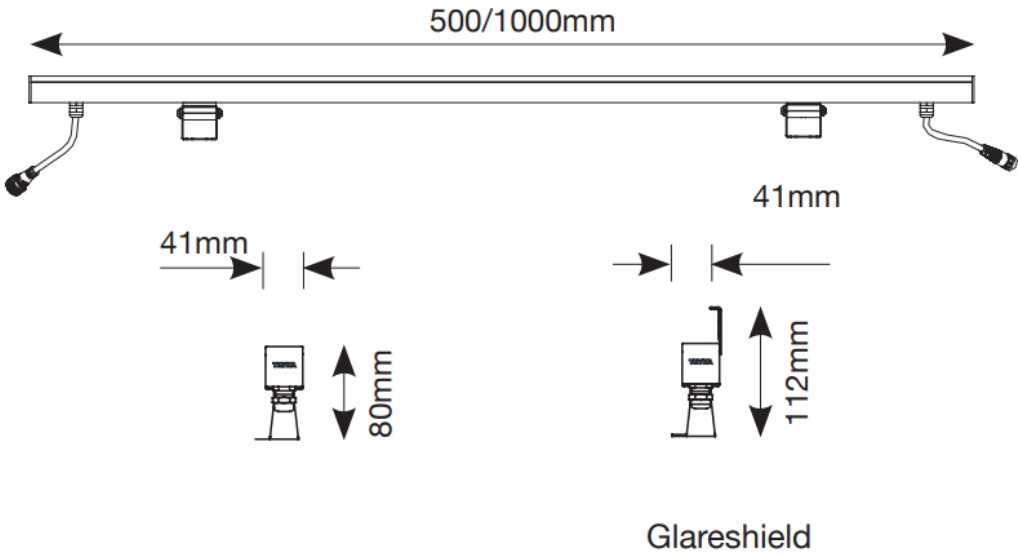
Description	900mm Linear LED grazing with bespoke housing detail
Fixing Type	Surface Mounted
Finish	RAL TBC
Attachments / Spec	12 x 55 degree beam Bespoke housing / shield – see lighting drawing for design intent
Colour Temperature	2700K
Colour Rendering Index	>80
Light Source	LED
Dimming Protocol	Trailing Edge (Remote)
Wattage	20w
Lumen Output	TBC lm
Lumens per Watt	TBC lm/w
IP Rating	67
Notes	Include for all drivers, connections and fixing details necessary for complete working installation
Manufacturer	Tryka
Reference	Stripline 41 – Bespoke Housing
Contact	Colin Gawne E: Colin.Gawne@tryka.com T: 07890110951

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RAL
TBC



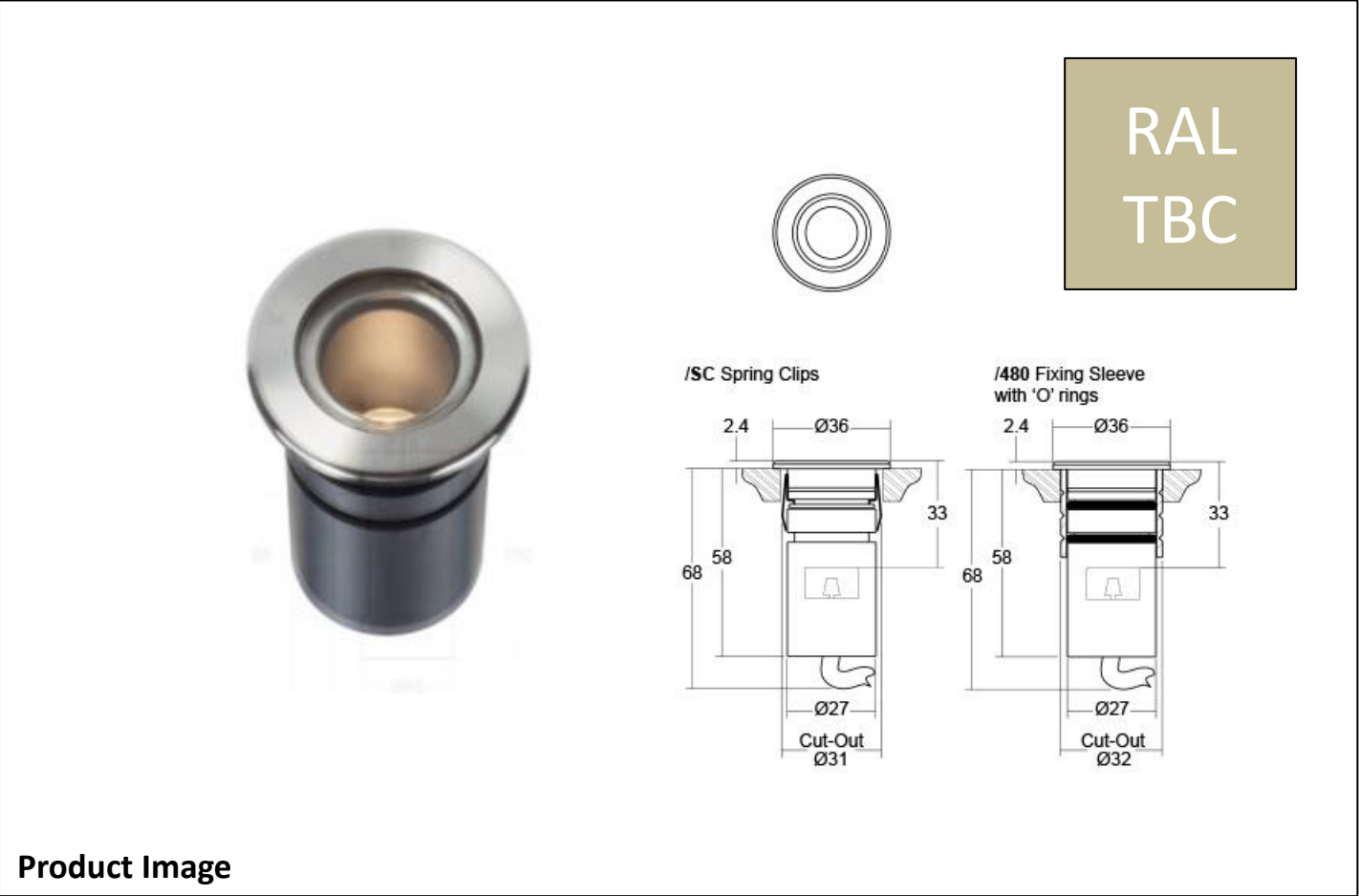
Design intent for bespoke channel housing. Channel allows for housing luminaire and external driver, plus concealed cabling. The channel would be surface fixing to the window frame and would be RAL finished to match the frame.

Fixing Details

X3

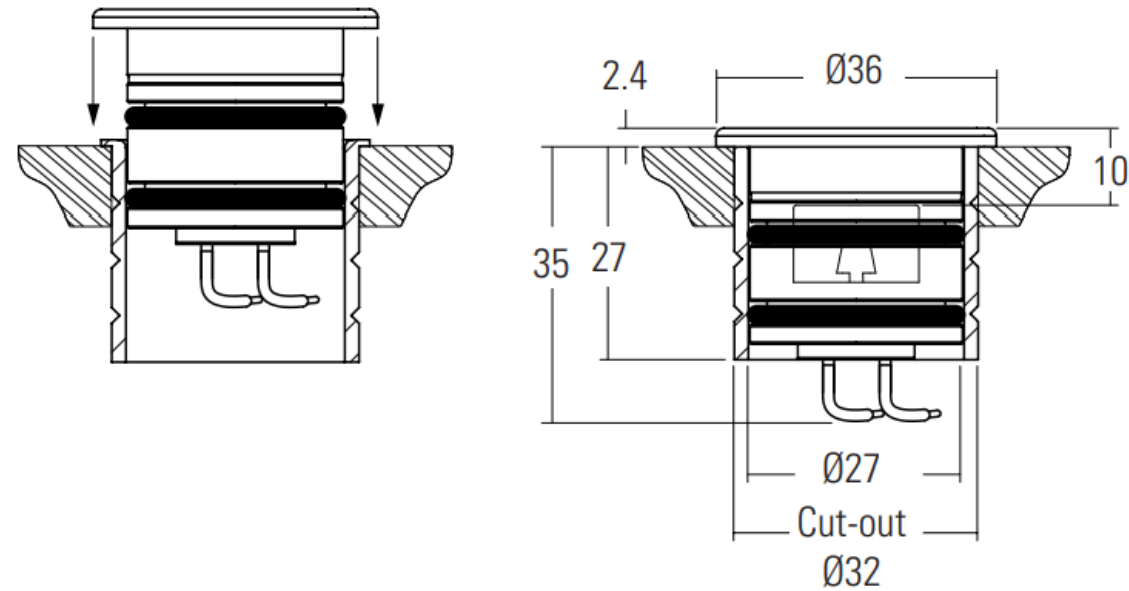
Description	Micro inground LED uplight
Fixing Type	Ground Recessed
Finish	RAL TBC
Attachments / Spec	10 Degree beam Floor Recess Fixing Sleeve
Colour Temperature	2700K
Colour Rendering Index	>90
Light Source	LED
Dimming Protocol	Trailing Edge (remote)
Wattage	2.4 w
Lumen Output	137 lm
Lumens per Watt	57 lm/w
IP Rating	68
Notes	Include for all drivers, connections and fixing details necessary for complete working installation
Manufacturer	Light Graphix
Reference	LD43DR + Fixing Sleeve
Contact	Light Graphix E: light@lightgraphix.co.uk M: 01322527629

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/480 O-rings and sleeve

Robust, watertight method of fixing for in-ground applications.



RAL
TBC

The inground uplighters are proposed to ground recessed into the existing steps of the new entrance area. A bore hole would be required for each uplight, which would then be fixed utilising the O-ring sleeve. Power would be fed direct from below via the basement space. Further exploratory works for cable routing would be required at strip out stage to assess feasibility of proposed positions and cable routes.



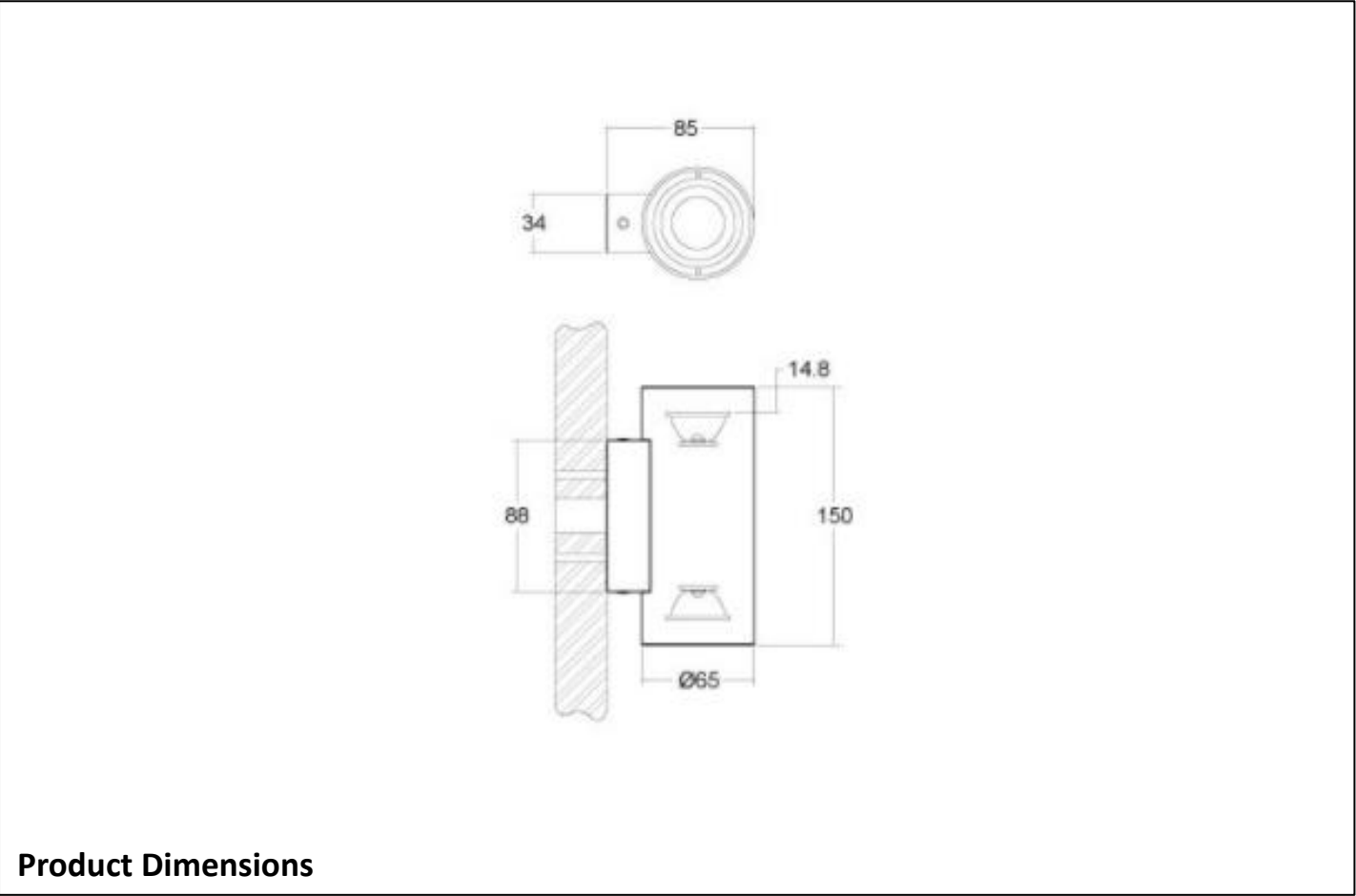
X4

Description	Surface mounted direct / indirect spotlight
Fixing Type	Surface Mounted
Finish	RAL TBC
Attachments / Spec	10 Degree beam Honeycomb Louvre
Colour Temperature	2700K
Colour Rendering Index	>90
Light Source	LED
Dimming Protocol	Trailing Edge (remote)
Wattage	12w
Lumen Output	948 lm
Lumens per Watt	68 lm/w
IP Rating	67
Notes	Include for all drivers, connections and fixing details necessary for complete working installation
Manufacturer	Light Graphix
Reference	LD10236
Contact	Light Graphix E: light@lightgraphix.co.uk M: 01322527629

Artin.



Product Image



Product Dimensions

WARNING: DO NOT USE NORMAL LOW VOLTAGE TRANSFORMERS WITH LEDS.
All LED fittings are tested before dispatch. It is not necessary to check them on site. Do not power up until fittings are wired correctly.

INSTRUCTION LEAFLET



LD10236-E2

LED Up - Down Wall Light

This product should be installed by a qualified electrician in accordance with all current, local legislation. For the UK, the current edition of the IEE Wiring Regulations and European Standard IEC 60364.

SPECIFICATION

LED wall luminaires are class III  for Safety Extra Low Voltage supply  **350mA** or **500mA** constant current supply.

Suitable for mounting on normally flammable surfaces. 

Lamp: 2x **E2 Light Engine**.

This fitting is **IP67** rated.

Lumen Maintenance: 50,000 hours L70 at Max Ambient of 35°C.

LD10236-E2 is available in various power output options	
Product & LED output code	Power Output
LD10236-E2 - 350	350mA 10W
LD10236-E2 - 500	500mA 14W

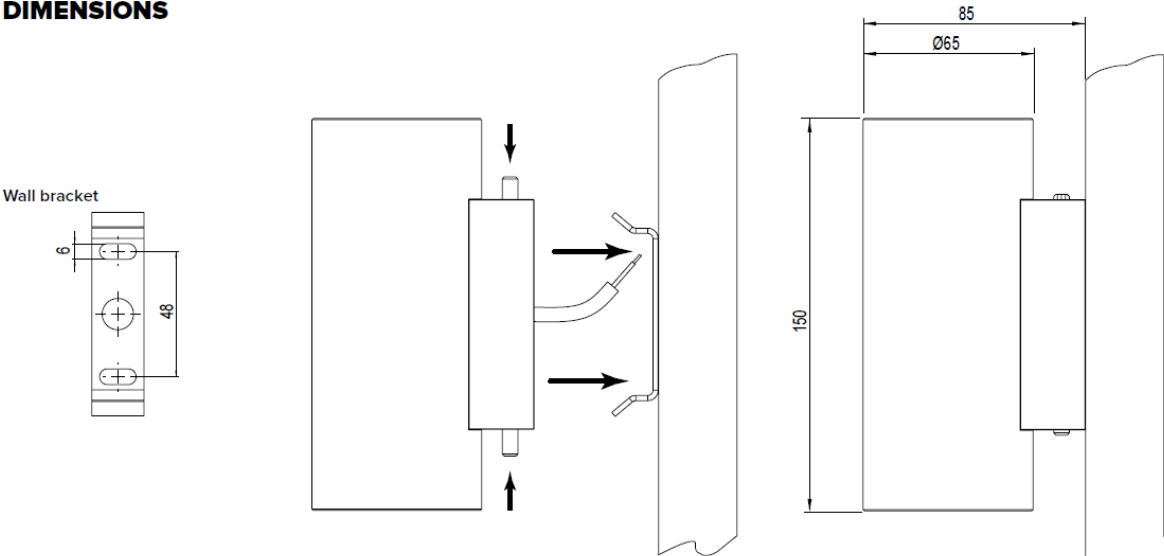
INSTALLATION

1. Locate the centre hole of the wall bracket over the cable entry hole/ conduit and fix to mounting surface using two screws 48mm apart.
2. Before tightening screws check that bracket is vertical.
3. Thread the luminaire cable through the bracket and into the conduit to the driver location. Use a draw wire if needed.
4. Wire luminaire to specified driver.

NOTE: Connections in wet environments. Make IP68 connection to stop water travelling up the cables into the fittings! Refer to IP connection sheet for further details.

5. With the grub screws almost removed, locate the box section of the luminaire over the wall bracket and tighten up grub screws with the supplied Allen key.

DIMENSIONS



WIRING

Do not power up until fitting is wired correctly! Constant current LEDs must be wired in series, polarity is critical! Please refer to specified driver sheet for details on the minimum and maximum number of LEDs per circuit.

SEE CONSTANT CURRENT WIRING SHEET FOR IN SERIES WIRING DIAGRAM

Single Colour LED		
Colour of Cable	Red	Black
Polarity	+	-

IMPORTANT

Make sure that all cables and connections are securely connected before switching on the power. Do not switch on the power source prior to making these connections as this will result in the LEDs being overvolted, which can lead to failure of the LEDs and/or the driver. If the LEDs do not work upon power up, turn off the power source immediately and check the polarity of the wiring.

MAINTENANCE

CABLE: The external flexible cable shall only be replaced by the manufacturer if the cable is damaged.
LAMPS: The light source contained in this luminaire shall only be replaced by the manufacturer.
Please clean with soft damp cloth and avoid harsh cleaning chemicals.
O-ring replacement part number: Bezel O-ring 17.0006

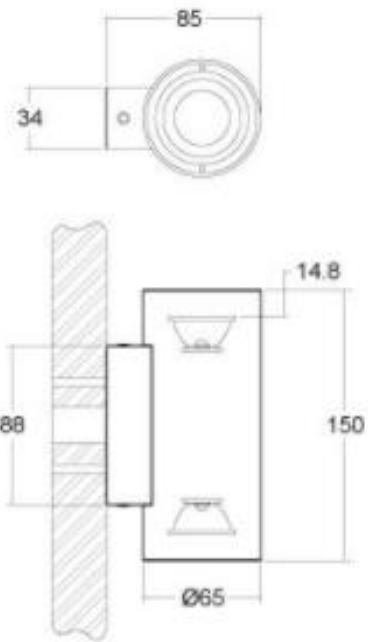
This leaflet should be issued and retained by the end user.

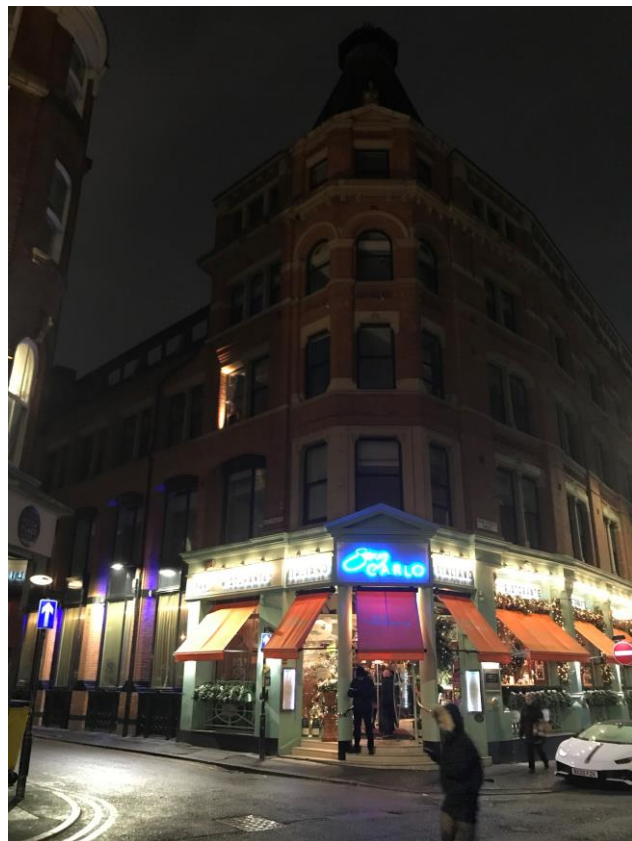
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LightGraphix reserves the right to change specification without notice

Product Dimensions





Lighting Mock Up Tests



Lighting Mock Up Tests



Lighting Mock Up Tests

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