



Gorton Community Hub
TECHNICAL SUBMISSION
GCH-QUA-XX-XX-TS-E-0007 – (C01)
External Lighting
10th February 2022

Prepared for:

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Quartzelec have assessed the requirements of the project and propose the following for your comments / approval:-

We wish to use **DW WINDSOR** for the External Lighting.

Please find attached Technical information for the above.

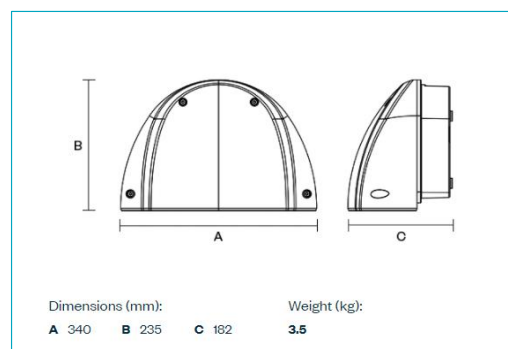
We trust the above meets with your approval and await your confirmation.

Reference	Make	Item	Attachments
External Lighting	DW Windsor	External Lighting	3 page PDF document

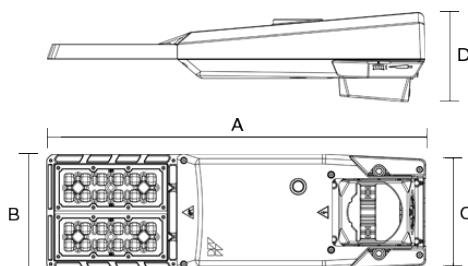
Comments required by 18th February 2022

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Product Name	Kirium Wall
Mounting Options	Wall mount (option to mount over BESA box available)
Output	up to 5,500lm
Light Source	LED
Colour Temp	2700K / 3000K / 4000K / 4000K (SUNLIKE) >70 (3000K / 4000K)
CRI	>80 (2700K) >95 (4000K SUNLIKE)
Distribution	Narrow (Diamond+ A1) / Medium (Diamond+ A5) / Wide (Diamond+ C2)
Number of LEDs	16
Power	12-37W
Luminaire Efficacy (max)	up to 122lm/W
Electrical Class	Class I (II on request)
Operating Voltage	220-240V
Driver	DALI / 1-10V (fully programmable with Constant Light Output enabled)
Drive Current Range	300 to 700mA
Lifetime	100,000 hours (L80 B10)
Operating Temperature	-25°C to +40°C
IP Rating	IP66
IK Rating	IK10
Colour Finish	Mid Grey RAL 7046 / Light Grey RAL 7035 / Black RAL 9005 / White RAL 9016 / Aluminium 9006 / Metallic Grey 9007 / Metallic Dark Grey DB703 / Corten Brown (other RAL colours on request)
Housing Material	High pressure die-cast LM6 aluminium
Finish	Polyester powder coat
Glazing Material	Clear / Frosted polycarbonate
Weight	3.5kg
Certifications	CE
Control Options	Photocell / Part night switching / Pre-programmed dimming / Integral CMS / Presence detector / Integral 3 hour emergency



Additional Information



Dimensions (mm):

A 588 **B** 180 **C** 180
D 135

Weight (kg): Windage (m²):

4.6 (standard) **0.039 (CxS =**
4.1 (hybrid) **0.025)**

Sample Specification Text

Kirium Eco Midi street luminaire with 24 LED light engine. Constant light output enabled fully programmable DALI driver operating up to 1050mA. 3,000K colour temperature with Medium Road high transmission PMMA optic and 0% ULOR. Die-cast aluminium body in mid grey RAL 7046 with a polyester powder coat finish. Universal mounting block allowing switching between post top (Ø60-76mm) and side entry (Ø34-60mm) on-site. IP66 and IK08 protection. 100,000 hours (L90) lifetime. For -20 °C to +25 °C ambient operating temperatures (higher ambient temperatures available). Class I. Pre-wired.

Performance

Output (luminaire flux)	11,660lm (max)
Power	86W (max)
Efficacy	185lm/W (max)
Number of LEDs	24
Colour Temperatures	2,200K 2,700K 3,000K 4,000K
Colour Rendering Index (CRI)	> 70 (>80 on request)
Distributions	Narrow Road Medium Road Wide Road Traffic Route Area (Symmetric / Asymmetric) Pedestrian Crossing
Certifications	UKCA, CE, ENEC

Electrical

Driver Options	DALI (fully programmable with Constant Light Output enabled)
Drive Current Range	250mA to 1050mA
Operating Voltage	220-240V
Electrical Class	Class I / Class II
Operating Temperature Limit	-20 °C to +25 °C (please contact us for lifetime information at higher ambient temperatures)
Rated Lifetime	100,000 hours (L90)

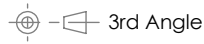
Mechanical

Mounting Options	Post Top Ø60mm-76mm Side Entry Ø34mm-60mm (Interchangeable via adaptable mounting block)
Tilt Adjustment	Post top: -5 ° to +15 ° (5 ° increments) Side entry: -15 ° to +10 ° (5 ° increments)
Glazing	PMMA (polycarbonate on request)
Housing	Standard: Die-cast aluminium Hybrid: LM6 die-cast aluminium upper and UV-stabilised polypropylene polymer lower
Colours	Mid Grey RAL 7046 Light Grey RAL 7035 Black RAL 9005 (Other RAL colours on request)
Finish	Polyester powder coat
IP Rating	IP66
IK Rating	IK08
Weight	4.6kg (standard) 4.1kg (hybrid)

Controls

Control Options	Miniature photocell NEMA photocell Part night switching Pre-programmed dimming Integral CMS 3, 5 or 7 pin NEMA socket 4 pin Zhaga Book 18 socket
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Technical Information



Design

BSEN40, PD6547: 2004+A1: 2009 (No sign)

Load class B

Deflection class 3

Head load See Table

Finish

Galvanised to BSEN 1461:2009

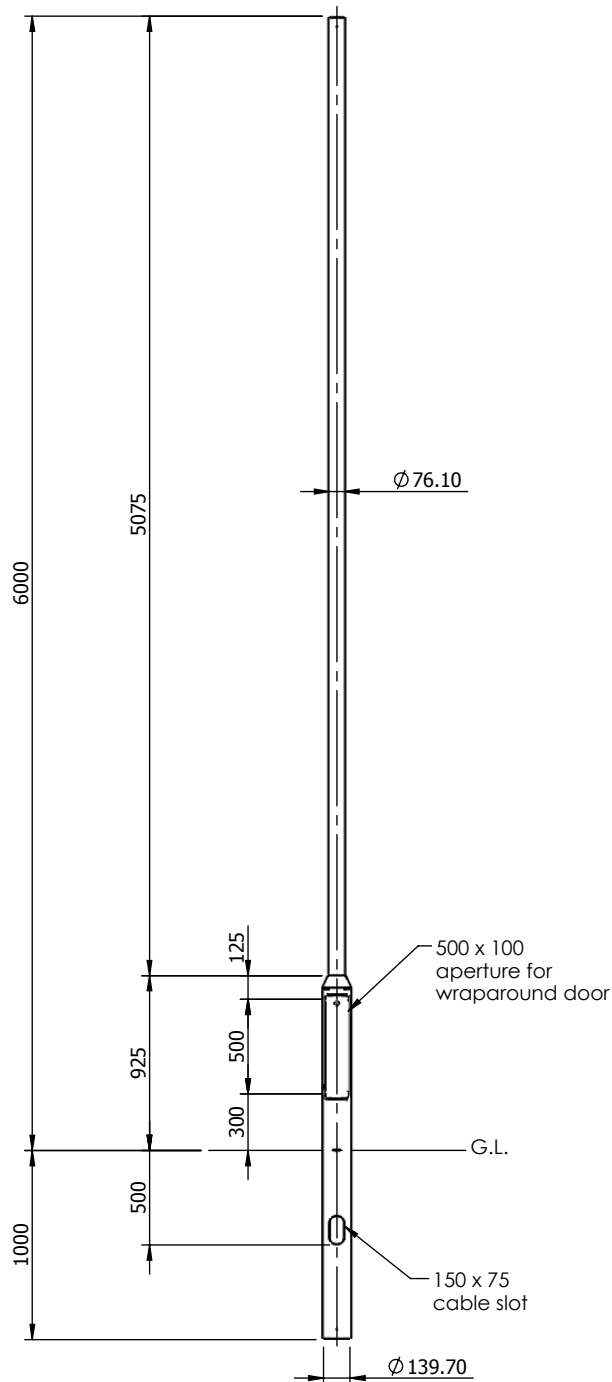
Welding

In accordance with BSEN1011

Procedures to BSEN ISO 15614-1:2004

Welders qualified to BSEN 287-1:2011

* Maximum design head load based on wind loading region with orientation of bracket/ luminaire(s) being on same plane as door



Maximum Loading including Bracket		
Wind Loading Region	Terrain Category	Weight/Area
Extra Light	II	55kg/0.48m ²
	III	60kg/0.63m ²
Light	II	40kg/0.42m ²
	III	60kg/0.53m ²
Medium	II	38kg/0.38m ²
	III	50kg/0.49m ²
Heavy	II	35kg/0.34m ²
	III	45kg/0.44m ²
Extra Heavy	II	30kg/0.25m ²
	III	34kg/0.33m ²

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BEI | lighting
lighting from the ground up

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Notes

All dimensions in millimetres unless stated otherwise.

When Multiple views are shown 3rd Angle Projection is assumed.

Revisions		
Rev.	Description	Date
1	Loading Table Added	21/11/13

Title

6 Metre Tubular Post Top Column

002575

Drg No. 28347-1

Scale:1:40

Sheet 1 of 1

Drawn By: MJB

Chk'd: MB

Ref. 6M01A

Contract:

Customer: BEI

Date: 21/11/2013