VAUGHAN

VNW00002

Equipment:	Ref:	Date:
External lighting	VAR-VES-XX-XX-TS-E-0015 REV C01	05.03.25

Drawing Ref:	Schedule Ref:
VAR-VES-ZZ-00-DR-E-9600 C02	NA

The Information Enclosed Within This Technical Submission Is Issued for:

Tender	Information	Comment	Procurement	Construction
☐	☐	☐	☑	☑

Issued to (where applicable):

Main Contractor	Client	M&E Consultant	O&M Technical Author	Architect.....	Other.....
☑	☐	☑	☐	☑	☐

Information provided encompasses the following elements (where applicable)

Building Work Requirements	Drainage Requirements	Electrical Requirements	Mechanical Requirements	BMS Requirements	Asset Register / Maintenance Required
☑	☐	☑	☑	☑	☐

Sample	Install Info	Co-ordination Info	O&M Info	Acoustic Info	Other BCO/Fire
☐	☑	☑	☑	☐	☐

Technical Submission:

Introduction:

Technical submission for the RDD change request for Nurse call system

Please provide your comments on the following proposals:

Confirm acceptance the attached document

Documents 'Enclosed':

Name

- 6MO1A 28347-1
- ASULED2CW Data Sheet
- AWOLFBLKSM3
- DPT2-300-42
- RCM9040AS04
- Varley St Externals - 3D's
- Varley St Externals - Reduced Columns
- Varley St Externals cw MUGA Rev 2
- Varley street externals 3D PDF
- Viva Pro Data Sheet

Compliance/VE statement(s):

The equipment proposed above is compliant with the requirements of the specification.

Notes:

1. Please be advised that in the absence of a response by the 'due date' stated below, it is our intention to proceed with the ordering/installation of the materials/equipment/systems in accordance with the enclosed technical details/quotation(s)/drawings/catalogue pages/sample(s).

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2. We believe that we have provided sufficient information for you to fully appraise our proposal(s), however, should you require anything further or would like to meet to discuss/review the enclosed details then please contact us.

Response required by:	19/03/2025	**Raised By:**	Ben Cooke

Response: (Please Feel Free To Mark Up Drawings With Any Comments)

A) No Comments	B) Minor Comments	C) Major Comments	D) Rejected
☐	☐	☑	☐

Response Date:		**Completed By:**		**Signed:**	

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Technical Information

3rd Angle

Design

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

Load class B

Deflection class 3

Head load See Table

Finish

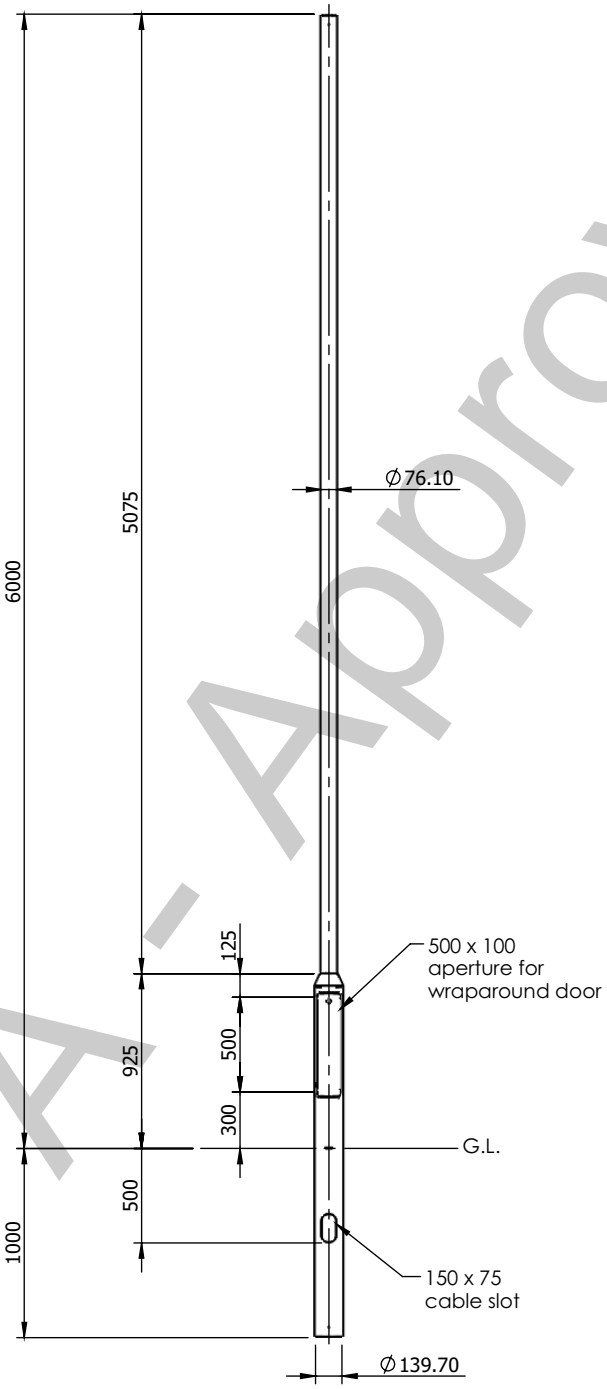
Galvanised to BSEN 1461:2009

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 Catagory	Weight/Area
Extra Light	II	55kg/0.48m²
	III	60kg/0.63m²
Light	II	40kg/0.42m²
	III	60kg/0.53m²
Medium	II	38kg/0.38m²
	III	50kg/0.49m²
Heavy	II	35kg/0.34m²
	III	45kg/0.44m²
Extra Heavy	II	30kg/0.25m²
	III	34kg/0.33m²



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BEI lighting
lighting from the ground up

Wyndham Way, Brackla Industrial Estate, Bridgend,
Mid Glamorgan, CF31 2AN

Tel.01656 645414

Fax.01656 669231 / 01656 766395

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

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ASULED/2/CW

Asuri LED Post Top - 63W Cool White



Features

Modern die-cast aluminium post top lantern

Electrostatic paint finish for enhanced corrosion resistance

IK10 Rated

Ideal for large carparks and large open areas

Suitable for residential and commercial use

Adjustable spigot bracket 50-76mm supplied as standard

LED lifespan L70 50,000 hours

Non-dimmable

Status A - Approved

General Information

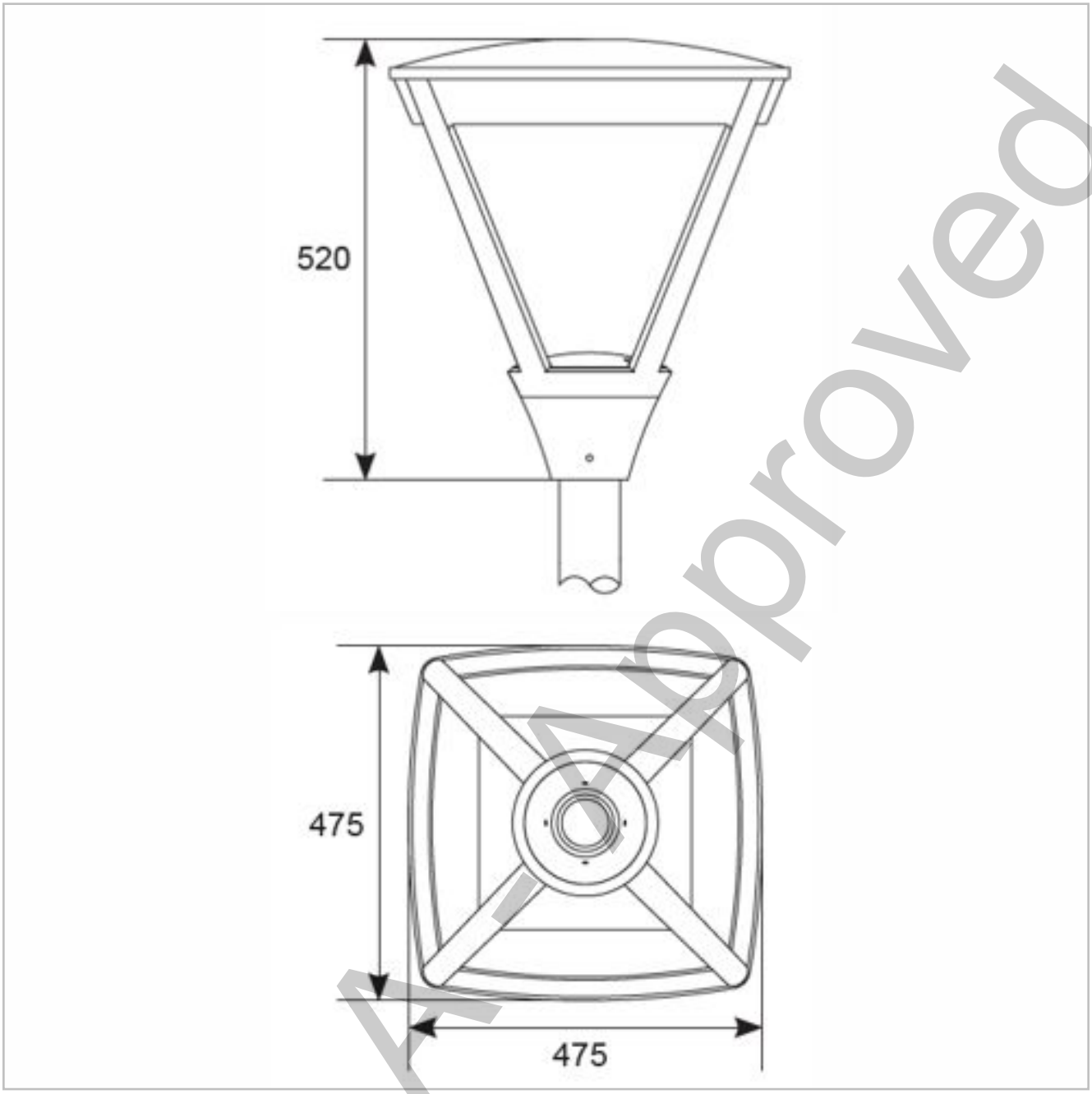
Lamp Type	LED
Colour / Finish	Black
IP Rating	IP66
Class Protection	1
Internal / External	External
Surface / Recessed / Suspended	Surface
Warranty (Years)	5
CE Mark	Yes
Length (mm)	475
Width (mm)	475
Height (mm)	520

Technical Information

Wattage	63W
Lumens Delivered	5160lm
Lm/W	82 Lm/W
CRI	70
CCT	4000K
Input	100/240V
Hertz	50Hz
Operating Temp	-40 to 55°C

Datasheet generated from http://www.electrika.com last updated Thursday, September 20, 2018 1:32:07 PM

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Category	Bulkheads
Application	Ancillary, Commercial, Healthcare, Hospitality, Industrial, Outdoor, Retail
Specification	Performance

Wolf

Wolf CCT Multi Wattage Wallpack Self-Test Emergency Black

Code: AWOLF/BLK/SM3







PRODUCT FEATURES

- Modern, robust die-cast aluminium low glare wall pack suitable for commercial and industrial applications
- Reduced light pollution with 0% upward light distribution, helps with compliance with Dark Skies recommendations, helps with compliance with Dark Skies recommendations
- High efficiency up to 120 Lm/W
- Multiple conduit entry and BESA fixing points
- Advanced lens technology offers wide distribution for optimum spacing and uniformity; whilst ensuring minimal uplight and light pollution
- Power selectable; offering a choice of 3 outputs, in one luminaire
- Electrostatic paint finish for enhanced corrosion resistance
- 20mm East and West side entry for surface conduit and through-wire

GENERAL INFORMATION	
Wattage	19W / 21W / 30W
Lumens Delivered	2200lm / 2400lm / 3600lm (4000K)
Lm/W	120lm/W (4000K)
Beam Angle	70/140
CRI	82
CCT	3000/4000K
Input	220-240V
Operating Temp	0°C - 40°C
SDCM	5
Product Weight without Packaging	3.288 kg

TECHNICAL INFORMATION	
Light Source	LED
Colour / Finish	Black
IP Rating	IP65
Class Protection	1
Internal / External	External
Surface / Recessed / Suspended	Pole, Wall
Lumen Depreciation	L80 84,000h
Warranty (Years)	5
CE Mark	Yes
Height	217 mm
Emergency Output Duration	3 Hr

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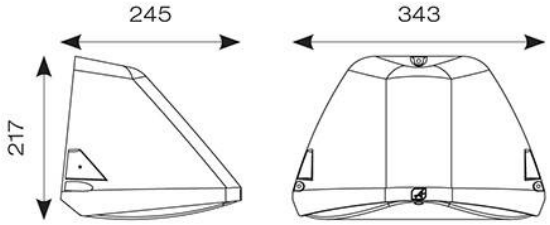
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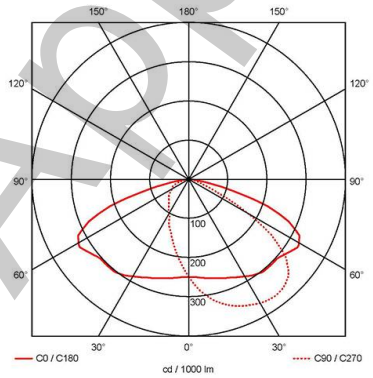


Category	Bulkheads
Application	Ancillary, Commercial, Healthcare, Hospitality, Industrial, Outdoor, Retail
Specification	Performance

Wolf

Wolf CCT Multi Wattage Wallpack Self-Test Emergency Black
Code: AWOLF/BLK/SM3



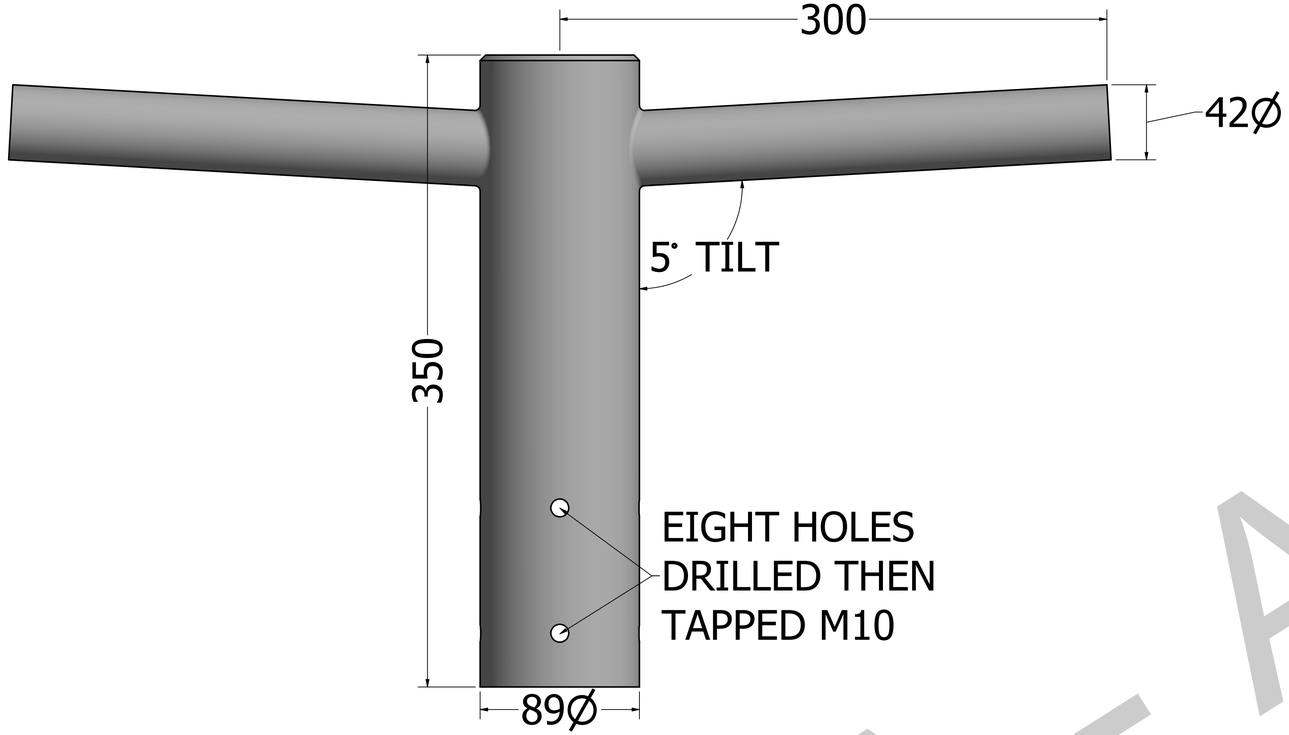


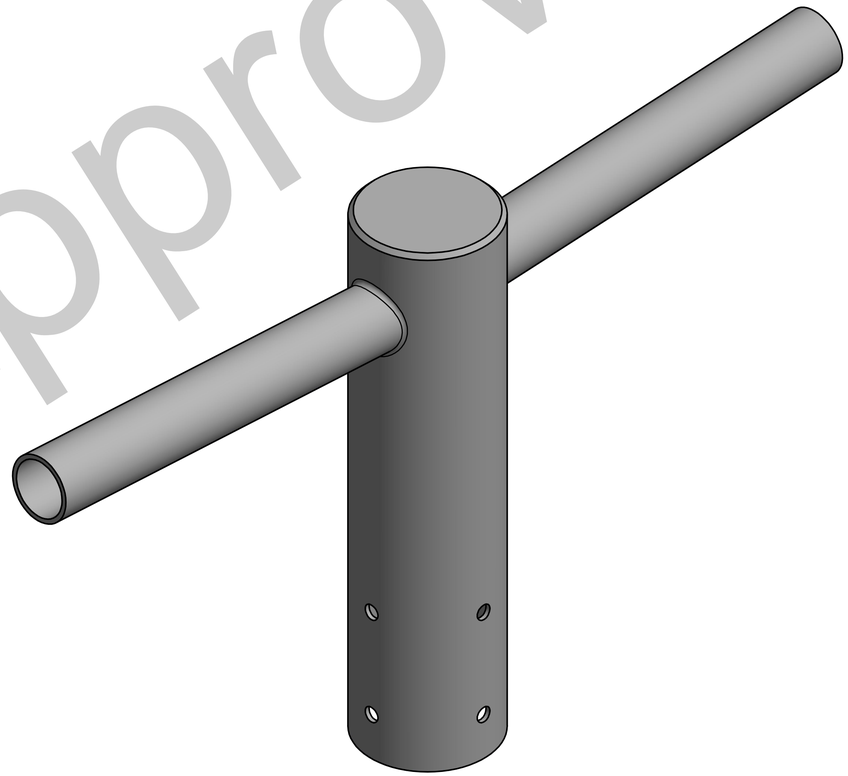
ACCESSORIES	
AWOLFB/S/BLK/1	Wolf Post Top Bracket Single Black
AWOLFB/S/SG/1	Wolf Post Top Bracket Single Silver Grey
AWOLFB/D/BLK/1	Wolf Post Top Bracket Double Black
AWOLFB/D/SG/1	Wolf Post Top Bracket Double Silver Grey

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ACCEPTED BY _____

DATE ACCEPTED _____

GENERAL NOTES:
ALL DIMENSIONS IN MILIMETERS
ALL BURRS AND SHARP EDGES TO BE REMOVED

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BEI LIGHTING
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WEB: www.beilighting.com

BEI | lighting
lighting from the ground up

DRAWN	Neil Carter	02/10/2019
CHECKED		
QA		
MFG		
APPROVED		

ANY BESPOKE BRACKETS ARE MADE TO ORDER AND AS SUCH ARE NON RETURNABLE

TITLE
TWIN GALVANISED SIDE ENTRY LANTERN BRACKET 300MM PROJECTION 42MM TUBE 5DEG TILT TO SUIT 76MM POST TOP COLUMNS OR SPIGOTS

DWG NO
DPT2-300-42

SCALE 0.6 SHEET 1 OF 1

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ROBUS®

INDUSTRIAL

COSMIC ASYMMETRIC LED FLOOD LIGHT

30W,50W,100W,130W,170W, 300W, IP65



PRODUCT INFORMATION DOCUMENT

FEATURES

- 45° x 150° asymmetric beam angle providing optimized light distribution for area lighting
- Equipped with self-regulating valve to prevent condensation
- Die cast aluminium housing providing optimal heat dissipation and high resistance to weather conditions
- Pre-drilled mounting bracket with 180° adjustable angle

CONSTRUCTION

- Powder-coated die cast aluminium housing
- Tempered glass diffuser
- Steel bracket and stainless steel screws
- Prewired with 1m of rubber flex



Product Code:	RCM3030AS-04 RCM3040AS-04	RCM5030AS-04 RCM5040AS-04	RCM9030AS-04 RCM9040AS-04	RCM12530AS-04 RCM12540AS-04	RCM17030AS-04 RCM17030AS-04	RCM29030AS-04 RCM29040AS-04
Comparable to:	200W Halogen	350W Halogen	800W Halogen	1200W Halogen	2000W Halogen	3000W Halogen
Total Power (W):	31.7/31.5	52.1/51.6	88.6/88.8	127.5/130.0	166.9/166.6	288.3/289.9
Power Factor:	0.95	0.95	0.95	0.95	0.95	0.95
Total Light Output (lm):	3200/3640	5290/5740	10420/10960	16140/17370	20520/21310	36810/39200
Total Emergency Light Output (lm):	NA	NA	NA	NA	NA	NA
Efficacy (lm/cctW):	101/116	102/111	118/123	127/134	123/128	128/135
Lux at 1m (lux):	1220/1420	1900/2030	3670/3750	5430/5960	6940/7240	13400/14620
Emergency Lux at 1m (lux):	NA	NA	NA	NA	NA	NA
CCT (K):	3000/4000	3000/4000	3000/4000	3000/4000	3000/4000	3000/4000
CRI:	80	80	80	80	80	80
IP:	65	65	65	65	65	65
Operation Temperature (°C):	-20 ≤ Ta ≤ +40	-20 ≤ Ta ≤ +40	-20 ≤ Ta ≤ +40	-20 ≤ Ta ≤ +40	-20 ≤ Ta ≤ +40	-20 ≤ Ta ≤ +40
Inrush Current:	0.6A/0.011us	15A/150us	0.7A/0.1us	1.4A/0.1us	20A/ 150us	0.94A/ 11.3ns
RG Value:	0	0	0	0	0	0
SDCM:	6	6	6	6	6	6
P_{ST} LM:	NA	NA	NA	NA	NA	NA
SVM:	NA	NA	NA	NA	NA	NA
Energy Class:	E/E	E/E	E/D	D/D	D/D	E/D
Rated Life to L70B50 (Hrs):	50000	50000	50000	50000	50000	50000
Dimensions LxWxH (mm):	201x235.5x34.5	262x277.5x41.5	304x383.5x57.5	418x487.5x59.5	418x487.5x59.5	444x582x60
Weight (kg):	1.02	1.6	4.28	7.01	7.01	11.8

Separate Control Gear Information						
Type of Light Source:	LED	LED	LED	LED	LED	LED
Full Load Efficiency (%):	92	93	92	93	90	94
P_{NET} (W):	NA	NA	NA	NA	NA	NA
Dimensions (mm):	142x24x15	210x30x30	215x65x29	320x85x29	320x85x29	252x90x45

Product is certified to all the relevant standards.
Please contact our technical department for market specific compliances.

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ROBUS®

INDUSTRIAL

COSMIC ASYMMETRIC LED FLOOD LIGHT

30W,50W,100W,130W,170W, 300W, IP65

Cone Illuminance Diagram

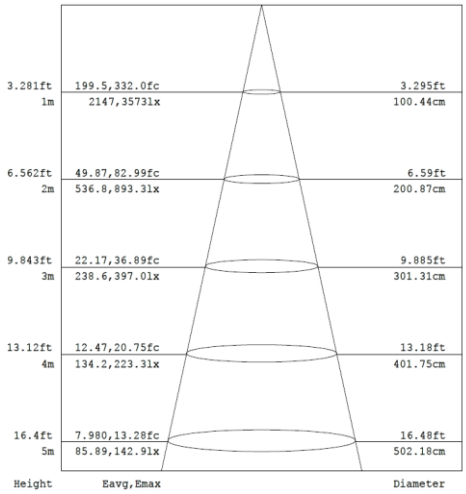


Diagram for RCMA9040AS-04 in 4000K. Other diagrams available on request

Polar Intensity Diagram

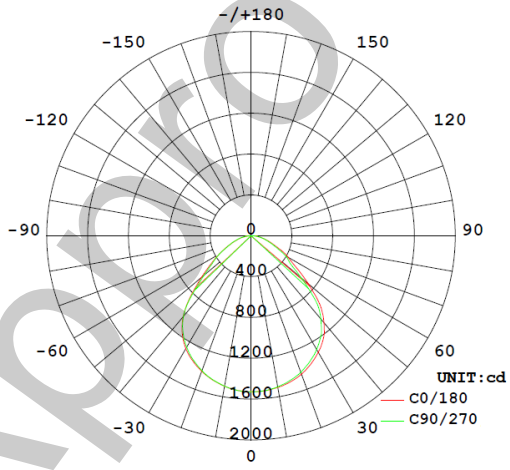
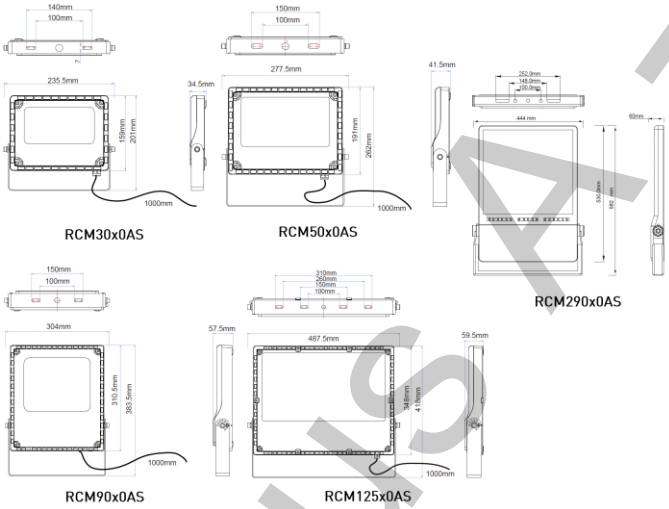


Diagram for RCMA9040AS-04 in 4000K. Other diagrams available on request

Dimension Diagram



Accessories

RCMS-04	COSMIC 300W LED flood light, Spigot Accessory, Black

Sensor Data

Time Off Delay:	NA
Illuminance Switching Range:	NA
Sensitivity Range (%):	NA
Mounting Height (max):	NA
Detection Zone Diameter (max):	NA

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NW Lighting Solutions

Installation : External Lighting

Project number	:	Varley St School
Customer	:	Vaughan Engineering
Processed by	:	Dave Wood
Date	:	18.09.2024

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The following values are based on precise calculations performed on calibrated lamps and luminaires, and their configurations, whereby gradual, unavoidable deviations can occur in practice. All guarantee claims are excluded for the specified data.

This exclusion of liability applies irrespective of the legal grounds for both damages and consequential damages suffered by users and third parties.

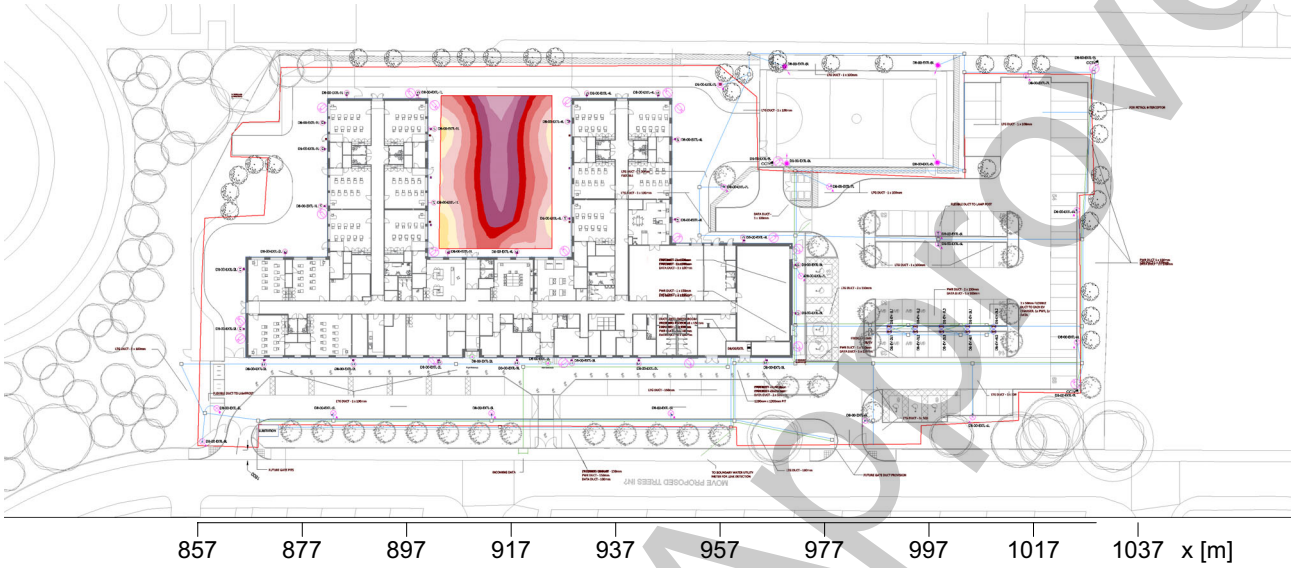
Dave Wood - M:07704 679776 - E: dave.wood@eel.co.uk

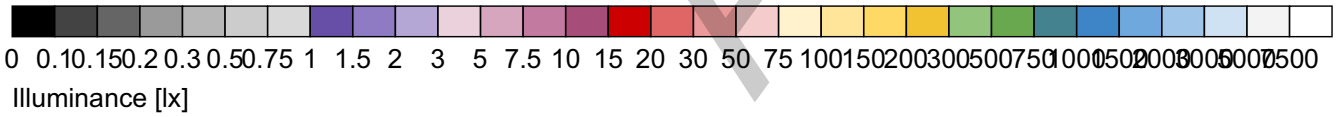
Object :
Installation : External Lighting
Project number : Varley St School
Date : 18.09.2024

1 Exterior 1

1.1 Summary, Exterior 1

1.1.1 Result overview, Courtyard





General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
Maintenance factor	0.80
Total luminous flux	210008 lm
Total power	1649.1 W
Total power per area (10480.45 m²)	0.16 W/m²

Illuminance

Average illuminance	$\bar{E}_m$	35 lx
Minimum illuminance	E_{min}	6 lx
Maximum illuminance	E_{max}	113 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	1:5.93 (0.17)
Diversity U_d	E_{min}/E_{max}	1:19.1 (0.05)

Type No.\Make

ANSELL

1 30 x Order No. : AWOLF/BLK/M3 (CW 19W)
Luminaire name : BULKHEADS - Wolf Black 4000K
Equipment : 1 x LED single 840 19.41 W / 2392 lm
Emergency : 398 lm (16.6 %)

2 1 x Order No. : ASULED/2/CW
Luminaire name : STREETLIGHTS - Asuri Post Top
Equipment : 1 x LED 63 W / 6000 lm

Status A - Approved

Object :
Installation : External Lighting
Project number : Varley St School
Date : 18.09.2024

1 Exterior 1

1.1 Summary, Exterior 1

1.1.1 Result overview, Courtyard

ROBUS

3 5 x Order No. : RCM9040AS-04/CCT 4000K
Luminaire name : Cosmic Asymmetric
Equipment : 1 x LED 88.75 W / 10960 lm

Kingfisher Lighting Ltd

4 14 x Order No. : 40W LED 4000K VIVA-CITY Pro 1050mA with FW70 forward throw optic
Luminaire name : Viva City Pro
Equipment : 1 x Lumiled 5050 LED Array >70CRI 4000K TM65 105kg CO^2e TM66 2.9 40 W / 5532 lr

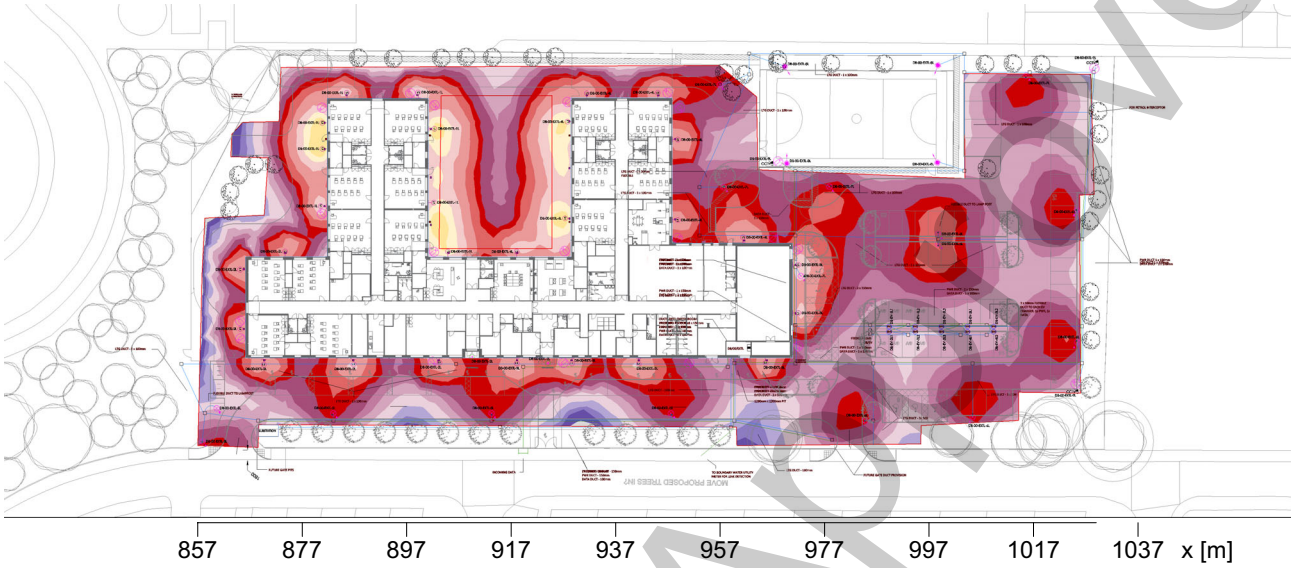
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Object :
Installation : External Lighting
Project number : Varley St School
Date : 18.09.2024

NW Lighting Solutions

1.1 Summary, Exterior 1

1.1.2 Result overview, Evaluation area 1



General

Calculation algorithm used	Average indirect fraction
Maintenance factor	0.80
Total luminous flux	210008.00 lm
Total power	1649.1 W
Total power per area (10480.45 m²)	0.16 W/m² (0.95 W/m²/100lx)

Evaluation area 1	**Reference plane 1.1**
	Horizontal
$\bar{E}_m$	16.5 lx
E_{min}	1 lx
$E_{min}/\bar{E}_m$ (U_o)	0.06
E_{min}/E_{max} (U_d)	0.01
Position	0.00 m

Type No.\Make

		ANSELL	
1	30 x	Order No.	: AWOLF/BLK/M3 (CW 19W)
		Luminaire name	: BULKHEADS - Wolf Black 4000K
		Equipment	: 1 x LED single 840 19.41 W / 2392 lm
		Emergency	: 398 lm (16.6 %)
2	1 x	Order No.	: ASULED/2/CW
		Luminaire name	: STREETLIGHTS - Asuri Post Top
		Equipment	: 1 x LED 63 W / 6000 lm

Status A - Approved

Object :
Installation : External Lighting
Project number : Varley St School
Date : 18.09.2024

NW Lighting Solutions

1.1 Summary, Exterior 1

1.1.2 Result overview, Evaluation area 1

ROBUS

3 5 x Order No. : RCM9040AS-04/CCT 4000K
Luminaire name : Cosmic Asymmetric
Equipment : 1 x LED 88.75 W / 10960 lm

Kingfisher Lighting Ltd

4 14 x Order No. : 40W LED 4000K VIVA-CITY Pro 1050mA with FW70 forward throw optic
Luminaire name : Viva City Pro
Equipment : 1 x Lumiled 5050 LED Array >70CRI 4000K TM65 105kg CO^2e TM66 2.9 40 W / 5532 lr

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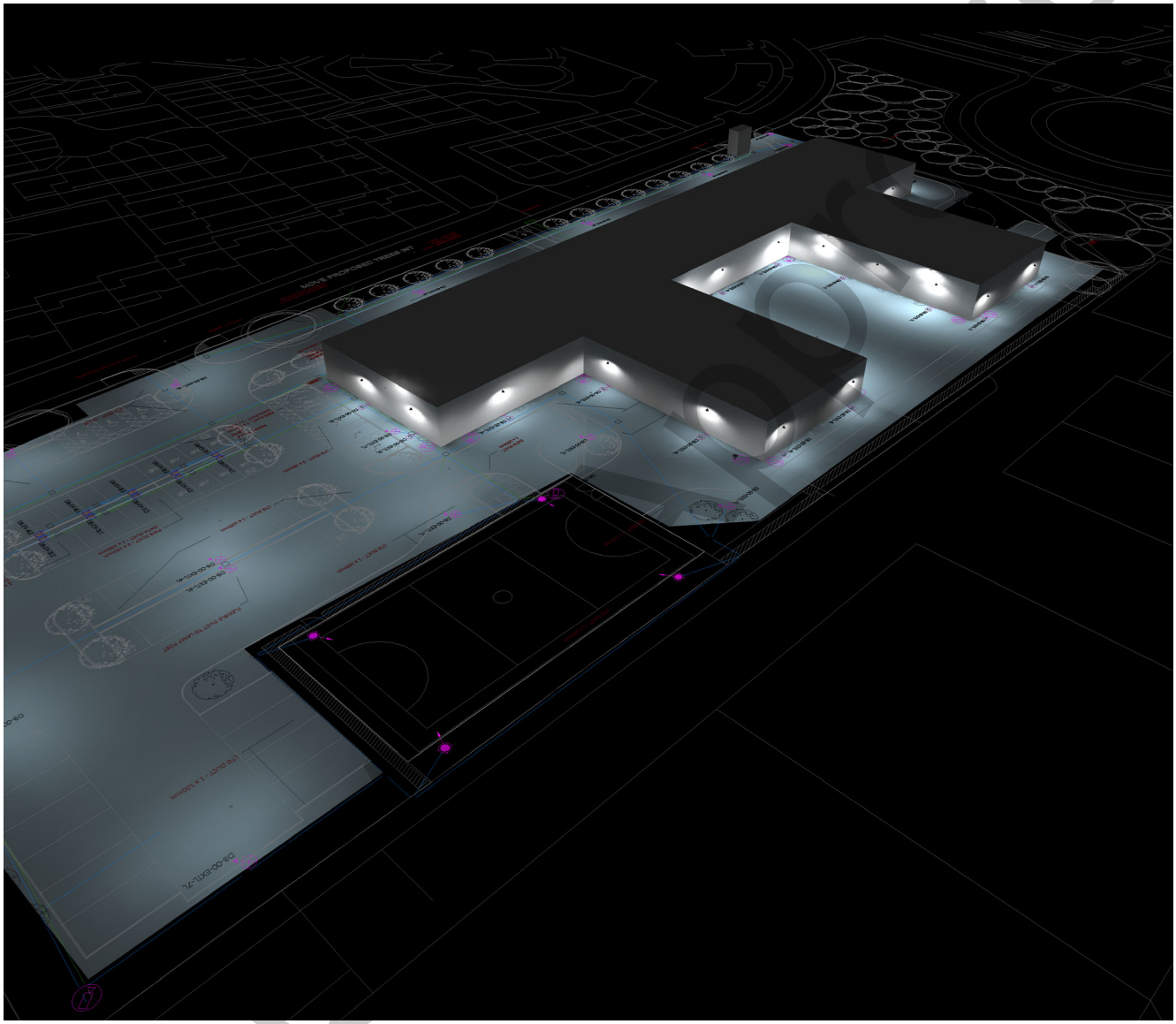
Object :
Installation : External Lighting
Project number : Varley St School
Date : 18.09.2024

NW Lighting Solutions

1 Exterior 1

1.2 Calculation results, Exterior 1

1.2.1 3D luminance, View 1



Luminance in the scene
Minimum: : 0 cd/m²
Maximum: : 365 cd/m²

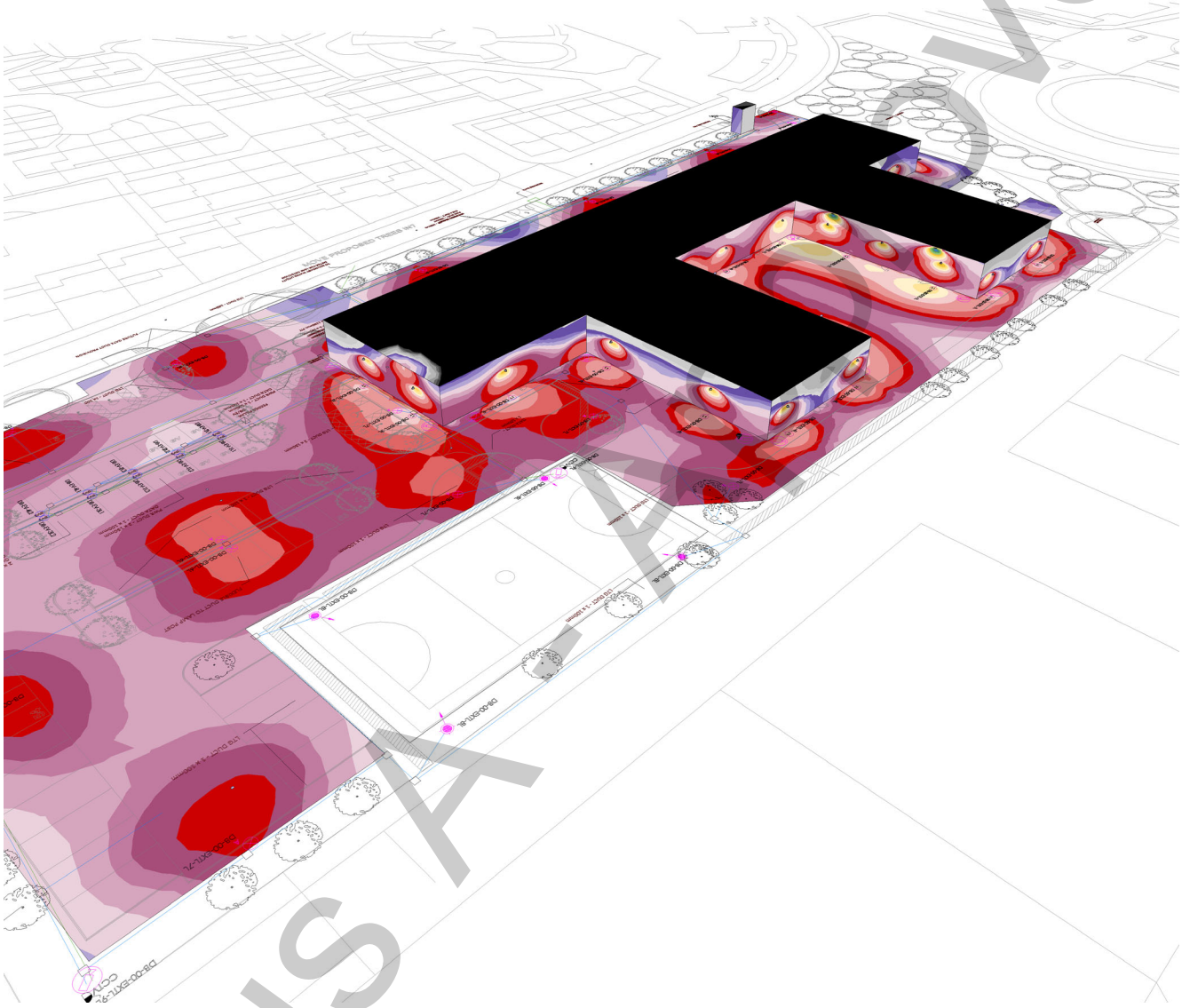
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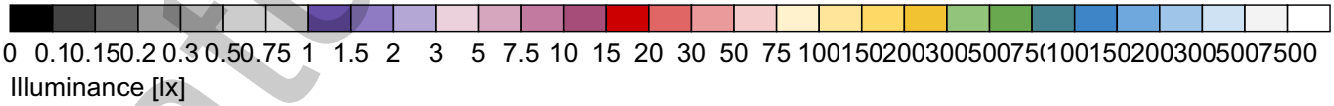
Object :
Installation : External Lighting
Project number : Varley St School
Date : 18.09.2024

NW Lighting Solutions

1.2 Calculation results, Exterior 1

1.2.2 3D pseudo colours, View 1 (E)





Status A - Approved

Installation : External Lighting

Project number	:	Varley St School
Customer	:	Vaughan Engineering
Processed by	:	Dave Wood
Date	:	18.09.2024

Status A - Approved

We have the pleasure in attaching our Lighting Design for the aforementioned project for your approval
Illuminance and uniformity levels are shown for your approval with calculations having been carried out as per the information, drawings and / or specifications details provided. Please check to confirm that all details are correct, especially dimensions of the room(s) and fitting specification to ensure these are as required. In the absence of a written specification areas will be illuminated to the recommended standards according to their primary function. Areas are generally to be open without any obstructions above the working plane unless otherwise advised
Where applicable the design conforms to the latest recommendations and guidelines. if conformity to LG7 is to be proved with exact figure, we may need to add or change the luminaire types. We have used common design parameters for ceiling heights and reflectance's of room surfaces- (wall 50% ceiling 70% floor 20%) as well as maintenance factors (LED light source up to 0.9), in our calculations unless details were provided otherwise
Please note that it is the installers responsibility to check and confirm TP(a) and TP(b) requirements as per Building Regulations Approved Document B Fire Safety 2006 with amendments 2010-2013. Compliant luminaires will generally proposed dependant on the application and / or area type. Should the product specified by us be subsequently replaced with an inferior / non compliant product type - any liability and / or cost incurred for subsequent remedial work required would be the responsibility of the client
Emergency lighting will be designed to the recommended guidelines set out in BS5266. Provision for High Risk areas will be made ONLY where obvious and / or those identified by the client. It is the responsibility of the Purchaser / Installer to endure that the design complies with local fire and health and safety regulations. In the event that the design is not found to comply we will adjust the design in consultation with the customer to ensure that it does comply with such regulations. Please be aware of the Part L2 requirements and check that conformity has been met where required
The following calculations are based on manufacturer lamp / luminaire data however, in practice gradual divergencies can occur. Specific site conditions (such as ambient temperature) can also effect the performance of luminaires and any such adverse conditions should be detailed prior to calculations being carried out to ensure adequate provision has been made for these
Whilst every effort will be made to adhere to the written or product specification provided, it is always the responsibilty of the customer to ensure that any design scheme, specification and / or product supplied satisfies fully and complies with the end users requirements and is suitable for the installation - If unsure of any suggested fittings it is advisable to order samples in advance following values are based on exact calculations on calibrated lamps, luminaires and their arrangement. In practice, gradual divergencies can occur
The following values are based on precise calculations performed on calibrated lamp and luminaires, and their configurations, whereby gradual unaviodable deviations can occur in practise. All guarantee claims are excluded for the specified data
This exclusion of liability applies irrepective of the legal grounds for both damages and consquential damages suffered by users and third parties.

The following values are based on precise calculations performed on calibrated lamps and luminaires, and their configurations, whereby gradual, unavoidable deviations can occur in practice. All guarantee claims are excluded for the specified data.

This exclusion of liability applies irrespective of the legal grounds for both damages and consequential damages suffered by users and third parties.

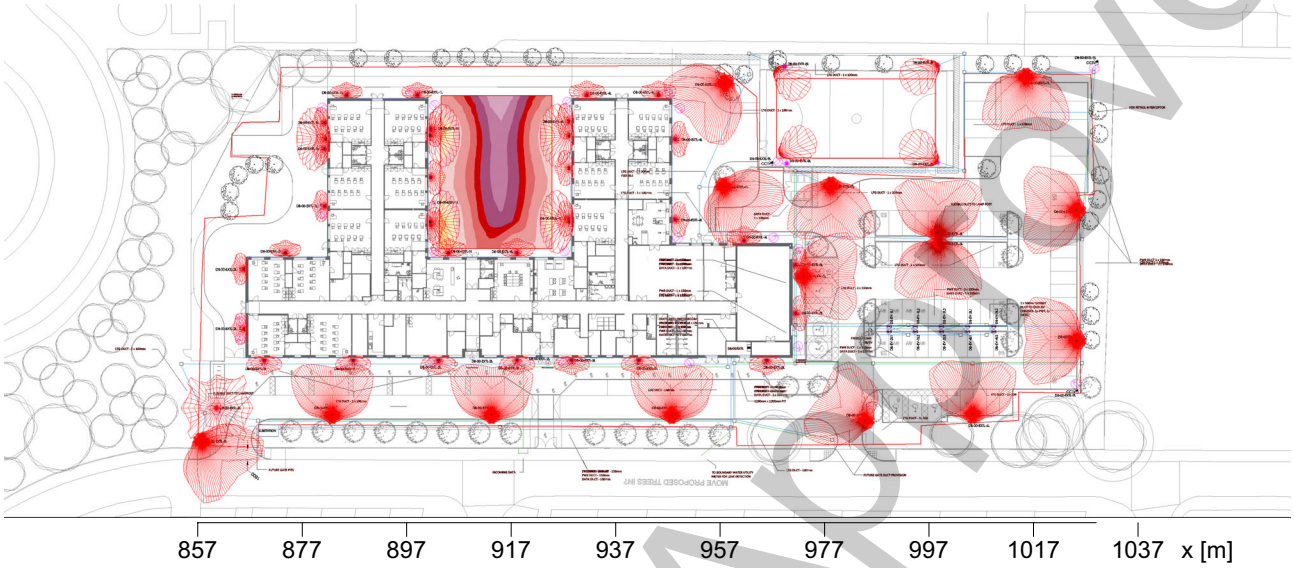
Dave Wood - M:07704 679776 - E: dave.wood@eel.co.uk

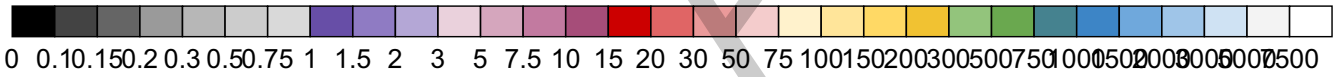
Object :
Installation : External Lighting
Project number : Varley St School
Date : 18.09.2024

1 Exterior 1

1.1 Summary, Exterior 1

1.1.1 Result overview, Courtyard





Illuminance [lx]

General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
Maintenance factor	0.80
Total luminous flux	441586.406 lm
Total power	2969.1 W
Total power per area (10480.45 m²)	0.28 W/m²

Illuminance

Average illuminance	$\bar{E}_m$	35 lx
Minimum illuminance	E_{min}	6 lx
Maximum illuminance	E_{max}	113 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	1:5.67 (0.18)
Diversity U_d	E_{min}/E_{max}	1:18.3 (0.05)

Type No.\Make

		ANSELL	
1	30 x	Order No.	: AWOLF/BLK/M3 (CW 19W)
		Luminaire name	: BULKHEADS - Wolf Black 4000K
		Equipment	: 1 x LED single 840 19.41 W / 2392 lm
		Emergency	: 398 lm (16.6 %)
2	1 x	Order No.	: ASULED/2/CW
		Luminaire name	: STREETLIGHTS - Asuri Post Top
		Equipment	: 1 x LED 63 W / 6000 lm

Status A - Approved

Object :
Installation : External Lighting
Project number : Varley St School
Date : 18.09.2024

1 Exterior 1

1.1 Summary, Exterior 1

1.1.1 Result overview, Courtyard

7 4 x Order No. : AAZT6/ASY/1 (320W 4000K)
Luminaire name : FLOODLIGHTS - Aztec Floodlight Asymetric 4000K
Equipment : 1 x LED 320 W / 56511.6 lm

ROBUS

3 5 x Order No. : RCM9040AS-04/CCT 4000K
Luminaire name : Cosmic Asymmetric
Equipment : 1 x LED 88.75 W / 10960 lm

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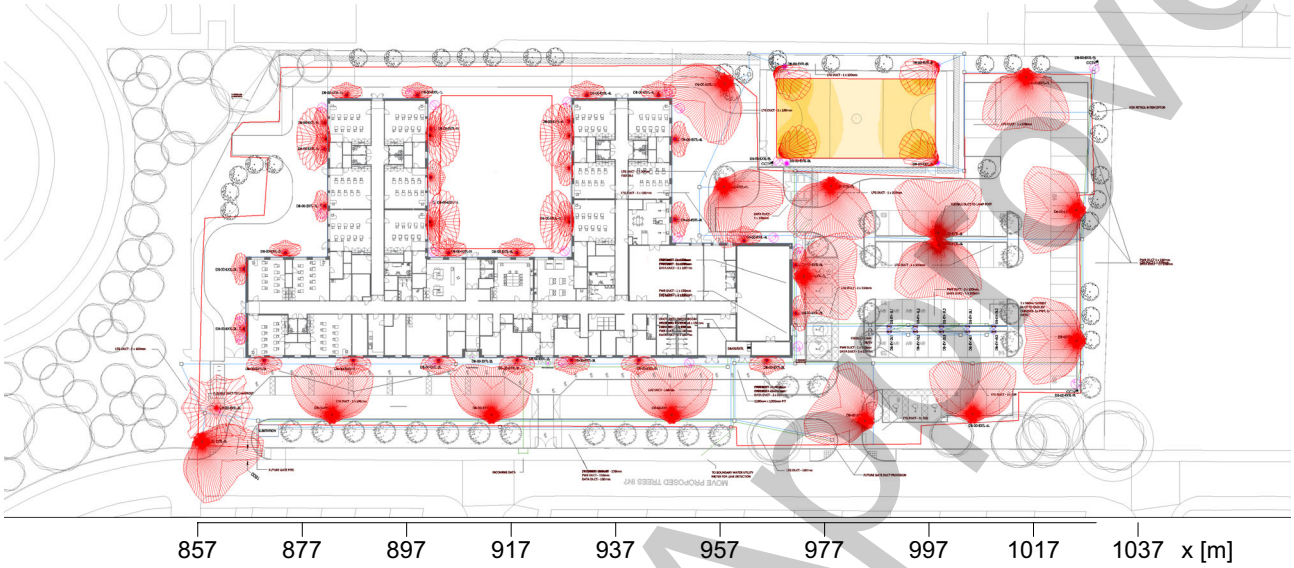
4 15 x Order No. : 40W LED 4000K VIVA-CITY Pro 1050mA with FW70 forward throw optic
Luminaire name : Viva City Pro
Equipment : 1 x Lumiled 5050 LED Array >70CRI 4000K TM65 105kg CO^2e TM66 2.9 40 W / 5532 lr

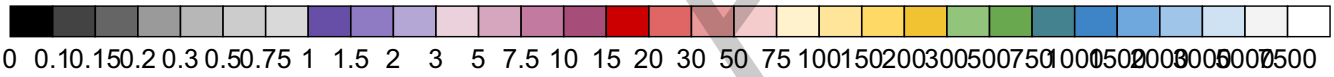
Status A - Approved

Object :
Installation : External Lighting
Project number : Varley St School
Date : 18.09.2024

1.1 Summary, Exterior 1

1.1.2 Result overview, MUGA Pitch





Illuminance [lx]

General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.24 m
Maintenance factor	0.80
Total luminous flux	441586.406 lm
Total power	2969.1 W
Total power per area (10480.45 m²)	0.28 W/m²

Illuminance

Average illuminance	$\bar{E}_m$	139 lx
Minimum illuminance	E_{min}	81 lx
Maximum illuminance	E_{max}	276 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	1:1.72 (0.58)
Diversity U_d	E_{min}/E_{max}	1:3.43 (0.29)

Type No.\Make

		ANSELL	
1	30 x	Order No.	: AWOLF/BLK/M3 (CW 19W)
		Luminaire name	: BULKHEADS - Wolf Black 4000K
		Equipment	: 1 x LED single 840 19.41 W / 2392 lm
		Emergency	: 398 lm (16.6 %)
2	1 x	Order No.	: ASULED/2/CW
		Luminaire name	: STREETLIGHTS - Asuri Post Top
		Equipment	: 1 x LED 63 W / 6000 lm

Status A - Approved

Object :
Installation : External Lighting
Project number : Varley St School
Date : 18.09.2024

1.1 Summary, Exterior 1

1.1.2 Result overview, MUGA Pitch

7 4 x Order No. : AAZT6/ASY/1 (320W 4000K)
Luminaire name : FLOODLIGHTS - Aztec Floodlight Asymetric 4000K
Equipment : 1 x LED 320 W / 56511.6 lm

ROBUS

3 5 x Order No. : RCM9040AS-04/CCT 4000K
Luminaire name : Cosmic Asymmetric
Equipment : 1 x LED 88.75 W / 10960 lm

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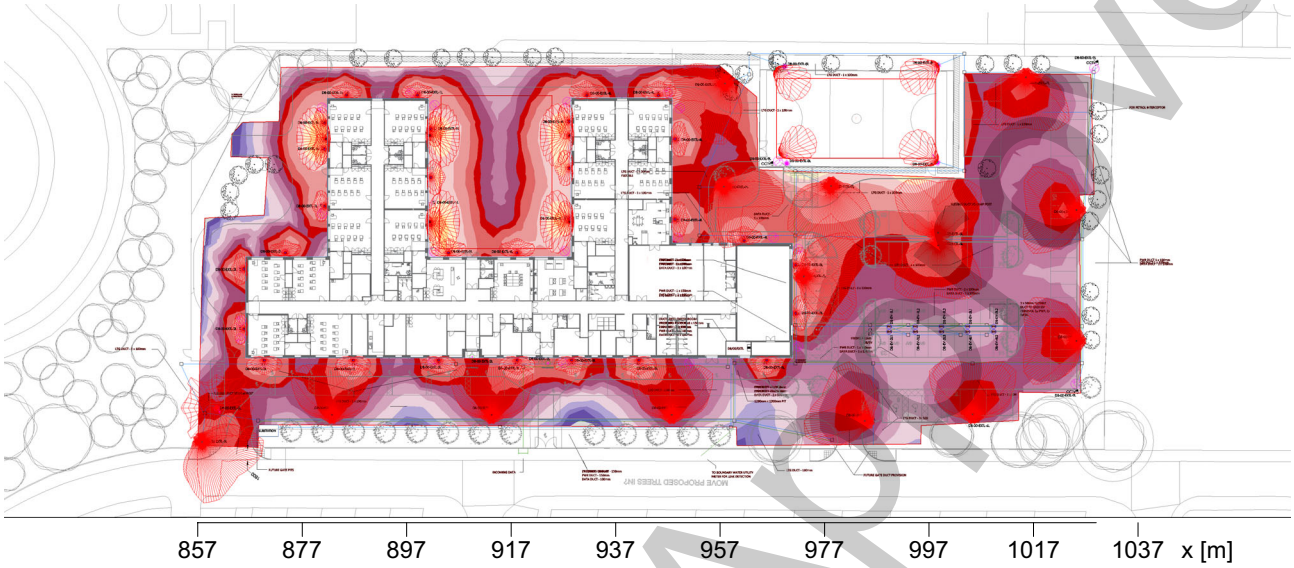
4 15 x Order No. : 40W LED 4000K VIVA-CITY Pro 1050mA with FW70 forward throw optic
Luminaire name : Viva City Pro
Equipment : 1 x Lumiled 5050 LED Array >70CRI 4000K TM65 105kg CO^2e TM66 2.9 40 W / 5532 lr

Status A - Approved

Object :
Installation : External Lighting
Project number : Varley St School
Date : 18.09.2024

1.1 Summary, Exterior 1

1.1.3 Result overview, Evaluation area 1



General

Calculation algorithm used	Average indirect fraction
Maintenance factor	0.80
Total luminous flux	215540.00 lm
Total power	1689.1 W
Total power per area (10480.45 m²)	0.16 W/m² (0.83 W/m²/100lx)

Evaluation area 1	**Reference plane 1.1**
	Horizontal
$\bar{E}_m$	19.3 lx
E_{min}	1 lx
$E_{min}/\bar{E}_m$ (U_o)	0.05
E_{min}/E_{max} (U_d)	0.01
Position	0.00 m

Type No.\Make

		ANSELL	
1	30 x	Order No.	: AWOLF/BLK/M3 (CW 19W)
		Luminaire name	: BULKHEADS - Wolf Black 4000K
		Equipment	: 1 x LED single 840 19.41 W / 2392 lm
		Emergency	: 398 lm (16.6 %)
2	1 x	Order No.	: ASULED/2/CW
		Luminaire name	: STREETLIGHTS - Asuri Post Top
		Equipment	: 1 x LED 63 W / 6000 lm

Status A - Approved

Object :
Installation : External Lighting
Project number : Varley St School
Date : 18.09.2024

1.1 Summary, Exterior 1

1.1.3 Result overview, Evaluation area 1

ROBUS

3 5 x 
Order No. : RCM9040AS-04/CCT 4000K
Luminaire name : Cosmic Asymmetric
Equipment : 1 x LED 88.75 W / 10960 lm

Kingfisher Lighting Ltd

4 15 x 
Order No. : 40W LED 4000K VIVA-CITY Pro 1050mA with FW70 forward throw optic
Luminaire name : Viva City Pro
Equipment : 1 x Lumiled 5050 LED Array >70CRI 4000K TM65 105kg CO^2e TM66 2.9 40 W / 5532 lr

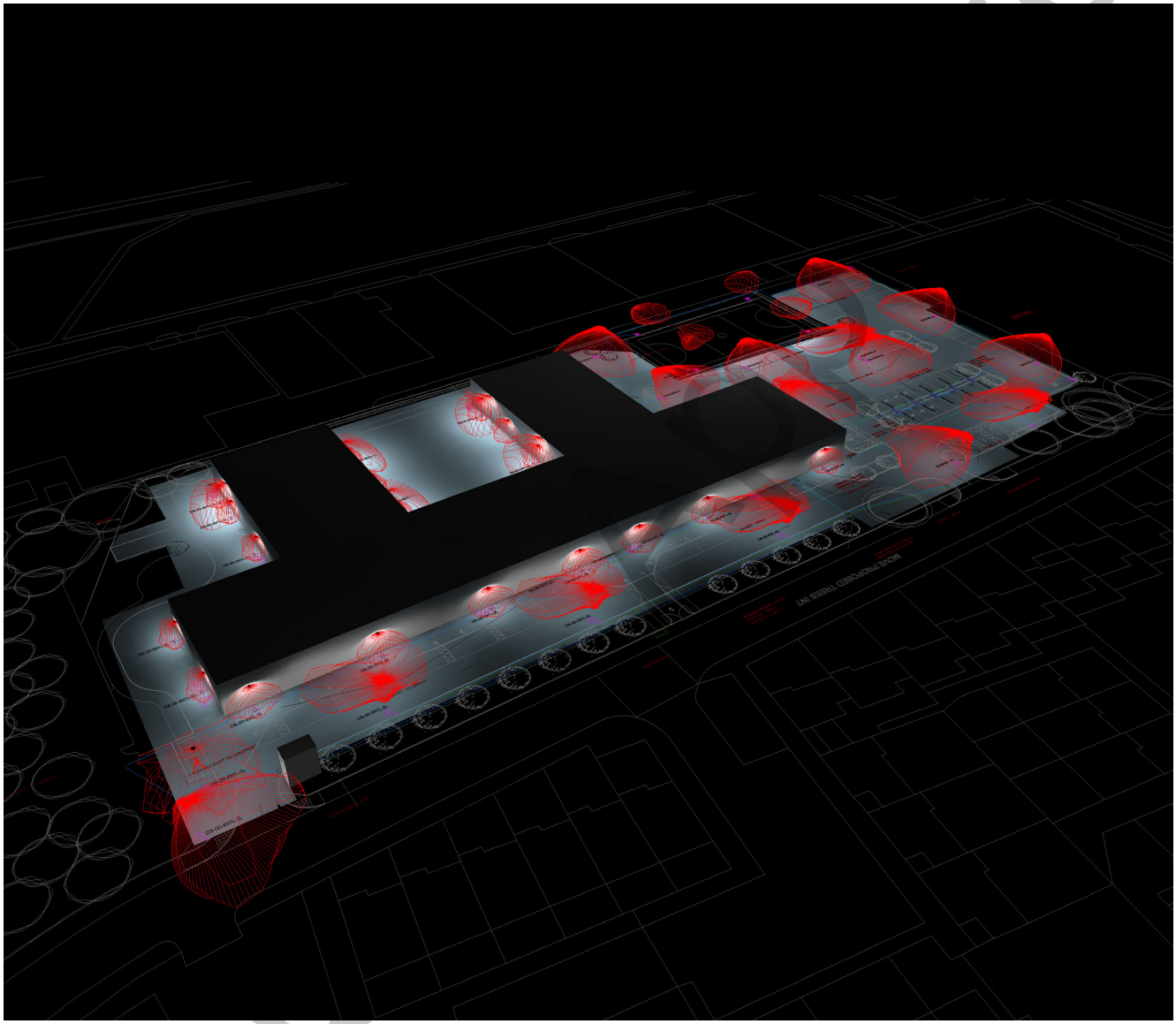
Status A - Approved

Object :
Installation : External Lighting
Project number : Varley St School
Date : 18.09.2024

1 Exterior 1

1.2 Calculation results, Exterior 1

1.2.1 3D luminance, View 1

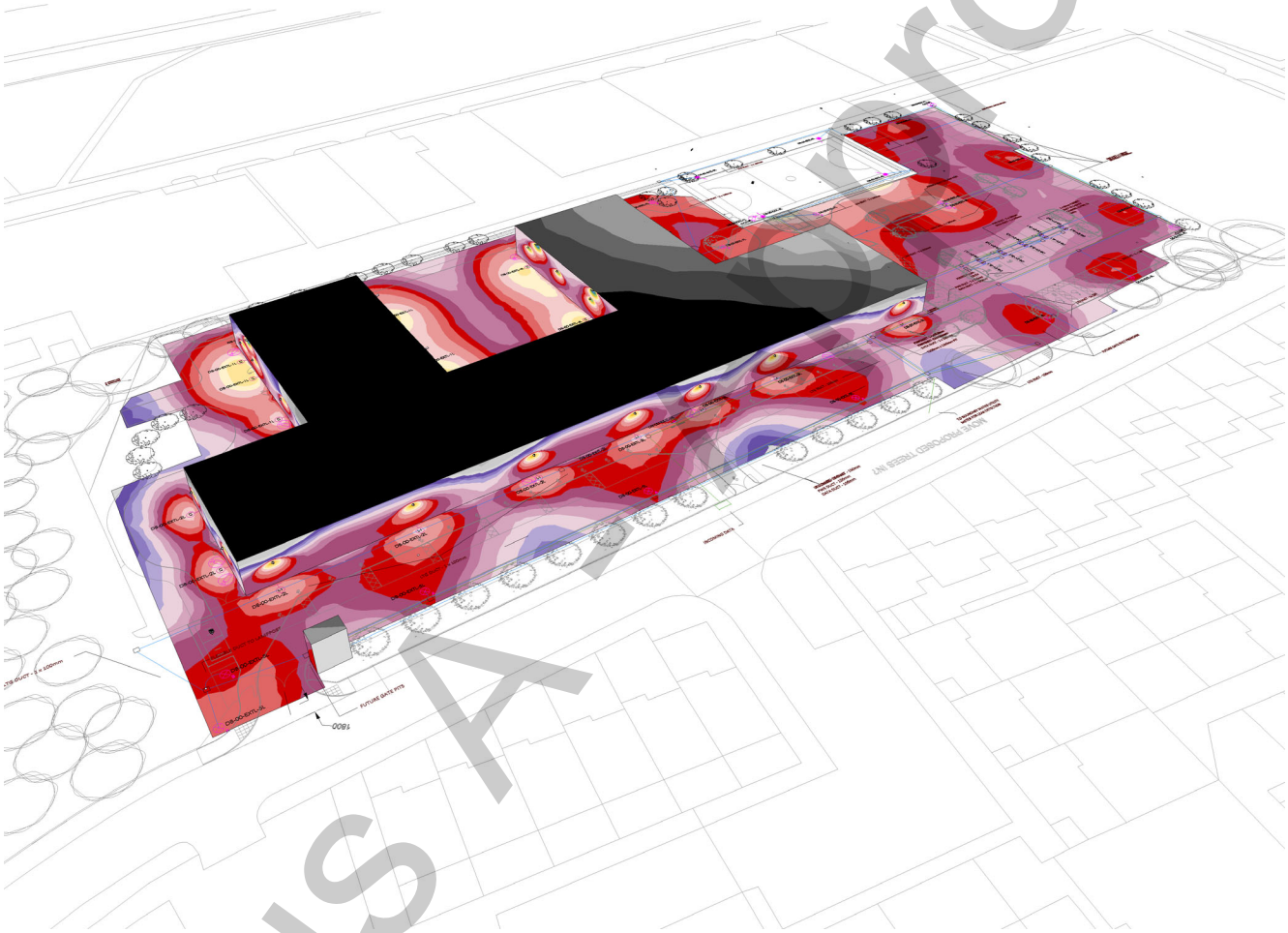


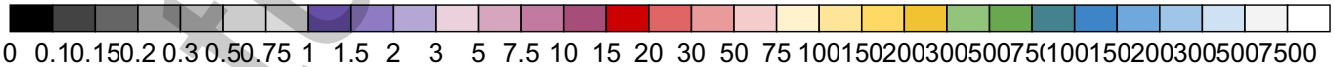
Status A - Approved

Object :
Installation : External Lighting
Project number : Varley St School
Date : 18.09.2024

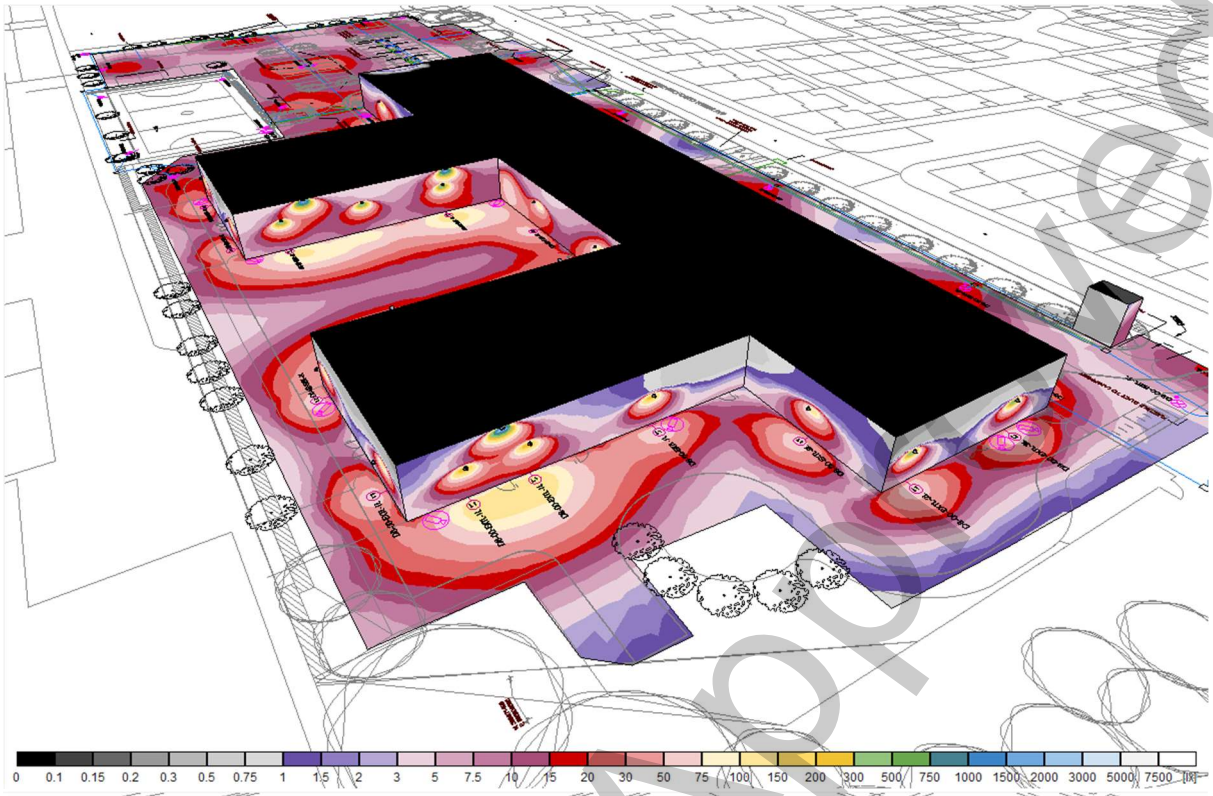
1.2 Calculation results, Exterior 1

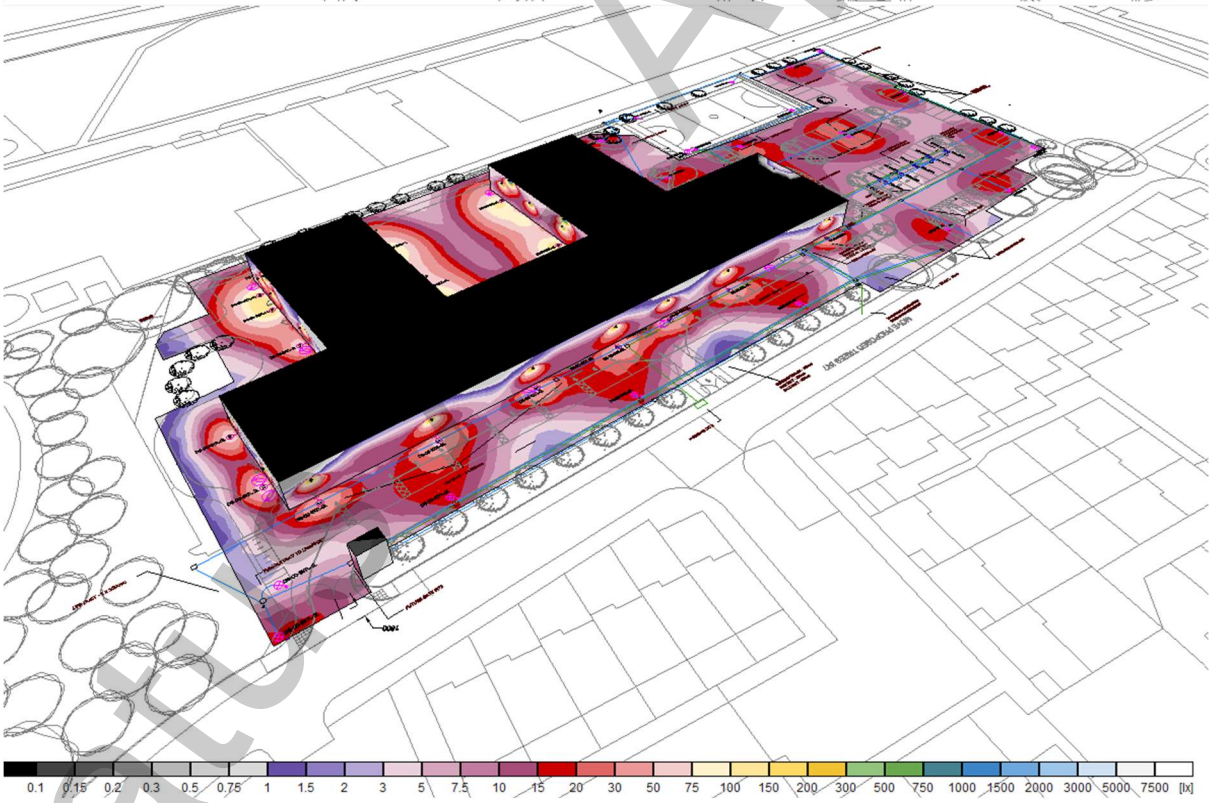
1.2.2 3D pseudo colours, View 1 (E)



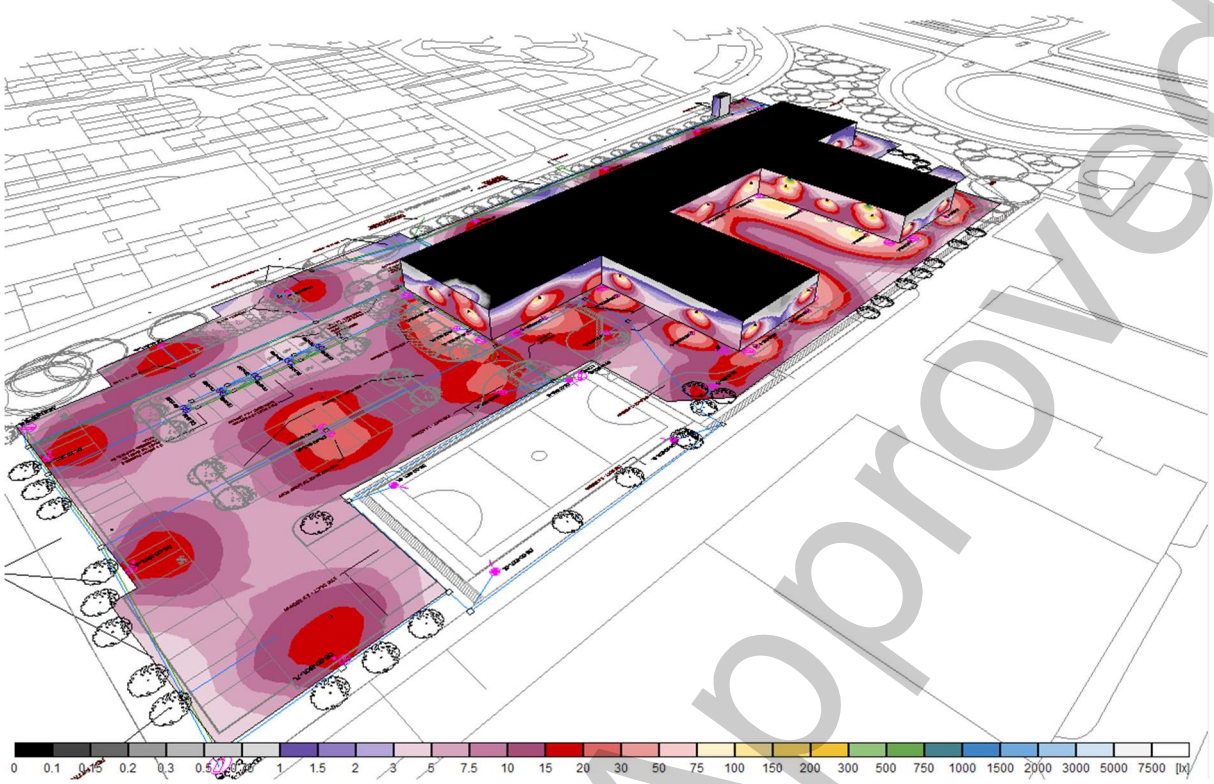


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Datasheet

VIVA-CITY Pro

Product Description

A modular, slimline, performance street lantern with improved efficacy and output. VIVA-CITY Pro offers a choice of optics with asymmetrical distribution including an area optic.

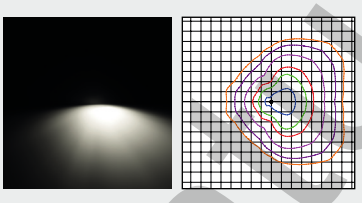
Specification Text

The luminaire shall be manufactured from high-pressure die-cast aluminium. It shall have an LED efficacy of up to 153.0 lm/W and will be capable of producing up to 25,560 luminaire lumens at 4000K with a CRI >70. It shall have asymmetric forward throw optics and is rated at IP66 and IK08.

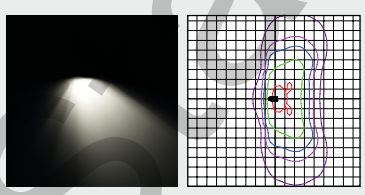
Specification

Weight: 4.8 - 9.1kg
Windage: 0.06 – 0.09m²
Material: Die-cast Aluminium
Paint finish: RAL7016 Anthracite Grey Finish

Optics



FW70



FWB70

Key Features

- 10.0W – 180.0W
- 1,380 – 25,660 Luminaire Lumens
- Efficacy up to 153.0 lm/W
- 2700K, 4000K, CRI >70
- Lifetime >100,000hr, L80

LED | IP66 | IK08 | DIM | Marine Grade Finish | EM | Control Compatible

Mounting Options

- Post Top 60/76mm

Other Options

- Part Night Dimming
- Colour Temperature Option
- Photocell Option
- Emergency Option
  Contact for details

DESIGNED & ENGINEERED IN THE UK

ida DARK SKY APPROVED by The International Dark-Sky Association darksky.org

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Code	Power	Luminaire Lumens	Drive Current	Optic	CCT(K)	IP	IK	Weight kg	Paint Finish	Driver Included	Driver Type
VCYP-FW70-4.4-10D-02	10.0	1,380	400	Forward Throw Optic - 70°	4000	IP66	IK08	4.8	RAL7016 Anthracite Grey Finish	Driver Inc	DALI
VCYP-FW70-4.8-20D-02	20.0	3,000	840		4000	IP66	IK08	4.8	RAL7016 Anthracite Grey Finish	Driver Inc	DALI
VCYP-FW70-4.10-40D-02	40.0	5,880	1050		4000	IP66	IK08	6.0	RAL7016 Anthracite Grey Finish	Driver Inc	DALI
VCYP-FW70-4.6-60D-02	60.0	8,760	610		4000	IP66	IK08	6.0	RAL7016 Anthracite Grey Finish	Driver Inc	DALI
VCYP-FW70-4.8-80D-02	80.0	11,040	800		4000	IP66	IK08	6.0	RAL7016 Anthracite Grey Finish	Driver Inc	DALI
VCYP-FW70-4.6-120D-02	120.0	17,760	620		4000	IP66	IK08	9.0	RAL7016 Anthracite Grey Finish	Driver Inc	DALI
VCYP-FW70-4.9-180D-02	180.0	24,660	900		4000	IP66	IK08	9.0	RAL7016 Anthracite Grey Finish	Driver Inc	DALI
VCYP-FWB70-4.10-40DSHIELD-02	40.0	4,667	1050	Spill Shield Forward Throw Optic - 70°	4000	IP66	IK08	6.0	RAL7016 Anthracite Grey Finish	Driver Inc	DALI
VCYP-FWB70-4.6-60DSHIELD-02	60.0	6,789	610		4000	IP66	IK08	6.0	RAL7016 Anthracite Grey Finish	Driver Inc	DALI
VCYP-FWB70-4.8-80DSHIELD-02	80.0	8,567	800		4000	IP66	IK08	6.0	RAL7016 Anthracite Grey Finish	Driver Inc	DALI
VCYP-FWB70-4.6-120DSHIELD-02	120.0	13,782	620		4000	IP66	IK08	9.0	RAL7016 Anthracite Grey Finish	Driver Inc	DALI
VCYP-FWB70-4.9-180DSHIELD-02	180.0	19,136	900		4000	IP66	IK08	9.0	RAL7016 Anthracite Grey Finish	Driver Inc	DALI

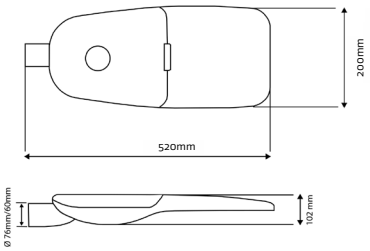




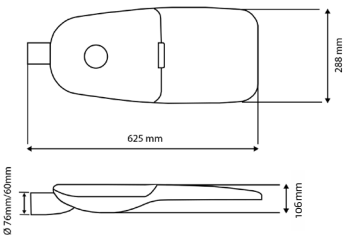


Dimensions

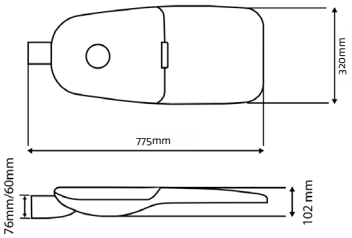
Viva-City Pro 10W



Viva-City Pro 40W, 60W and 80W



Viva-City Pro 120W, 180W



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