



LIGHTING DESIGNER: DOMINIC HARKNESS

CONTACT NUMBER: 01942 433 527

PROJECT NUMBER: QUO-113714-FOBSHZ

PROJECT TITLE: The Grove External (SM)



Designed to Deliver

Ansell Lighting Design Department

Ansell Electrical Products Ltd
Unit 6B, Stonecross Industrial Park
Yew Tree Way
Warrington
WA3 3JD



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

Wolf Mini

Wolf Mini Wallpack CCT Black

Code: AWOLF/MINI/BLK



- 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
- High efficiency up to 125 Lm/W
- Multiple conduit, 20mm East and West side entries and rear BESA mounting
- Advanced lens technology offers wide distribution for optimum spacing and uniformity; whilst ensuring minimal uplight and light pollution
- Power selectable; offering a choice of 2 outputs, in one luminaire
- Electrostatic paint finish for enhanced corrosion resistance
- Dimmable and Smart options available

GENERAL INFORMATION	
Wattage	4.5/8W
Lumens Delivered	500/1000lm (4000K)
Lm/W	125lm/W (4000K)
Beam Angle	70/140
CRI	82
CCT	3000/4000K
Input	220-240V
Operating Temp	-20°C - 40°C
SDCM	3
Product Weight without Packaging	1.841 kg

TECHNICAL INFORMATION	
Light Source	LED
Colour / Finish	Black
IP Rating	IP65
Class Protection	1
Internal / External	External
Surface / Recessed / Suspended	Wall
Lumen Depreciation	L80 84,000h
Warranty (Years)	5
CE Mark	Yes
Height	156 mm

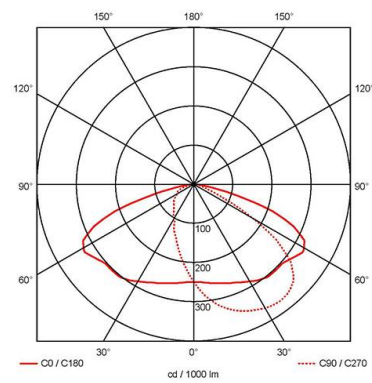
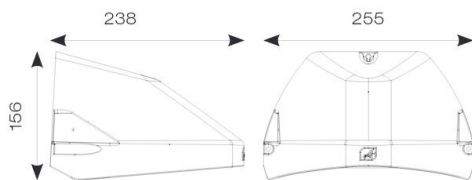


Category	Bulkheads
Application	Ancillary, Commercial, Healthcare, Hospitality, Industrial, Outdoor, Retail
Specification	Performance

Wolf Mini

Wolf Mini Wallpack CCT Black

Code: AWOLF/MINI/BLK





Category	Bollards
Application	Hospitality, Outdoor, Residential, Retail
Specification	Architectural

Avio

Avio Bollard 955mm Warm White Black
Code: AAVIO/900/BL/WW

- Robust die-cast aluminium bollard with a choice of textured finishes suitable for commercial applications
- Supplied c/w expansion bolts for mounting
- Half-shield lens option to offer single direction output
- Non-dimmable

GENERAL INFORMATION

Wattage	21W
Lumens Delivered	800lm
Lm/W	37lm/W
Beam Angle	140
CRI	80
CCT	3000K
Input	220-240V
Operating Temp	-10°C - 40°C
SDCM	5
Product Weight without Packaging	5.968 kg

TECHNICAL INFORMATION

Light Source	LED
Colour / Finish	Black
IP Rating	IP65
Class Protection	1
Internal / External	External
Surface / Recessed / Suspended	Floor
Lumen Depreciation	L80 50,000h
Warranty (Years)	5
CE Mark	Yes
Height	955 mm

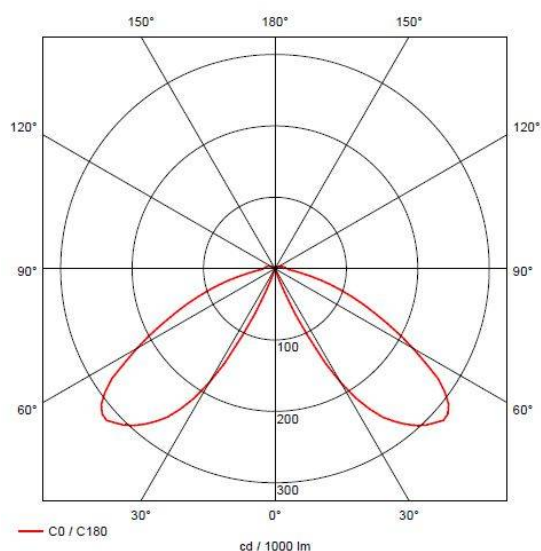
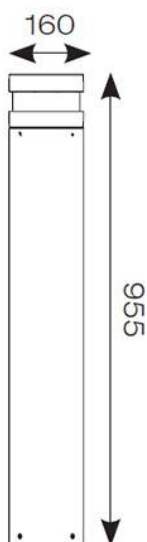


Category	Bollards
Application	Hospitality, Outdoor, Residential, Retail
Specification	Architectural

Avio

Avio Bollard 955mm Warm White Black

Code: AAVIO/900/BL/WW



ACCESSORIES

AAVIO/HS/BL

Avio Bollard Half Shield Black

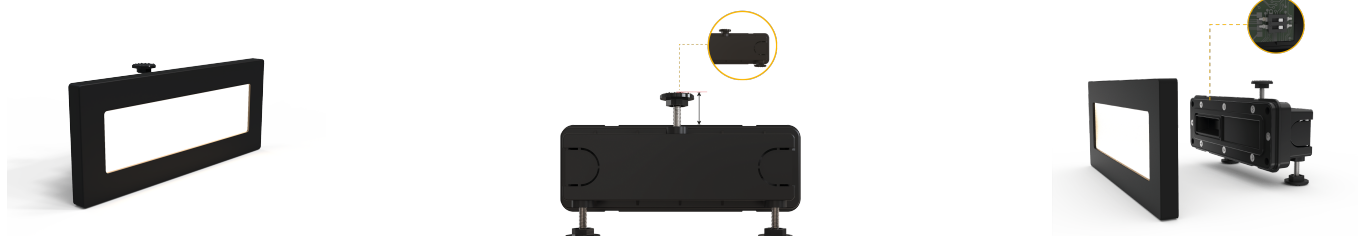


Category	Feature Lighting
Application	Hospitality, Outdoor, Residential, Retail
Specification	Architectural

Matitone

Matitone Bricklight CCT Black

Code: AMATBLED



- Universal polycarbonate LED bricklight suitable for residential and hospitality applications
- Unique adjustable feet allows for installation into multiple brick apertures ranging from 85mm to 115mm
- Pre-wired with 500mm of rubber insulated cable
- CCT selectable between 3000K and 4000K
- Plain frame or eyelid option
- Polycarbonate construction ideal for coastal applications
- Supplied c/w installation housing for additional protection and ease of installation
- Non-dimmable

GENERAL INFORMATION	
Wattage	2W
Lumens Delivered	100lm (4000K)
Lm/W	51lm/W (4000K)
Beam Angle	100
CRI	80
CCT	3000/4000K
Input	220-240V
Operating Temp	-10°C - 40°C
SDCM	6
Product Weight without Packaging	0.56 kg

TECHNICAL INFORMATION	
Light Source	LED
Colour / Finish	Black
IP Rating	IP65
Class Protection	1
Internal / External	External
Surface / Recessed / Suspended	Recessed
Lumen Depreciation	L70 54,000h
Warranty (Years)	3
CE Mark	Yes
Height	106 mm

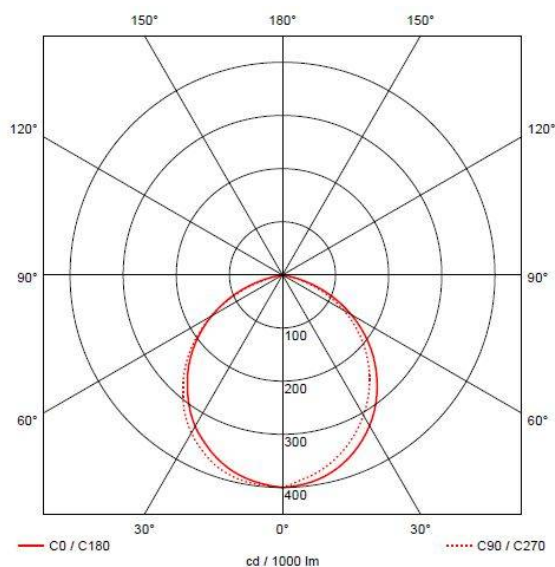
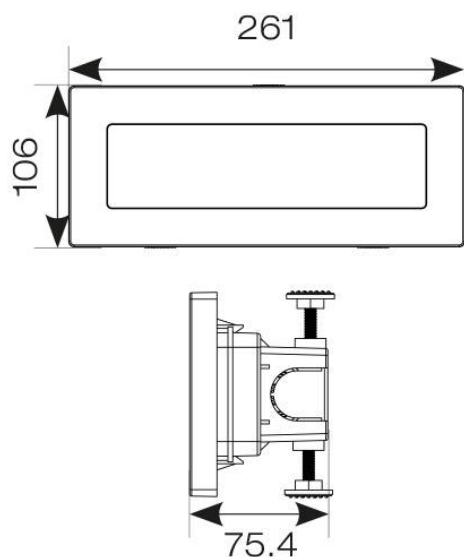


Category	Feature Lighting
Application	Hospitality, Outdoor, Residential, Retail
Specification	Architectural

Mattone

Mattone Bricklight CCT Black

Code: AMATBLED



ACCESSORIES

AMATB/SMB

Mattone Bricklight CCT Surface Mounted Box



Category	Feature Lighting
Application	Hospitality, Outdoor, Retail
Specification	Architectural

Rondo HP

Rondo HP Surface/Spike Light
Code: AROLEDSSS



- High performance LED feature light suitable for hospitality and retail applications
- 60° beam angle
- Pre-wired with 2 metres of H07RN-F cable
- Suitable for surface or spike mounting (spike accessory included)
- Die-cast aluminium construction with textured graphite paint finish
- Non-dimmable

GENERAL INFORMATION	
Wattage	17W
Lumens Delivered	1500lm
Lm/W	88lm/W
Beam Angle	40
CRI	80
CCT	4000K
Input	220-240V
Operating Temp	-20°C - 40°C
SDCM	6
Product Weight without Packaging	1.323 kg

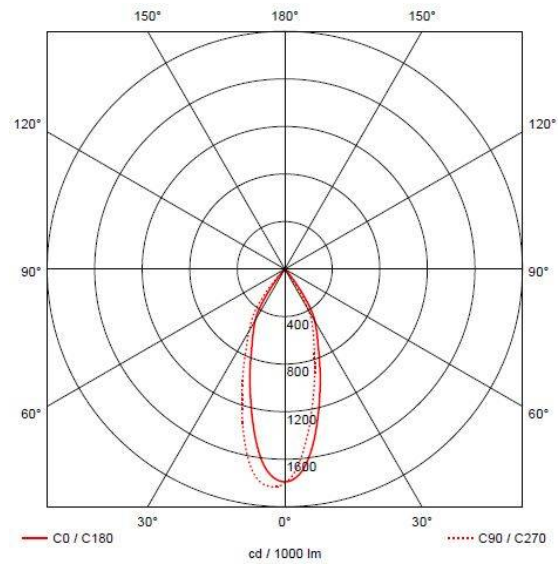
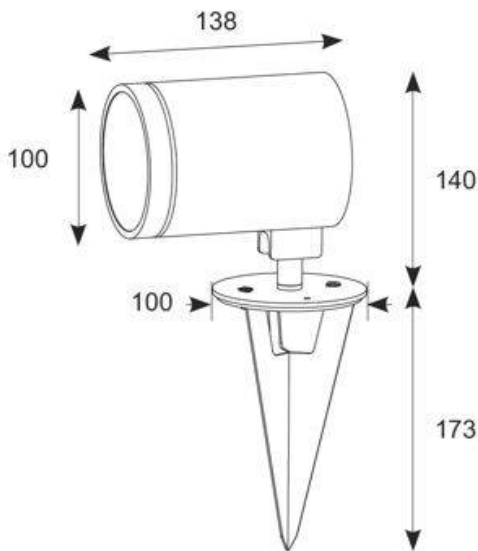
TECHNICAL INFORMATION	
Light Source	LED
Colour / Finish	Graphite
IP Rating	IP65
Class Protection	1
Internal / External	External
Surface / Recessed / Suspended	Floor, Wall
Lumen Depreciation	L70 50,000h
Warranty (Years)	3
CE Mark	Yes
Height	140 mm



Category	Feature Lighting
Application	Hospitality, Outdoor, Retail
Specification	Architectural

Rondo HP

Rondo HP Surface/Spike Light
Code: AROLEDSSS





The Grove External (SM)

Installation : Proposed Lighting

Project number : QUO-113714-FOBSHZ

Customer : Reward Electrical Dist Ltd

Processed by : Dominic Harkness

Date : 23.12.2024

Project description:

All room/exterior area dimensions to be checked on-site prior to ordering.

Calculation based on standard reflectance as 70/50/20 and Maintenance Factor 0.8.

Lighting designed to CIBSE guidelines where applicable and/or client requirements; all stated lux values are for overall averages across the room reference plane.

It is the responsibility of the customer to ensure any scheme provided by Ansell meets all requirements of the end user.



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Object : The Grove External (SM)
Installation : Proposed Lighting
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Date : 23.12.2024



1 Luminaire data

1.1 ANSELL, BULKHEADS - Wolf Mini ... (AWOLF/MINI/BLK ...)

1.1.1 Data sheet

Manufacturer: ANSELL



AWOLF/MINI/BLK (WW 8W) Ceiling mounted luminaire BULKHEADS - Wolf Mini Black 3000K

AWOLF/MINI/BLK
FLOODLIGHTING
Wolf Mini Wallpack CCT Black

- Modern, robust die-cast aluminium low glare wall pack suitable for commercial and industrial applications
- Advanced lens technology offers wide distribution for optimum spacing and uniformity; whilst ensuring minimal uplight and light pollution
- Reduced light pollution with less than 1% upward light distribution, helps with compliance with Dark Skies recommendations
- Power selectable; offering a choice of 2 outputs, in one luminaire
- High efficiency up to 125 Lm/W
- Electrostatic paint finish for enhanced corrosion resistance
- Multiple conduit, 20mm East and West side entries and rear BESA mounting
- Dimmable and Smart options available

Operating Temp -20°C to 40°C

- Suitable for external use
- 5 Year Product Warranty
- IP65

Luminaire data

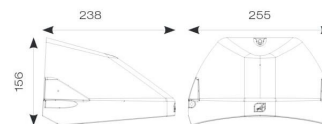
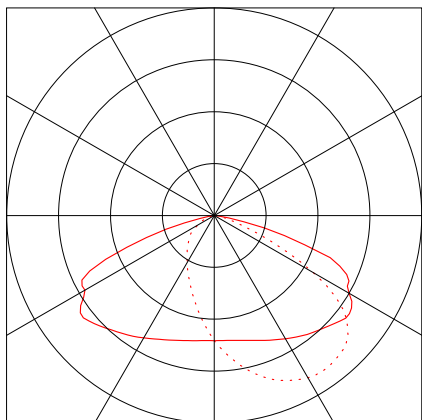
Absolute Photometry

Luminaire efficacy : 115.88 lm/W
Classification : A30 ↓100.0% ↑0.0%
CIE Flux Codes : 39 77 98 100 100
UGR 4H 8H : 27.6 / 13.6
Control gear : Electronic ballast
Power : 8 W
Luminous flux : 927 lm

Dimensions : 210 mm x 210 mm x 0.0 mm

Equipped with

Quantity : 1
Designation : LED single 830
Colour : 3000K
Socket : --
Colour reproduction : --



Object : The Grove External (SM)
Installation : Proposed Lighting
Project number : QUO-113714-FOBSHZ
Date : 23.12.2024



1 Luminaire data

1.2 ANSELL, BOLLARDS - Avio 3000K (AAVIO/900/BL/WW)

1.2.1 Data sheet

Manufacturer: ANSELL



AAVIO/900/BL/WW Freestanding uplighter **BOLLARDS - Avio 3000K**

AAVIO/900/BL/WW

AMENITY

Avio LED Bollard

LED

- Robust die-cast aluminium bollard with a choice of textured finishes suitable for commercial applications
- Half-shield lens option to offer single direction output
- Supplied c/w root mounting kit
- Non-dimmable
- Suitable for external use only
- 5 Year Product Warranty
- IP65

Luminaire data

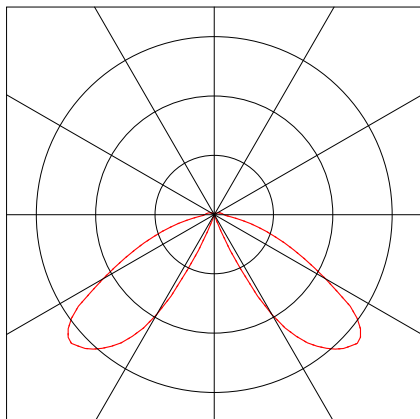
Absolute Photometry

Luminaire efficacy	: 35.82 lm/W
Classification	: A31 ↓95.6% ↑4.4%
CIE Flux Codes	: 25 73 95 96 100
UGR 4H 8H	: 27.5 / 27.5
Control gear	: Electronic ballast
Power	: 21.58 W
Luminous flux	: 773 lm

Dimensions : Ø160 mm x 60 mm

Equipped with

Quantity	: 1
Designation	: LED single 830
Colour	: 3000K
Socket	: --
Colour reproduction	: --



Object : The Grove External (SM)
Installation : Proposed Lighting
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Date : 23.12.2024



1 Luminaire data

1.3 ANSELL, FEATURE LIGHTING - Mattone... (AMATBLED - WW)

1.3.1 Data sheet

Manufacturer: ANSELL



AMATBLED - WW Recessed luminaire FEATURE LIGHTING - Mattone Uni-Bricklight

AMATBLED

AMENITY

Mattone LED Uni-Bricklight CCT

LED 2W

- Universal polycarbonate LED bricklight
 - Unique adjustable feet allows for installation into multiple brick apertures
 - Polycarbonate construction ideal for coastal applications
 - Push fit loop-in loop-out terminals for ease of installation
 - Supplied c/w installation housing for additional protection and ease of installation
 - CCT selectable between 3000K and 4000K
 - Non-dimmable
-
- Suitable for external use only
 - 2 Year Product Warranty
 - IP65

Luminaire data

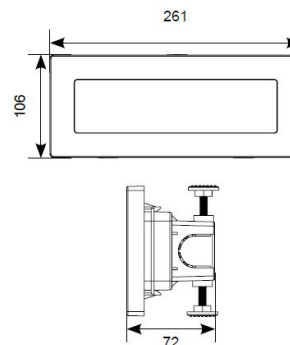
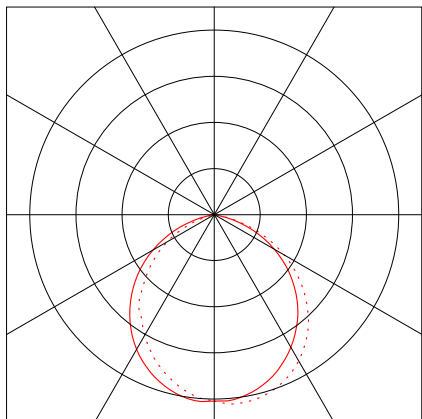
Absolute Photometry

Luminaire efficacy	: 42.46 lm/W
Classification	: A40 ↓100.0% ↑0.0%
CIE Flux Codes	: 53 86 99 100 100
UGR 4H 8H	: 17.2 / 15.3
Control gear	: Electronic ballast
Power	: 2 W
Luminous flux	: 84.9 lm

Equipped with

Quantity	: 1
Designation	: LED single 830
Colour	: 3000K
Socket	: --
Colour reproduction	: --

Dimensions : 251 mm x 106 mm x 0.0 mm



Object : The Grove External (SM)
Installation : Proposed Lighting
Project number : QUO-113714-FOBSHZ
Date : 23.12.2024



1 Luminaire data

1.4 ANSELL, FEATURE LIGHTING - Rondo AC Su... (AROLEDSSS)

1.4.1 Data sheet

Manufacturer: ANSELL



AROLEDSSS Ceiling mounted luminaire **FEATURE LIGHTING - Rondo AC Surface/Spike Light**

AROLEDSSS

AMENITY

Rondo AC LED Surface/Spike Light

No Driver Required

- High performance LED feature light
- Suitable for surface or spike mounting (spike accessory included)
- Integrated AC LED technology
- 60° beam angle
- Die-cast aluminium construction with textured graphite paint finish
- Pre-wired with 2 metres of H07RN-F cable
- LED lifespan L70 30,000 hours
- Non-dimmable

Luminaire data

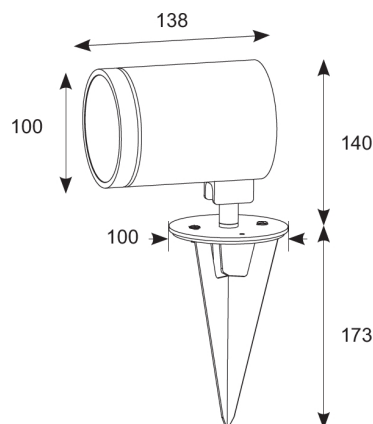
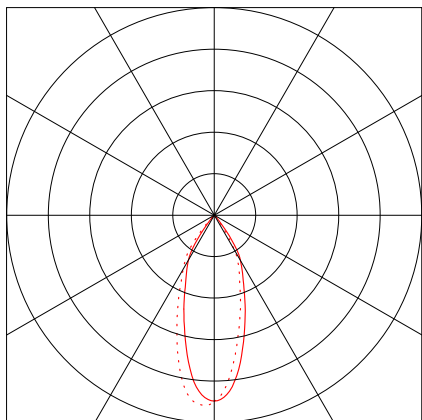
Absolute Photometry

Luminaire efficacy : 74.55 lm/W
Classification : A70 ↓98.2% ↑1.8%
CIE Flux Codes : 98 100 100 98 100
UGR 4H 8H : 15.8 / 18.0
Control gear : Electronic ballast
Power : 20 W
Luminous flux : 1491 lm

Dimensions : Ø70 mm x 138 mm

Equipped with

Quantity : 1
Designation : LED single 830
Colour : 3000K
Socket : --
Colour reproduction : --



Object : The Grove External (SM)
Installation : Proposed Lighting
Project number : QUO-113714-FOBSHZ
Date : 23.12.2024



2 Exterior 1

2.1 Description, Exterior 1

2.1.1 Luminaire data/Room elements

Product data:

Type No.\Make

ANSELL			
1	3 x	Order No.	: AWOLF/MINI/BLK (WW 8W)
		Luminaire name	: BULKHEADS - Wolf Mini Black 3000K
		Equipment	: 1 x LED single 830 8 W / 927 lm
2	9 x	Order No.	: AAVIO/900/BL/WW
		Luminaire name	: BOLLARDS - Avio 3000K
		Equipment	: 1 x LED single 830 21.58 W / 773 lm
3	2 x	Order No.	: AMATBLED - WW
		Luminaire name	: FEATURE LIGHTING - Mattone Uni-Bricklight
		Equipment	: 1 x LED single 830 2 W / 85 lm
4	1 x	Order No.	: AROLEDSSS
		Luminaire name	: FEATURE LIGHTING - Rondo AC Surface/Spike Light
		Equipment	: 1 x LED single 830 20 W / 1491 lm

Object : The Grove External (SM)
 Installation : Proposed Lighting
 Project number : QUO-113714-FOBSHZ
 Date : 23.12.2024

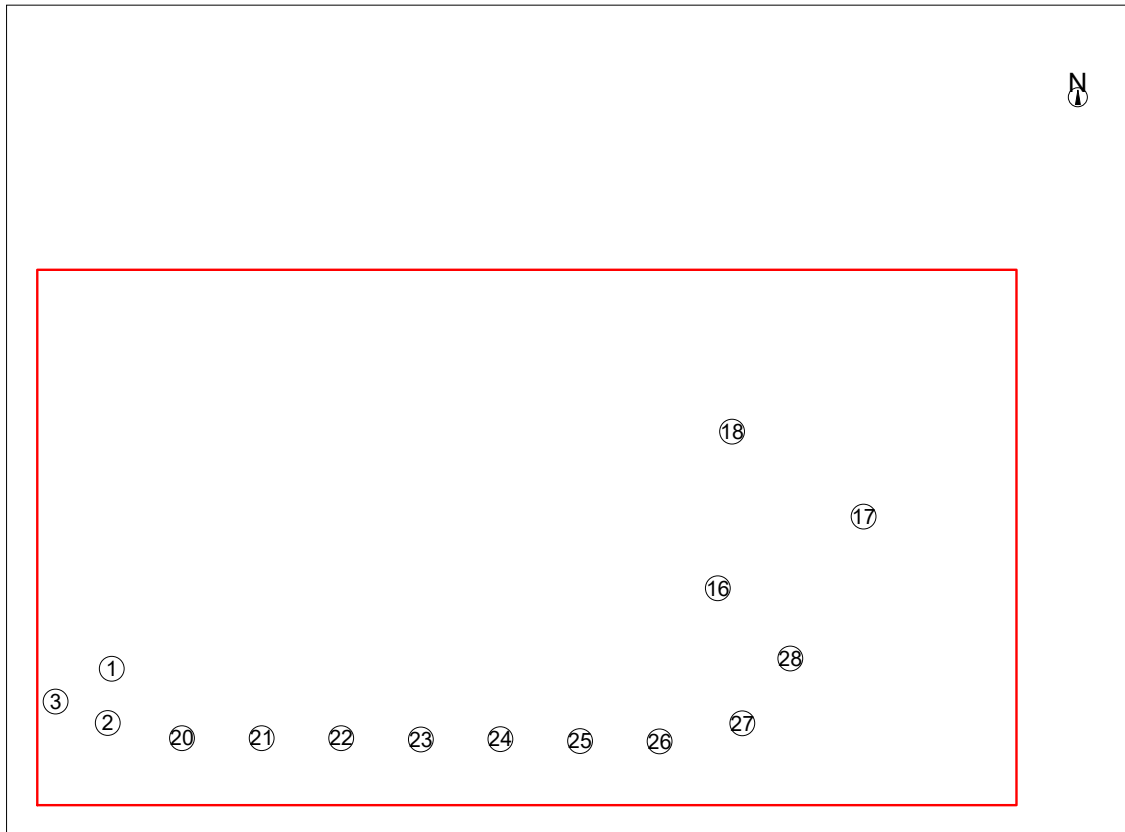


2 Exterior 1

2.1 Description, Exterior 1

2.1.1 Luminaire data/Room elements

Floor with luminaire and sensor positions:



No.	Centre point			Rotation angle			Target coordinates		
	X [m]	Y [m]	Z [m]	Z [°]	C0 [°]	C90 [°]	Xa [m]	Ya [m]	Za [m]
ANSELL BULKHEADS - Wolf Mini Black 3000K AWOLF/MINI/BLK (WW 8W)									
16	74.49	21.58	3.00	270.00	0.00	0.00	74.49	21.58	0.00
17	89.05	28.69	3.00	180.00	0.00	0.00	89.05	28.69	0.00
18	75.93	37.33	3.00	270.00	0.00	0.00	75.93	37.33	0.00
ANSELL BOLLARDS - Avio 3000K AAVIO/900/BL/WW									
20	20.55	6.52	0.92	0.00	0.00	0.00	20.55	6.52	0.00
21	28.55	6.52	0.92	0.00	0.00	0.00	28.55	6.52	0.00
22	36.55	6.52	0.92	0.00	0.00	0.00	36.55	6.52	0.00
23	44.55	6.40	0.92	0.00	0.00	0.00	44.55	6.40	0.00
24	52.55	6.43	0.92	0.00	0.00	0.00	52.55	6.43	0.00
25	60.55	6.24	0.92	0.00	0.00	0.00	60.55	6.24	0.00
26	68.55	6.20	0.92	0.00	0.00	0.00	68.55	6.20	0.00
27	76.86	8.01	0.92	0.00	0.00	0.00	76.86	8.01	0.00
28	81.69	14.52	0.92	0.00	0.00	0.00	81.69	14.52	0.00
ANSELL FEATURE LIGHTING - Mattone Uni-Bricklight AMATBLED - WW									
1	13.50	13.50	0.50	270.00	0.00	-90.00	--	--	--
2	13.09	8.05	0.50	90.00	0.00	-90.00	13.09	8.10	0.50
ANSELL FEATURE LIGHTING - Rondo AC Surface/Spike Light AROLEDSSS									
	Position			Rotation					
	x[m]	y[m]	z[m]	za	xa	ya			

Object : The Grove External (SM)
 Installation : Proposed Lighting
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2 Exterior 1

2.1 Description, Exterior 1

2.1.1 Luminaire data/Room elements

3	7.85	10.20	0.10	0.0°	0.0°	-105.0°
Orientation	Target coordinates			Rotation		
1AROLEDSSS	8.81	10.20	0.36	0.0°	0.0°	-105.0°

Structural elements

Measuring surface

No.	xm[m]	ym[m]	zm[m]	Length	Width	z axis	Rotation angle	
							L axis	Q axis
Ref. plane 1.1	6.00	-0.20	0.00	98.40	53.80	0.00	0.00	0.00
Ref. plane 1	16.51	7.46	0.00	80.48	32.89	0.00	0.00	0.00

Others

No.	xm[m]	ym[m]	zm[m]	Length	Width	z axis	Rotation angle		rho[%]
							L axis	Q axis	
A 1	66.00	24.00	0.00	8.40	9.40	0.00	0.00	0.00	50
A 2	87.70	12.90	0.00	12.80	22.10	0.00	0.00	0.00	50
A 3	85.00	38.70	0.00	8.80	9.70	0.00	0.00	0.00	50
A 4	65.90	34.80	0.00	9.90	9.70	0.00	0.00	0.00	50
A 5	75.30	45.70	0.00	17.50	13.30	90.00	0.00	0.00	50
A 1	13.10	13.70	0.00	1.00	1.00	0.00	0.00	0.00	50
A 2	12.80	7.10	0.00	0.60	1.00	0.00	0.00	0.00	50
A 3	64.20	4.00	0.00	0.60	2.20	0.00	0.00	0.00	50
A 4	64.20	11.40	0.00	0.60	2.20	0.00	0.00	0.00	50

Object : The Grove External (SM)
Installation : Proposed Lighting
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Date : 23.12.2024



2.1 Description, Exterior 1

2.1.2 Floor plan



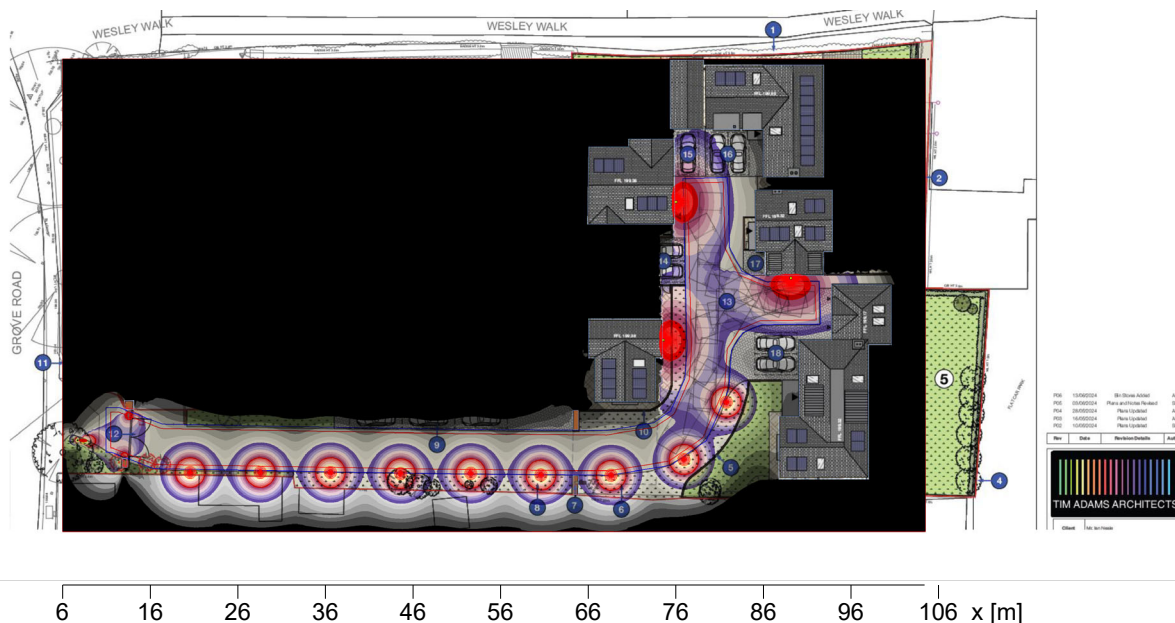
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2 Exterior 1

2.2 Summary, Exterior 1

2.2.1 Result overview, Evaluation area 1



General

Calculation algorithm used
 Maintenance factor

Average indirect fraction
 0.80

Total luminous flux
 Total power
 Total power per area (5293.92 m²)

11399.00 lm
 242.2 W
 0.05 W/m² (2.95 W/m²/100lx)

Evaluation area 1

Reference plane 1.1

Horizontal
 Em
 Emin
 Emin/Em (Uo)
 Emin/Emax (Ud)
 Position

1.55 lx
 0 lx

 0.00 m

Type No.\Make

- | | | | |
|---|-----|----------------|---------------------------------------|
| 1 | 3 x | ANSELL | |
| | | Order No. | : AWOLF/MINI/BLK (WW 8W) |
| | | Luminaire name | : BULKHEADS - Wolf Mini Black 3000K |
| | | Equipment | : 1 x LED single 830 8 W / 927 lm |
| 2 | 9 x | ANSELL | |
| | | Order No. | : AAVIO/900/BL/WW |
| | | Luminaire name | : BOLLARDS - Avio 3000K |
| | | Equipment | : 1 x LED single 830 21.58 W / 773 lm |

Object : The Grove External (SM)
Installation : Proposed Lighting
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2 Exterior 1

2.2 Summary, Exterior 1

2.2.1 Result overview, Evaluation area 1

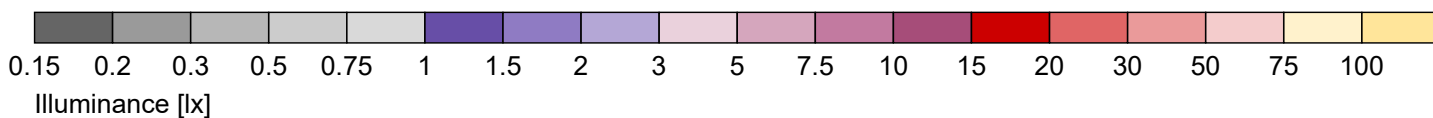
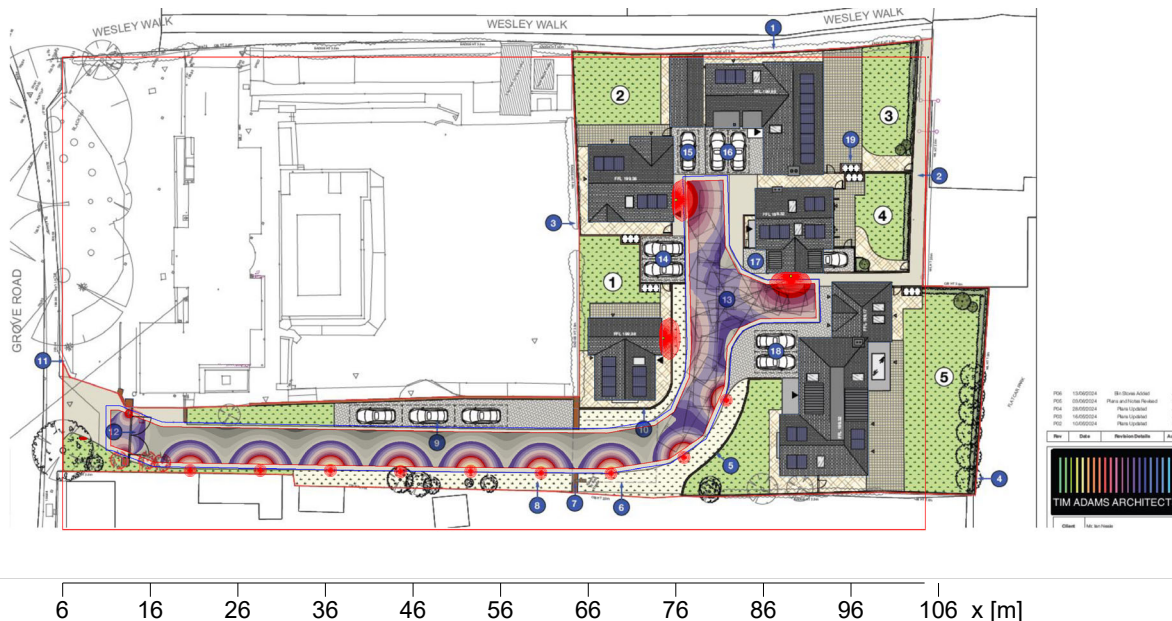
3	2 x	Order No.	: AMATBLED - WW
		Luminaire name	: FEATURE LIGHTING - Mattone Uni-Bricklight
		Equipment	: 1 x LED single 830 2 W / 85 lm
4	1 x	Order No.	: AROLEDSSS
		Luminaire name	: FEATURE LIGHTING - Rondo AC Surface/Spike Light
		Equipment	: 1 x LED single 830 20 W / 1491 lm

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2.2 Summary, Exterior 1

2.2.2 Result overview, Evaluation area 0



General

Calculation algorithm used
 Maintenance factor

Average indirect fraction
 0.80

Total luminous flux
 Total power
 Total power per area (547.46 m²)

3950.00 lm
 109.9 W
 0.20 W/m² (4.07 W/m²/100lx)

Evaluation area 0

Reference plane 1

Horizontal
 Em
 Emin
 Emin/Em (Uo)
 Emin/Emax (Ud)
 Position

4.94 lx
 0.17 lx
 0.03
 0.00
 0.00 m

Type No.\Make

2	5 x	ANSELL	
		Order No.	: AAVIO/900/BL/WW
		Luminaire name	: BOLLARDS - Avio 3000K
3	1 x	Equipment	: 1 x LED single 830 21.58 W / 773 lm
		Order No.	: AMATBLED - WW
		Luminaire name	: FEATURE LIGHTING - Mattone Uni-Bricklight
		Equipment	: 1 x LED single 830 2 W / 85 lm

Lighting projects will be designed to meet European and UK based legislation, as well as CIBSE guidelines, applicable to the location in which the installation is to take place, in additions to any specific client requirements, where appropriate, and all stated illuminance values will have been calculated based upon overall average values, with acceptable uniformity for the individual room reference plane.

Emergency lighting designs will be calculated in accordance with the appropriate legislation applicable to the country of installation, whether that be the current BS EN 1838 and BS EN 50172 standards, the BS5266-1, Code of Practice, which takes the form of guidance and recommendations, or the Irish Standard, I.S.3217.

Consultation between the responsible person, the owner/developer, and/or the occupier of the premises, the architect, the installation contractor, and enforcing authorities, together with the lighting designer, should have been arranged at a very early stage to define the way in which the system is intended to operate, and plans should be made available, to assist with the consultation and the design process.

The UK legislation imposes a duty on persons, including employers and persons with control of the premises to carry out a risk assessment, and take such precautions as to ensure as far as reasonably practicable, the safety of the occupants, including a safe means of escape, along escape routes and through exits to a place of safety.

The emergency lighting needs to be checked and approved by a local fire control officer and approved by the building owner.

In the absence of appropriate criteria, the emergency lighting design does not include a calculation for certain emergency location requirements, such as for call points, fire alarm panels, firefighting equipment and fire extinguisher positions, first aid points, and push-bars, where these locations have not been included on the supplied drawings, resulting in the situation that if increased illumination levels are required, they will not have been included within the design.

In the absence of a Fire Strategy plan, certain assumptions have been made regarding providing the optimum routes to exit, based upon the shortest distances between locations and the final exit. These are to be reviewed on site to verify the accuracy prior to proceeding to order/installation.

As Ansell has not been issued with a risk assessment document, the company cannot accept responsibility or liability for any inaccuracies caused in the emergency lighting design or equipment offered, therefore the emergency design must be accurately checked and verified by a responsible person or building owner/building user to confirm that assumed risk assessments made are deemed to be correct.

All interior spaces of less than 60m² will be assumed as being not of 'high risk', unless the company is in receipt of a copy of the appropriate risk assessment for the spaces under consideration, and therefore as such, the design of emergency lighting will not be included in these areas, at this design stage.

Following the verification process for the emergency lighting design with regard to the information contained within the design fully meeting the specification for the application, it is to be noted that in all circumstances where assumptions used in the emergency lighting calculations are deemed to be incorrect, Ansell must be made aware of this situation immediately, and definitely prior to any order being placed, allowing the company to amend the emergency calculations, based upon the issue of an amended or new risk assessment.



In respect of the content below, the term Ansell Lighting relates to Ansell Electrical Products Ltd, for both UK and International.

Ansell Lighting will at the request of the Purchaser, agree to supply lighting design services, either directly or to a Third Party, so, as to develop a lighting scheme for which Ansell Lighting will make no charge. Ansell Lighting is not under any obligation to provide such services. Where appropriate, the Purchaser shall make all suitable arrangements for Ansell Lighting to have access to the site and shall provide such other assistance as may be deemed necessary to enable the company to provide such lighting design services. Any drawings, plans, computer aided designs, survey reports, specifications & other material arising from the lighting scheme will remain the absolute property of Ansell Lighting.

It is the responsibility of the person specifying the requirements of the request for a lighting design to provide all the required information and detail for the lighting scheme to be undertaken, whether that be, the Architect, the Consulting Engineer, the Building Contractor, the Electrical Contractor, or the Purchaser. In failing to provide all such information, the completed lighting design may not meet the client's requirements or be unable to provide compliance with current legislation. Current legislation considered on lighting schemes, includes (but is not restricted to) Building Regulation Approved Documents, British Standard Publications, European Standards, European Directives, Statutory Instruments, Health & Safety Publications, CIBSE Lighting Guides and other appropriate documents as deemed necessary.

All design criteria used in the lighting project, unless otherwise specified by the Purchaser or Client will have been assumed by the designer. This relates to all information not supplied with the request, but which is required to undertake the calculations in order to achieve the resultant lighting design. This covers all aspects of the design process, including, (but not restricted to) the space(s) dimensions, height, reflectance(s), and maintenance factor, the LED light source(s) their types, wattage(s) and colour temperature(s), the types of luminaire(s) whether that be mains and/or integrated/stand-alone emergency, their mounting height(s), position(s), and orientation(s), the type(s) of LED driver(s), and any luminaire attachments, or other information required that the designer deems necessary for the design to be calculated.

The lighting scheme will be calculated, by computer aided design, (where applicable) and by other means, (where not) so as to achieve certain illumination criteria. Unless, otherwise specified, all values of illumination, uniformity and levels of glare achieved will be based upon those given within the relevant National and International Standards and/or Regulations as well as the CIBSE Lighting Guides. Consideration will be taken to determine an adequate value of illumination for a specific area, such as categorisation of the space, the facilitation of quick and accurate work, the contribution of safety to persons and in creating a good visual environment. Other information not specified will be assumed by the designer.

Ansell Lighting will undertake external lighting schemes for Purchasers which may require planning approval from the local authority in which a lighting scheme is to be installed. It is not the responsibility of Ansell Lighting to seek such planning approval for an installation, however Ansell Lighting can assist, where possible, in providing design information for such an application, in respect of the lighting equipment aspect of the project only. If subsequently, changes to the design are requested, then it is the responsibility of the Purchaser to inform the local authority of such changes and to seek approval of those changes to the planning application.

It is the full responsibility of the purchaser and/or installing electrical contractor to cross-reference all luminaire types and quantities against the relevant computer-generated design and/or layout drawings & supplied quotation to verify that the information supplied by Ansell Lighting is both correct in respect of achieving the solution which meets the received specification and that is acceptable to the person specifying the requirements. Errors and omissions excepted.

If the completed lighting scheme is deficient in any respect, then it is the responsibility of the Purchaser to inform Ansell Lighting at the earliest opportunity, and in all cases, prior to any installation. If, however, the lighting scheme has already been installed, prior to any deficiency being known, then the Purchaser has one month from the date of commencement of operation of the installation, to notify Ansell Lighting in writing of this deficiency, detailing the ways in which the lighting is deficient. If Ansell Lighting receives no such notification within the aforementioned time period, then Ansell Lighting shall be entitled to assume that the lighting scheme meets with the specified requirements. Ansell Lighting must upon receipt of the notification set out above, be allowed permitted access of the premises in question for the purposes of remedying the defect. Ansell Lighting shall be under no obligation to remedy defects in the lighting system which arises from its reliance on the information, specifications or data supplied to the Purchaser.

Ansell Lighting shall not be liable for any business interruption, loss of profits, contracts, goodwill or anticipated savings, loss arising from any Third Party claims or any special indirect or consequential loss (whether or not foreseeable) to the Purchaser / Third Party which may arise as a result of the lighting scheme failing to meet the Purchaser's / Third party's requirements or for problems arising or which may arise as a result of incorrect installation of the goods by or on behalf of the Purchaser / Third Party or arising or which may arise as a result of the Purchaser / Third Party failing to use the goods as specifically recommended by Ansell Lighting for the purposes of the lighting scheme. Save as expressly provided in these conditions all terms, conditions, representations, and warranties (whether implied or not) relating to the sale of goods and/or the supply of services are excluded to the fullest extent permitted by law. The supply of all services and goods to the Purchaser are undertaken within the Terms and Conditions of sale from Ansell Lighting, a copy of which is available upon request.

For and on behalf of Ansell Electrical Products Ltd.