



GENERAL NOTES

- Before construction commences, the site engineer shall ensure that all design information is mutually compatible with all other drawings and documents provided by the overseeing organisation and all drawings and documents are to be read in conjunction with one another.
- In the event of apparent ambiguity or contradiction, SHD Lighting Consultancy Ltd and the overseeing organisation shall be notified immediately.
- SHD Lighting Consultancy Ltd accept no liability in the event of not being notified and where construction work has commenced.
- This lighting design has been prepared in accordance with the HEMSA/HEA Guidance Note - CDM2015 Regulations, Issue 1.1 dated 09/04/15 - Procedure 2 and The Construction (Design and Management) Regulations 2015 - PART 3 Health and safety duties and roles - 9. Duties of designers.

NOTES

- All drawings and documents are to be read in conjunction with one another and are mutually compatible and shall be read as such.
- Any inaccuracies are to be reported to the overseeing organisation immediately.
- Before construction commences, the site engineer shall ensure that all setting out information is mutually compatible with all the drawings and documents provided by the designers.
- The information on this drawing does not account for installation considerations, site conditions or provide any form of risk assessment.
- The planting of trees near to lighting columns is to be avoided as future growth may inhibit lighting levels. Due to the layout of the plots and associated driveways it is inevitable that there will be conflict with proposed landscaping features. Where such instances occur the street lighting column locations will take precedence in order to satisfy the requirements of the British Standard.
- The calculation shown by this drawing assumes that the whole area being considered is in the same plane, i.e. there are no changes in gradient or elevation and no account has been taken for the blocking effect caused by buildings, trees, etc.
- Final lighting unit positions shall be agreed onsite with the overseeing organisation.
- Lighting unit foundations shall be designed in accordance with the manufacturer datasheet's for the columns and soil types present.

STATUTORY SERVICE NOTES

- Current statutory service record plans should be obtained by the contractor / overseeing organisation before the commencement of any street lighting installation or removal works.
- It should be assumed by the contractor that not all services have been identified during the design period. It is the responsibility of the contractor to ensure that all unidentified services are carefully located and reported.
- The contractor shall identify the location of any overhead electrical or communication equipment prior to the undertaking of any onsite works. Should the presence of such equipment be identified, the contractor shall consult with the relevant statutory undertaker for further guidance.
- Installation and Removal works should be carried out in accordance with Energy Network Association Technical Specification 43-8, Electricity at Work Regulations 1989, Construction Design and Management (CDM) 2015 & G39/1 and all other relevant Health and Safety Executive regulations.
- All works in the vicinity of any overhead cables shall conform to the requirements of Health and Safety Executive, Guidance Note GS6 "Avoidance of danger from overhead power lines"
- All works in the vicinity of underground mains or cables shall conform to the requirements of Health and Safety Executive, Health and Safety Guidance HGS47 "Avoiding danger from underground services" and any additional requirements specified by the relevant undertaker.
- The contractor will be responsible for liaison with the undertakers and for programming the agreed protection and / or diversion works to any statutory undertakers apparatus into the overall works programme

LIGHTING CLASSIFICATION

This lighting design has been produced in accordance with:
BS 5489-1:2020, CEN/TR 13201-1:2014, BS EN 13201-2:2015
& BS EN 12464-2 :2014 outdoor lighting documents and guidelines.

Lighting classification: BS 5489-1: 2020, Table 4 &
BS EN 12464-2: 2014, Table 5.9

Maintained lighting levels for outdoor car parks.

Light traffic: parking areas of shops, terraced & apartment houses, cycle parks.

Minimum maintained average illuminance (Eav): >5.00 lux
Lighting uniformity (Emin/Eav) > 0.25 (25%)

The details provided on this drawing are subject to comments by all the relevant approving authorities or overseeing organisation. No construction works shall take place until technical approval has been obtained by the approving authority or overseeing organisation.

It is to be understood that these drawings and the information shown are preliminary only and shall not be used for construction. Should the contractor commence work on site prior to obtaining technical approval, then it is entirely at their own risk and no liability shall be accepted by SHD Lighting Consultancy Ltd.



Proposed galvanised tubular steel lighting column of 6.0 metre nominal height with a planted base with glass flake root protection supplied by Mallatite, CU Phosco, Valmont Stainton, Fabrikat or similar.	
Column to be manufactured to: EN 40, BS EN 1461 & BS 5649 standard and supplied in factory applied black (RAL 9005) paint finish.	
Luminaire:	Acrospire Defender (Black finish)
Mounting Type:	Post top mounted
Manufacturer Ref:	GFS Defender 8w T3
Lumen Output:	1.34klm
Luminaire Wattage:	8w
Colour Temperature:	Warm White (3000k)
Luminaire Tilt Inclination:	0°
Luminous Intensity:	G3
Control Gear:	Integral driver
Control Type:	2 x PIR motion sensors with repeat trigger feature, <15m detection zone
	Activates for 30 seconds
Supply:	None required

UNIT IDENTIFICATION KEY:
PR** Proposed private column identification number

ISOLUX CONTOUR KEY:
0.20 Isolux contour line
0.60 Isolux contour line
1.00 Isolux contour line
2.00 Isolux contour line



EXAMPLE IMAGE: ACROSPIRE DEFENDER SOLAR LUMINAIRE



OPTIONAL SIDE MOUNTED SOLAR PANEL.
ADDING EXTRA SOLAR PANELS CAN ASSIST IN ENSURING BATTERIES REMAIN FULLY CHARGED DURING WINTER MONTHS.

R0	INITIAL DESIGN FOR REVIEW AND COMMENT	01/04/2023	SRH
REV	DESCRIPTION	DATE	BY
info@shdlighting.co.uk 07834 490 192 www.shdlighting.co.uk			
SCHEME:	OFF ARLECDON ROAD, CUMBRIA		
DRAWING:	PRIVATE LIGHTING DESIGN		
CLIENT:	NIGEL KAY HOMES LTD		
DRAWING NUMBER:	SHD091-SHD-HLG-ARLECDON-ED-Lighting Layout.RD	DRAWN:	SRH
	SHEET 1 OF 1	CHECKED:	SRH
CONTRACT NUMBER:	SHD961	APPROVED:	
	DATE: 01/04/2023	REVISION:	R0
PRELIMINARY DESIGN - NOT FOR CONSTRUCTION			