

- 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
 - 2. In the event of apparent ambiguity or contradiction, SHD Lighting Consultancy Ltd and the overseeing organisation shall be notified
- 3. SHD Lighting Consultancy Ltd accept no liability in the event of not
- 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.
- All works are to be carried out in accordance with the current
- The information on this drawing does not account for installation considerations, site conditions or provide any form of risk
- 3. No account is taken for the blocking effect caused by
- 4. 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
- 5. Column positions indicated upon this drawing may change without prior or additional notice due to local site or environmental constraints subject to designers approval.
- 6. Any inaccuracies are to be reported to the overseeing organisation
- 7. The contractor shall liaise with the Distribution Network Operator in relation to the programming and coordination of any works associated with the connection and disconnection of street lighting
- 8. The use of Independent Distribution Network Operator's (IDNO's) is permitted. Any chosen IDNO shall have a Service Level Agreement in place with Cumberland Council prior to adoption of the new
- 9. The contractor shall provide Cumberland Council street lighting department with the name, address and emergency contact details
- 10. IDNO contact details shall also be stored inside the base compartment of each lighting column via means of an identification
- 11. Any existing trees are to be cutback, removed or relocated elsewhere to avoid interference with the street lighting luminaire or
- 12. The planting of trees near to lighting columns is to be avoided as future growth may inhibit lighting levels.
- 13. Horizontal clearance for the maximum tree canopy shall be greater
- 14. Final lighting column identification numbers shall be agreed with the Cumberland Council street lighting engineer.
- 15. The Contractor shall provide the Cumberland Council with as-built drawings, test certificates and column and lantern data sheets in
- accordance with Cumberland Council street lighting specification. 16. Lighting column foundations shall be designed in accordance with the manufacturer data sheets for the columns and soil types present
- (see also Cumberland Council street lighting specification). 17. The minimum distance for a lighting column to be erected from the
- kerb face in a service strip shall be 1.0 metres.
- 18. The developer will be required to pay any energy liability charges with their electricity supplier until the date of formal adoption of the
- 19. The developer will be responsible, unconditionally, for the condition, operation and any risk or liability of all the highways electrical equipment on all approved works until the date of formal adoption of the street lighting equipment.
- STATUTORY SERVICE NOTES
- 1. Current statutory service record plans should be obtained by the contractor / overseeing organisation before the commencement of any street lighting installation or removal works.
- 2. 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
- 3. 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
- 4. 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
- 5. All works in the vicinity of any overhead cables shall conform to the requirements of Health and Safety Executive, Guidance Note GS6
- 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
- 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

LIGHTING CLASSIFICATION

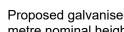
This lighting design has been produced in accordance with: BS 5489-1:2020, CEN/TR 13201-1:2014 & BS EN 13201-2:2015 outdoor lighting documents and guidelines.

Lighting classification: P5 (BS 5489-1:2020, Table A.5)

Minimum average illuminance (Eav): >3.00 lux <4.50 lux Minimum illuminance (Emin): >0.60 lux Lighting Uniformity (Emin/Eav): >0.20 (>20%)

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Proposed galvanised heavy duty steel lighting column of 6.0 metre nominal height with a planted base as supplied by Mallatite to Cumberland Council street lighting specification.

Thorn Isaro Pro Small 12LED 500mA

Luminaire Type: Post top mounted at 0° tilt Mounting Type:

Lumen Output: 2.58klm 42 0020 0000 100 (20w) Charge Code:

Colour Temperature: Warm White (2700k) Luminous Intensity: Control Gear:

DALI enabled driver Lucy Zodion SS9 5lux (1:1 ratio) Control Type: PECU mounted in 7 pin NEMA socket

> Adaptive NightTune Dusk until 21:00: 100% output 2700k

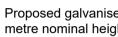
> > 21:00 until 00:00: 50% output 2400k 00:00 until 05:00: 50% output 2200k 05:00 until 06:00: 50% output 2400k 06:00 until Dawn: 100% output 2700k

IDNO electrical supply connection Primary Isolator: IDNO approved double pole isolator

flexible 'artic' cable

Secondary Isolator: Tofco F144DP isolator Supply cable between cut-out and Internal Wiring: luminaire shall be 1.5mm² 3core

Perpendicular to kerb facing away **Door Orientation:** from oncoming vehicles



Charge Code:

Control Type:

Supply:

Proposed galvanised heavy duty steel lighting column of 6.0 metre nominal height with a planted base as supplied by Mallatite to Cumberland Council street lighting specification.

Thorn Isaro Pro Small 12LED 350mA Luminaire Type: Mounting Type: Post top mounted at 0° tilt Lumen Output: 1.87klm

Colour Temperature: Warm White (2700k) Luminous Intensity:

Control Gear: DALI enabled driver

Lucy Zodion SS9 5lux (1:1 ratio) PECU mounted in 7 pin NEMA socket

Adaptive NightTune

42 0015 0000 100 (15w)

Dusk until 21:00: 100% output 2700k 21:00 until 00:00: 50% output 2400k **Dimming Profile:** 00:00 until 05:00: 50% output 2200k 05:00 until 06:00: 50% output 2400k

06:00 until Dawn: 100% output 2700k

IDNO electrical supply connection Primary Isolator: IDNO approved double pole isolator

Secondary Isolator: Tofco F144DP isolator Supply cable between cut-out and Internal Wiring: luminaire shall be 1.5mm² 3core

> flexible 'artic' cable Perpendicular to kerb facing away

> > from oncoming vehicles

1m² concrete hard standing around base compartment of

UNIT IDENTIFICATION KEY:

proposed lighting column.

Door Orientation:

LC** Proposed lighting column identification number

ELECTRICAL CONNECTION TYPE:

IDNO Independent distribution network operator connection

ISOLUX CONTOUR KEY (AT GROUND LEVEL):

0.20 Isolux contour line 0.60 Isolux contour line

2.00 Isolux contour line

1.00 Isolux contour line

R0 INITIAL DESIGN FOR REVIEW AND COMMENT 05/02/2025 SRH DATE BY

ULDALE VIEW, EGREMONT SCHEME: S38 STREET LIGHTING DESIGN DRAWING: GLEESON HOMES (CUMBRIA) CLIENT:

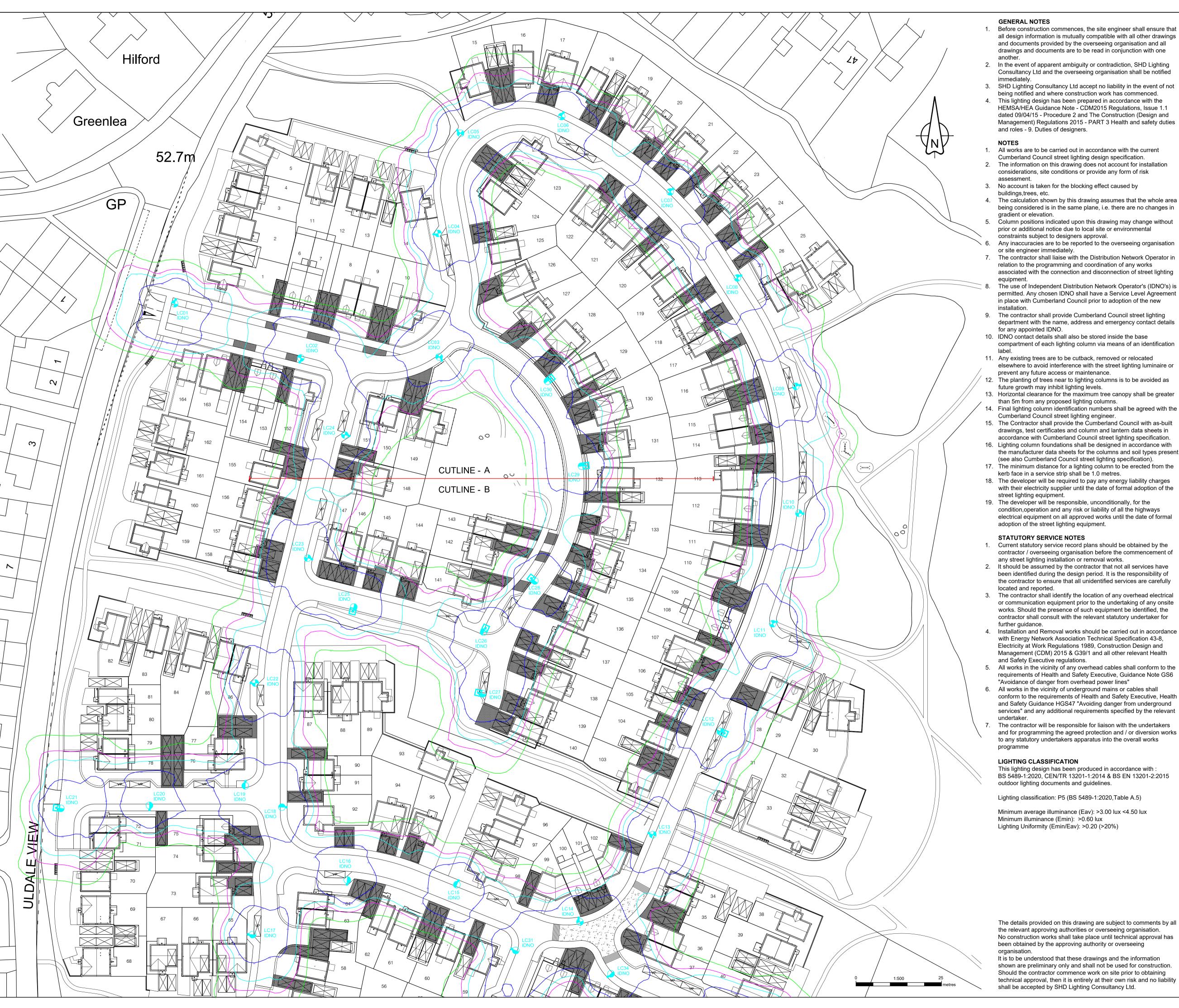
SHD1979-SHD-HI G-LII DA-DR-EO-Lighting Layout-R0 DRAWING CHECKED: NUMBER: SHEET 1 OF 2 SCALE @ A1 1:500 CONTRACT

R0 PRELIMINARY DESIGN - NOT FOR CONSTRUCTION

REVISION:

SHD1979

NUMBER:



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 - compartment of each lighting column via means of an identification
 - elsewhere to avoid interference with the street lighting luminaire or
 - 12. The planting of trees near to lighting columns is to be avoided as future growth may inhibit lighting levels.
 - 13. Horizontal clearance for the maximum tree canopy shall be greater than 5m from any proposed lighting columns.
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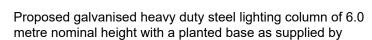
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Lighting classification: P5 (BS 5489-1:2020, Table A.5)

Minimum average illuminance (Eav): >3.00 lux <4.50 lux Minimum illuminance (Emin): >0.60 lux Lighting Uniformity (Emin/Eav): >0.20 (>20%)

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Charge Code:

Control Gear:

Control Type:

metre nominal height with a planted base as supplied by Mallatite to Cumberland Council street lighting specification.

Thorn Isaro Pro Small 12LED 500mA Luminaire Type:

Mounting Type: Post top mounted at 0° tilt

Lumen Output: 2.58klm 42 0020 0000 100 (20w)

Colour Temperature: Warm White (2700k) Luminous Intensity:

> Lucy Zodion SS9 5lux (1:1 ratio) PECU mounted in 7 pin NEMA socket

> > Adaptive NightTune

DALI enabled driver

Dusk until 21:00: 100% output 2700k 21:00 until 00:00: 50% output 2400k Dimming Profile: 00:00 until 05:00: 50% output 2200k

05:00 until 06:00: 50% output 2400k 06:00 until Dawn: 100% output 2700k IDNO electrical supply connection

Supply: IDNO approved double pole isolator Primary Isolator: Secondary Isolator: Tofco F144DP isolator

Supply cable between cut-out and Internal Wiring: luminaire shall be 1.5mm² 3core flexible 'artic' cable

Perpendicular to kerb facing away **Door Orientation:** from oncoming vehicles

Proposed galvanised heavy duty steel lighting column of 6.0

Lumen Output:

metre nominal height with a planted base as supplied by Mallatite to Cumberland Council street lighting specification.

Thorn Isaro Pro Small 12LED 350mA Luminaire Type: Mounting Type: Post top mounted at 0° tilt

1.87klm

42 0015 0000 100 (15w) Charge Code: Colour Temperature: Warm White (2700k)

Luminous Intensity: Control Gear: DALI enabled driver

Lucy Zodion SS9 5lux (1:1 ratio) Control Type: PECU mounted in 7 pin NEMA socket

Adaptive NightTune Dusk until 21:00: 100% output 2700k 21:00 until 00:00: 50% output 2400k **Dimming Profile:** 00:00 until 05:00: 50% output 2200k

05:00 until 06:00: 50% output 2400k 06:00 until Dawn: 100% output 2700k IDNO electrical supply connection

Primary Isolator: IDNO approved double pole isolator Secondary Isolator: Tofco F144DP isolator

Supply cable between cut-out and Internal Wiring: luminaire shall be 1.5mm² 3core flexible 'artic' cable

Perpendicular to kerb facing away Door Orientation: from oncoming vehicles

1m² concrete hard standing around base compartment of proposed lighting column.

UNIT IDENTIFICATION KEY:

LC** Proposed lighting column identification number

ELECTRICAL CONNECTION TYPE:

IDNO Independent distribution network operator connection

ISOLUX CONTOUR KEY (AT GROUND LEVEL):

0.20 Isolux contour line 0.60 Isolux contour line

1.00 Isolux contour line 2.00 Isolux contour line

R0 INITIAL DESIGN FOR REVIEW AND COMMENT

ULDALE VIEW, EGREMONT SCHEME:

NUMBER:

S38 STREET LIGHTING DESIGN DRAWING: GLEESON HOMES (CUMBRIA) CLIENT:

SHD1979-SHD-HLG-ULDA-DR-EO-Lighting Layout-R0 DRAWING NUMBER: CHECKED: SHEET 2 OF 2 SCALE @ A1 CONTRACT SHD1979

REVISION:

PRELIMINARY DESIGN - NOT FOR CONSTRUCTION