



OCSC

O'CONNOR · SUTTON · CRONIN
MULTIDISCIPLINARY CONSULTING ENGINEERS

C1106: **KNOCHNAGREE SITE**

SITE LIGHTING REPORT



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SITE LIGHTING REPORT

**For
CORK COUNTY COUNCIL**

9 September 2024

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DOCUMENT CONTROL & HISTORY

| | | | | | | | | | |
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1 INTRODUCTION

This report outlines the design criteria and considerations for the proposed residential development at Knocknagree, incorporating existing lighting at the site.

It has been prepared in conjunction with a planning application to Cork County Council.

The report considers the preliminary lighting design as developed by O'Connor Sutton Cronin (OCSC) and should be read in conjunction with OCSC drawing C1106 -OCSC-XX-EL-YL-E-0001 Proposed Site External Lighting Layout.

The external lighting within the proposed development area will be managed and maintained by the Cork County Council. The drawings and calculations submitted are to demonstrate the lux level averages across the development are meeting the standard set out by Cork County Council for road lighting.

The predicted performance of the external lighting installations has been assessed in detail using Lighting Simulation software.

Standards and guidelines in relation to the lighting design are:

- BS 5489-1-2020 Design of road lighting of roads and public amenity areas. Code of practice (Published on : 31st May 2020 by BSI Standards Limited 2020)
- I.S. EN 13201-2-2015 Road lighting - Performance requirements (Published on: 31st Jan 2016 by BSI Standards Limited 2016)
- Cork County Council document on Public Lighting Installations in Residential and Industrial Areas, (Published on: January 2023 by Fingal County Council)
- Electrical work shall also comply with the requirements of ESB Networks' National Code of Practice for Customer Interface.

The electrical services for the external lighting installation will be designed in accordance with NSAI National Rules for Electrical Installations IS10101.

2 PROPOSED DEVELOPMENT

The proposed development is located at Knocknagree, Co. Cork and comprises a 7 unit housing development with new roads and footpaths. The project is currently under design design, proceeding to Tender

The site is located on the L1108 on the east side of the village approximately 500m from the village. The site was serviced several years ago and is currently serviced with access roads, ESB, Eir, foul, storm and public lighting. The site is currently not developed, no dwellings on the site.

The site is owned by Cork County Council.

The existing 8 No public lighting are out of commission/nonfunctioning, a public lighting design has been developed that has incorporate the existing 8 No road lights and infrastructure with the proposed development and New Lights and poles to service the proposed new site layout.

Prior to Installation the contractor shall visit site and determine the condition of the existing infrastructure of the existing 8 No road lighting poles, wiring and lighting mini pillar. It is proposed to utilise the existing road lighting infrastructure for the existing 8 No lights and replace the existing SON Lamps for New LED fittings as per the Lighting Design Report attached.

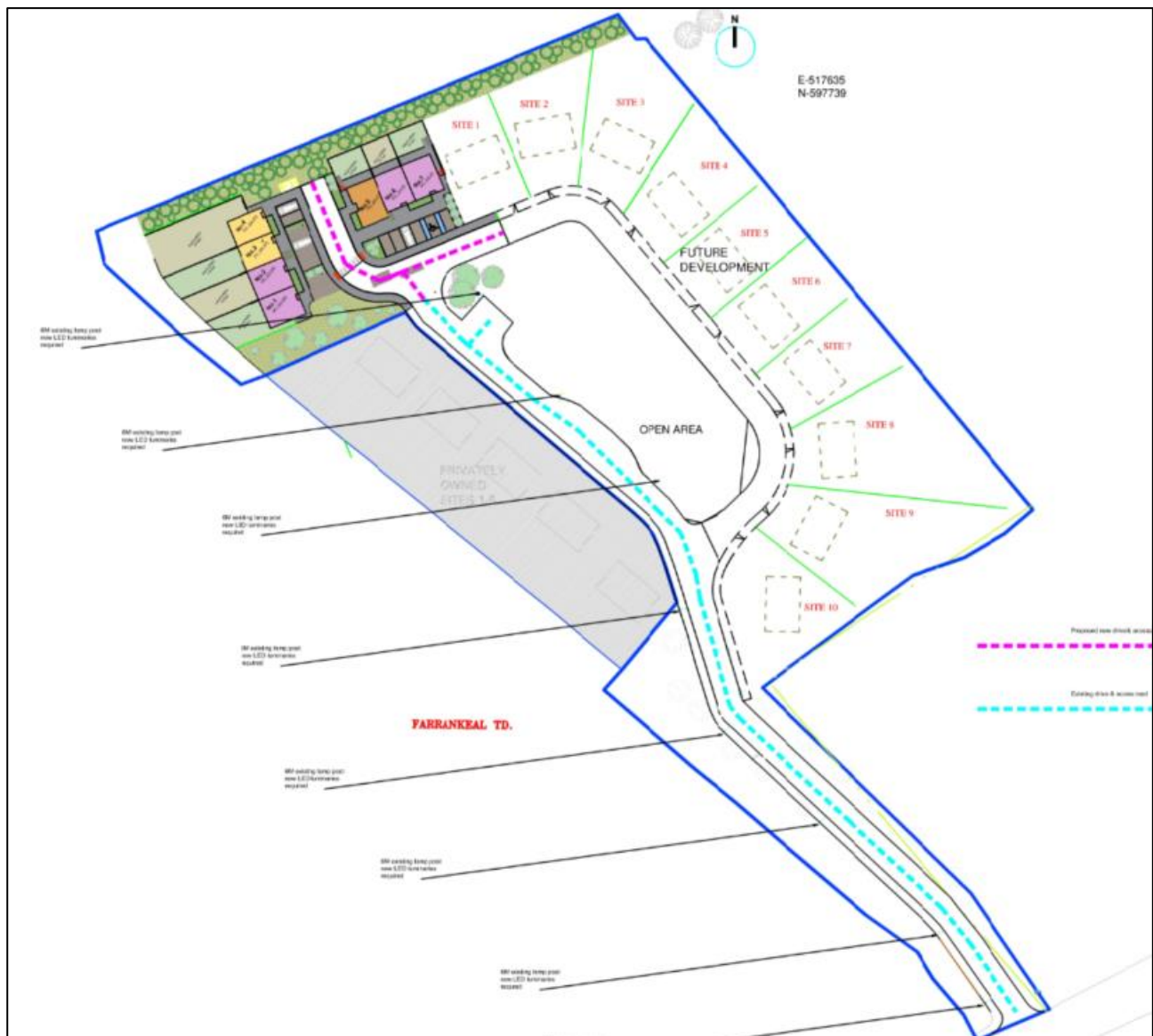


Figure 1 - Proposed site plan
(DR-CCC-A-SK-101)

3 THE DESIGN

3.1 EXTERNAL LIGHTING

Please refer to Appendix A for site lighting layout. Drg No 1106-OCSC-XX-00-EL-YL-0001

The external lighting has been designed in the best possible way for visual comfort, biodiversity, and suitability, and shall be specified in accordance with the appropriate maintained illuminance levels recommended by the following documents:

- EN13201-2-2015 Lighting Classes for external lighting. (Published on: 1st Jan 2015 by BSI Standards Limited 2015)
- BS EN 12464-2 Outdoor workplaces (Published on: 31st Jan 2014 by BSI Standards Limited 2014)
- BS 5489-1-2020 Design of road lighting of roads and public amenity areas. Code of practice (Published on : 31st May 2020 by BSI Standards Limited 2020)
- BS EN 13201-2 Lighting Classes for external lighting. (Published on: 31st Jan 2016 by BSI Standards Limited 2016)
- CIBSE Lighting Guide 6 - The Outdoor environment (Published on: Jan 2016 by CIBSE publications)
- Institute of Lighting Professionals (ILP) Guidance notes for the reduction of obtrusive light. (Published on: Jan 2020 by Institution of Lighting Professionals publications)
- Cork County Council document Public Lighting Manual, (Published on: January 2023 by Cork County Council)
- FCC Public Lighting Specification
- Guide on the limitation of the effects of obtrusive light from outdoor lighting installations, 2nd edition
-

Lighting design shall ensure that:

- All night-time lighting is concentrated in the appropriate areas
- upward lighting is minimised
- light pollution is minimised
- energy consumption is minimised
- To enhance security

3.2 BIODIVERSITY STRATEGY

Increasing local biodiversity and ecology with native tree planting and wildlife habitat creation is a priority for this development. It is widely recognised that artificial lighting can have detrimental effects on nocturnal animals and in particular bats. Therefore, the development lighting strategy has considered the following: -

- **Do not over light** - Where relevant guidance gives a range of illumination levels the lowest one which is appropriate shall be utilised. No lighting is directly at the open water or trees or the canal frontage.
- **Luminance distribution** - The spread of light shall be kept near to or below the horizontal where possible.

- **Minimise UV light** - Selected luminaires shall emit minimal UV light. This can be achieved by selecting LED luminaires.
- **Colour temperature of lamps** - All light sources shall be 3000K maximum.
- **Lighting controls** – Consideration shall be made to when lighting is operational to reduce detrimental impacts on nocturnal animals.
- In compliance with Bat Conservation Ireland guidelines the following results were achieved:
 - ❖ Guidance Notes for the Reduction of Obtrusive Light GN01 (Institute of Lighting Professionals, 2011)
 - ❖ Bats & Lighting - Guidance Notes for Planners, Engineers, Architects and Developers (Bat Conservation Ireland, December 2010)-referred to above.
 - ❖ Bats and Lighting in the UK – Bats and the Built Environment Series (Bat Conservation Trust UK, January 2008).

3.3 LIGHTING CLASSES

The appropriate lighting classes shall be in accordance with BS EN 13201-2: 2015 (Table 3) "Lighting Classes for External Lighting" detailed below:

| Class | Horizontal Illuminance | |
|--------|---|---|
| | Maintained average illuminance. (lx) * | Minimum maintained illuminance (lx) |
| P1 | 15 | 3 |
| P2 | 10 | 2 |
| P3 | 7.5 | 1.5 |
| P4 | 5 | 1 |
| P5 | 3 | 0.6 |
| P6 | 2 | 0.6 |
| P7 | Not determined | Not determined |
| * – | To provide for uniformity, the actual value of the maintained average illuminance shall not exceed 1,5 times the minimum value indicated for the class. | |

Table 1 - Lighting Classes for external lighting

The following design parameters and criteria were used in the design of the external lighting.

Part M and BS8300 guidelines are considered for the stairs/ramps and entrances to the site.
CIBSE guidelines considered while installing and designing the strategy lighting for areas like roadways.
Minimum lux level to be used or as required by Health & Safety especially along the perimeters.

Lighting Classification

The designated lighting classifications are as follows

- P3 – Residential Roadways

3.4 BASIS OF DESIGN

The lighting design has been designed to reflect a residential development. Figure 2 below is the proposed typology lighting strategy plan for the development.

The Red outline indicates the existing road included in the overall design.

The Magenta outline indicated the new proposed road in the overall design.

The Green circles indicate where the existing lamps are located.

The Blue circles indicate where the new lighting pole and lamps are to be located.



Figure 2 - Proposed Typology Lighting Plan

| Zone Type (Based on development typology plans) | Allocated Class (Based on CEN/TR 13201-1:2015) |
|--|---|
| Zone 1 (Residential Roads) | P3 |

Figure 3 - Lighting classes for external lighting

To provide for uniformity, the actual value of the maintained average illuminance shall not exceed 1.5 times the minimum illuminance value indicated for the class.

The overall uniformity (Uo) is calculated and measured according to EN 13201-3 and EN 13201-4.

Calculations were carried out in accordance with BS 5489: 2020 using the "Lighting Reality" suite of Software

3.5 LUMINAIRES

The following luminaires have been used as the basis of this design:

- Fitting A Thorn R2L2-S EWC 24LED 350mA @ CLO 3000k 25w
- Fitting B Thorn R2L2-S ES 12 LED 150mA @ CLO 3000k 13w

All luminaires are 3000K colour temperature. The desired lighting design may also be achieved by other luminaires and the final lighting installation may use other luminaires, with modified positioning and aiming to achieve the same result and prevent upward light spill. Manufacturers' stated performance characteristics are subject to change.

3.6 LIGHT SPILL

The lighting calculations were conducted to examine the light spill from the fittings. It was concluded that the levels were appropriately low. As an E2 zone a Min lux average level of 1.5 lux would be considered appropriate.

Figure 4

| Table 1 – Environmental lighting zones | | |
|--|----------------------------|--|
| Zone | Lighting Environment | Examples |
| E0 | Intrinsically dark | UNESCO Starlight Reserves, IDA Dark Sky Parks, Major optical observatories |
| E1 | Dark | Relatively uninhabited rural areas |
| E2 | Low district brightness | Sparsely inhabited rural areas |
| E3 | Medium district brightness | Well inhabited rural and urban settlements |
| E4 | High district brightness | Town and city centres and other commercial areas |
| NOTE Regardless of the level of urban development, the recommendations for Environmental Zone 1 or 0, should be followed for all locations within 100 km of a major optical astronomy observatory. Regardless of the level of urban development, the recommendations for Environmental Zone 2 (or better) should be followed for locations within 30 km of an operating urban optical astronomy observatory, and for locations between 100 km and 300 km from a major optical astronomy observatory. | | |

Table 1 CIE 150: 2017(Guide on the Limitation of the Effects of Obtrusive Light from Outdoor Lighting Installations, 2nd Edition)

Figure 5

| Table 2 – Maximum values of vertical illuminance on properties | | | | | | |
|--|------------------------|---------------------|-----------|------|-------|-------|
| Light Technical Parameter | Application Conditions | Environmental Zones | | | | |
| | | E0 | E1 | E2 | E3 | E4 |
| Illuminance in vertical plane (E_v) | Pre-curfew | n/a | 2 lx | 5 lx | 10 lx | 25 lx |
| | Post-curfew | n/a | < 0,1 lx* | 1 lx | 2 lx | 5 lx |
| * If the installation is for public (road) lighting then this value may be up to 1 lx. | | | | | | |

Table 2 CIE 150: 2017(Guide on the Limitation of the Effects of Obtrusive Light from Outdoor Lighting Installations, 2nd Edition)

4 RESULTS

Figure 6 indicates the predicted illumination levels as indicated by the contour lines.

See attached Lighting Reality Contours layout "C1106 Knocknagree Co Cork Lighting Contours" for detailed results.

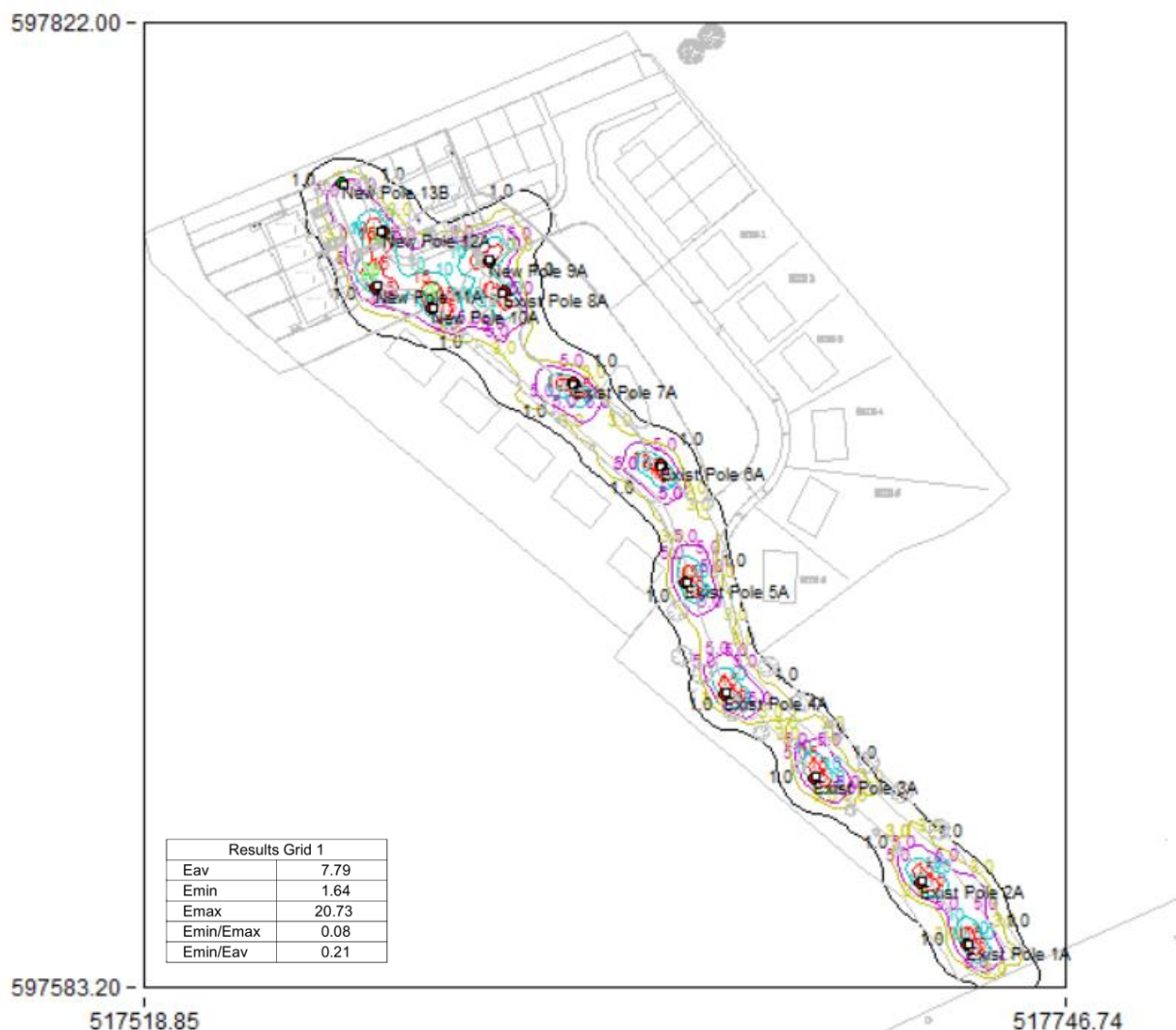


Figure 6 – Results for residential road

From the Lighting Report in Appendix B, the Results for the overall residential road lighting layout are as per the following:

Grid 1

The average "7.79 lux level maintained" and a "minimum of 1.64 lux" on all roads and pathways throughout the development in line with P3 class Road while maintaining Minimum uniformity @ 0.21

The above result is from the attached lighting report located in Appendix B, The result is compliant with a P3 Road as set out in 5489:2020 using the lamps and standards as scheduled in the lighting report.

Appendix A **SITE LIGHTING DRAWING**

Refer To Drawing 1106-OCSC-XX-00-EL-YL-0001 Attached

Appendix B **LIGHTING CALCULATION REPORT**

DATE: 27 September 2024
DESIGNER: J Farrelly MSc CEng MIEI
PROJECT No: C1106
PROJECT NAME: Knocknagree Co Cork Rev 03

**LIGHTING
REALITY**

| |
|---|
| -----Lighting |
| Design To BS5489: 2020 |
| ----- |
| ResidentialEstate: ILP GP03 - E2 Rural Normal (B) - Traffic Equivalent To Housing Estate - P3 Maintained light Level For P3 = 7.5 -11.25 Lux @1.5min & Unif 0.2 |
| ----- |
| MaintenanceFactor (MF): Luman Depreciation Factor= 0.9 BS 5489:1 Table B1 @ 72Mths Cleaning =0.84 MF = 0.76 / MF Applied @ Nominal CCC Min of 0.76 |
| ----- |

Fitting A Thorn R2L2-S EWC 24LED 350mA @ CLO 3000k 25w

Outreach @ 0.5m Indicates Post Top Fitting

Exist Pole - Indicates

**Contractor To Inspect and report on Existing Pole & Cabling on site
for Re-Use in the new development layout.**

- i) Contractor To Use Existing Light Pole**
- ii) Contractor To Replace Existing Lamp For New LED Fitting**
- III) Contractor To Inspect Existing Pole & Cabling for Re-Use**

PREPARED BY: OCSC
North Point Buisness Park
New mallow Road
Cork T23 AT2P
Ph: 021-235 5816
Email: cork@ocsc.ie

Layout Report

General Data

Dimensions in Metres Angles in Degrees
Grid Origin 517518.8m x 597583.2m
Area 227.9m x 238.8m
Sample Spacing 1.50m x 1.49m

Luminaires



Luminaire A Data

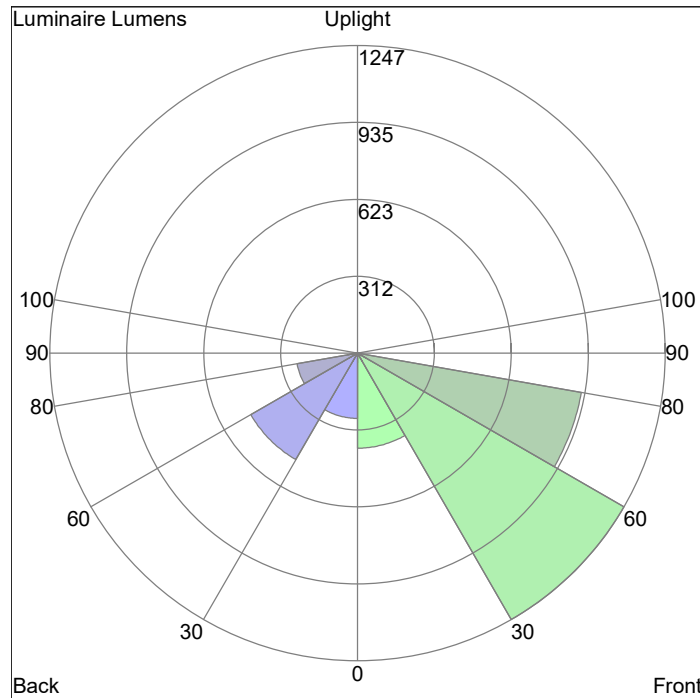
| | |
|----------------------|---|
| Supplier | Thorn |
| Type | R2L2 S - 24 x Warm White 3000K LED CRI 70 350mA - EWC Optic |
| Lamp(s) | LED_3000K |
| LampFlux(klm)/Colour | 3.59 3000/70 |
| File Name | RS24L35EWC730G36_DC.LDT |
| Maintenance Factor | 0.76 |
| Imax70,80,90(cd/klm) | 716.1, 93.0, 0.0 |
| No. in Project | 13 |

Layout

| ID | Type | X | Y | Height | Angle | Tilt | Cant | Out-reach | Target X | Target Y | Target Z |
|--------------|------|-----------|-----------|--------|--------|------|------|-----------|----------|----------|----------|
| Exist Pole 1 | A | 517722.37 | 597593.80 | 6.00 | 30.00 | 0.00 | 0.00 | 0.50 | | | |
| Exist Pole 2 | A | 517711.08 | 597609.26 | 6.00 | 48.00 | 0.00 | 0.00 | 0.50 | | | |
| Exist Pole 3 | A | 517684.91 | 597635.03 | 6.00 | 43.00 | 0.00 | 0.00 | 0.50 | | | |
| Exist Pole 4 | A | 517662.38 | 597655.80 | 6.00 | 43.00 | 0.00 | 0.00 | 0.50 | | | |
| Exist Pole 5 | A | 517652.45 | 597683.55 | 6.00 | 12.00 | 0.00 | 0.00 | 0.50 | | | |
| Exist Pole 6 | A | 517646.88 | 597712.55 | 6.00 | 223.00 | 0.00 | 0.00 | 0.50 | | | |
| Exist Pole 7 | A | 517624.84 | 597732.50 | 6.00 | 232.00 | 0.00 | 0.00 | 0.50 | | | |
| Exist Pole 8 | A | 517607.38 | 597755.84 | 6.00 | 228.00 | 0.00 | 0.00 | 0.50 | | | |
| New Pole 9 | A | 517607.12 | 597764.09 | 6.00 | 115.00 | 0.00 | 0.00 | 0.50 | | | |
| New Pole 10 | A | 517589.94 | 597751.99 | 6.00 | 26.00 | 0.00 | 0.00 | 0.50 | | | |
| New Pole 11 | A | 517574.39 | 597781.87 | 6.00 | 202.00 | 0.00 | 0.00 | 0.50 | | | |
| New Pole 12 | A | 517580.50 | 597766.01 | 6.00 | 217.00 | 0.00 | 0.00 | 0.50 | | | |
| New Pole 13 | A | 517558.98 | 597786.00 | 6.00 | 290.00 | 0.00 | 0.00 | 0.50 | | | |

Luminaire Classification System (LCS) Graph

Luminaire A R2L2 S - 24 x Warm White 3000K LED CRI70 350mA - EWC Optic



| LCS | Lumens | %Lamp | %Lum |
|-------|--------|-------|-------|
| FL | 385.7 | 10.7 | 10.7 |
| FM | 1246.9 | 34.7 | 34.7 |
| FH | 920.8 | 25.6 | 25.6 |
| FVH | 13.4 | 0.4 | 0.4 |
| BL | 265.0 | 7.4 | 7.4 |
| BM | 498.5 | 13.9 | 13.9 |
| BH | 247.9 | 6.9 | 6.9 |
| BVH | 12.9 | 0.4 | 0.4 |
| UL | 0.0 | 0.0 | 0.0 |
| UH | 0.0 | 0.0 | 0.0 |
| Total | 3591.0 | 100.0 | 100.0 |

BUG rating=B1-U0-G1

Horizontal Illuminance (lux)

Grid 1



Results

| | |
|-----------|-------|
| Eav | 7.63 |
| Emin | 1.54 |
| Emax | 20.00 |
| Emin/Emax | 0.08 |
| Emin/Eav | 0.20 |
| | |

Horizontal Illuminance (lux)

Grid 1

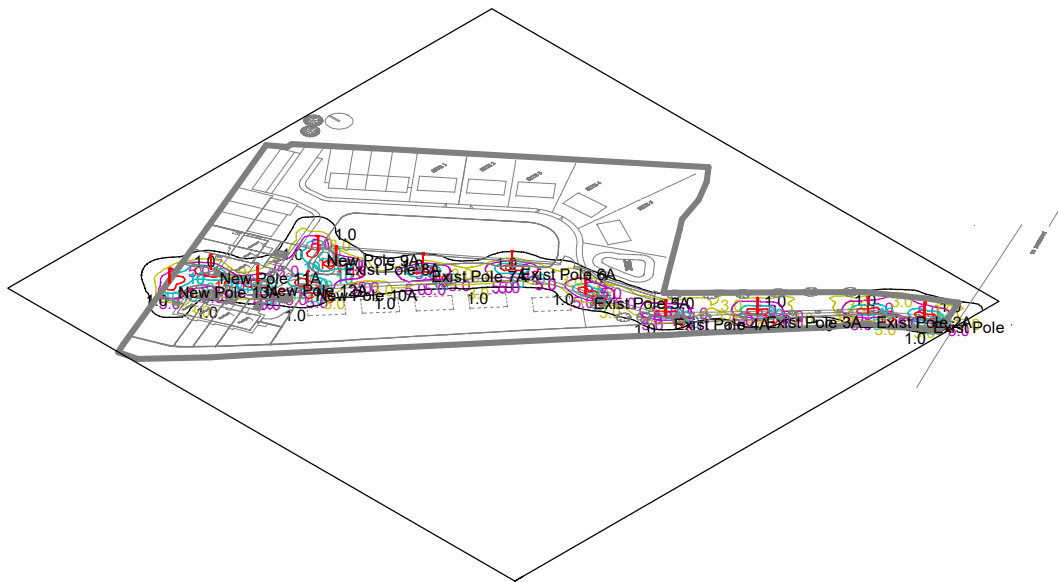


Results

| | |
|-----------|-------|
| Eav | 7.63 |
| Emin | 1.54 |
| Emax | 20.00 |
| Emin/Emax | 0.08 |
| Emin/Eav | 0.20 |
| | |

Horizontal Illuminance (lux)

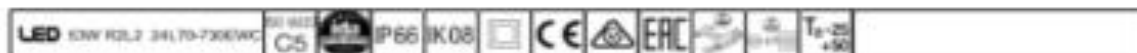
Grid 1



Results

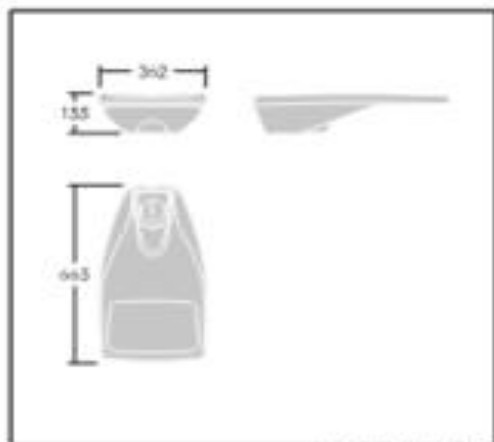
| | |
|-----------------------|-------|
| Eav | 7.63 |
| Emin | 1.54 |
| E _{max} | 20.00 |
| Emin/E _{max} | 0.08 |
| Emin/Eav | 0.20 |
| | |

LUMINAIRE DATA SHEETS

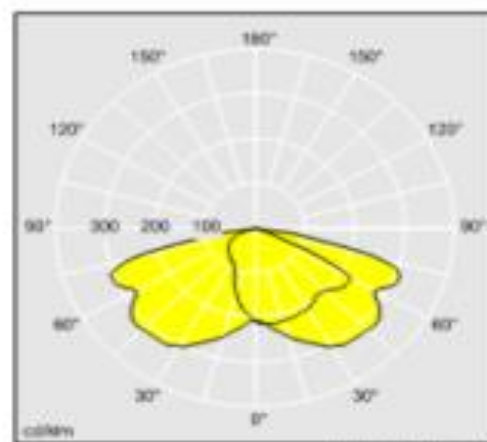
R2L2**96266062 R2L2 S 24L70 730 EWC CL2 GY****THORN****R2L2**

A small size LED road lighting lantern with 24 LEDs driven at 700mA with Extra Wide Street & Comfort optic. LED driver Programmable, Class II electrical, IP66, IK08. Housing: die-cast aluminium (EN AC-44300), powder coated textured light grey. Enclosure: tempered flat glass. Screws: stainless steel, Ecolubric® treated. Post top (Ø60/76mm, tilted 0°/5°/10°) or lateral (Ø34/42/49/60mm, tilted 0°/5°/10°/15°) mounting. For lateral mounting to Ø34/42mm spigots an adaptor (59005640) R2L2 MA34/42 NPA) should be ordered separately. Complete with 3000K LED.

Dimensions: 655 x 362 x 155 mm
Luminaire input power: 53 W
Luminaire luminous flux: 6641 lm
Luminaire efficacy: 125 lm/W
Weight: 9.35 kg
Soc: 0.05 m³



Lamp position: STD - standard
Light Source: LED
Luminaire luminous flux*: 6641 lm
Luminaire efficacy*: 125 lm/W
Colour Rendering Index min.: 70
Ballast: 1 x 87500878 LCO 60/200-1050/100 NF C
ADV3



Correlated colour temperature*: 3000 Kelvin
Chromaticity tolerance (initial MacAdam): 5
Rated useful life (B10)*:
L90 100000 h at 25 °C
Luminaire input power*: 53 W Power factor = 0.95
Dimming: PROG
LOR: 1.00 ULOR: 0.00 DLOR: 1.00

This product contains a light source of energy efficiency class D.

All values marked with an * are rated values. Thorn uses tried and tested components from leading suppliers, however there may be isolated instances of technology-related failures of individual LEDs during the rated product lifetime. International standards set the tolerance in initial flux and connected load at ±12% (unless stated otherwise, the values apply to an ambient temperature of 25 °C).

Thorn Lighting is constantly developing and improving its products. The right is reserved to change specifications without prior notification or public announcement. © Thorn Lighting



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Civil | Structural | Mechanical | Electrical | Sustainability | Environmental



PROJECT No:
C1106

**LIGHTING
REALITY**

PROJECT NAME:
Knocknagree Co Cork Rev 03

SCALE:
1:500

DATE:
27 September 2024

CALCULATION:
Horizontal Illuminance (lux)

DESIGNER:
J Farrelly MSc CEng MIEI

Design To BS5489: 2020
Residential Estate: ILP GP03 - E2 Rural
Normal (B) - Traffic Equivalent To Housing Estate - P3
Maintained Opt Level For P3 = 7.5-11.25 Lux @ 5m & Unit 0.2
Maintenance Factor (MF): Lumen Depreciation Factor = 0.9
BS 5489-1 Table B1 @ 72Mtrs Clearing = 0.84
MF = 0.76 / MF Applied @ Normal CEC Min of 0.76

Sheet Size
A2

Fitting A Thorn R2L2-S EWC 24LED 350mA @ CLO 3000k 25w
Outreach @ 0.5m Indicates Post Top Fitting
Exist Pole - Indicates
Contractor To Inspect and report on Existing Pole & Cabling on site for Re-Use in the new development layout.
i) Contractor To Use Existing Light Pole
ii) Contractor To Replace Existing Lamp For New LED Fitting
iii) Contractor To Inspect Existing Pole & Cabling for Re-Use

PREPARED BY:
OCSC
North Point Business Park
New mallow Road
Cork T23 AT2P
Ph: 021-235 5816
Email: cork@ocsc.ie

| Results Grid 1 | | Supplier | Thorn |
|----------------|-------|--------------------|---|
| Eav | 7.63 | Type | R2L2-S-24 x Warm White 3000K LED CR70 350mA - EWC Optic |
| Emin | 1.54 | Lamp(s) | LED 3000K |
| Emax | 20.00 | Lamp Flux (klm) | 3.59 |
| Emin/Emax | 0.08 | Maintenance Factor | 0.76 |
| Emin/Eav | 0.20 | No. in Project | 13 |



Cork County Council minimum data requirements per light

| Data item (extracted from SEAI Attributes, Nov 2015) | Data inserted by Applicant | Explanation |
|--|---|---|
| 1) Street name/address | Proposed Housing Develoipment Knocknagree Co Cork | Name of Housing estate / Street name and address |
| 2) Road No. if on public Rd. | Off L1108 | e.g. L 1234 |
| 4) Village, Town or District | Knocknagree Co Cork | e.g. Mallow |
| 6) Unit Owner | Cork County Council | Name of payer of Energy Bills |
| 7) TII Lighting Unit | No | Yes/No. (Yes if on a national Route |
| 10) Unit Number | 1A | Tag Number on light |
| 11) Unit Type | Column | This is the type of structure used to mount the luminaire, e.g. column / wall mounted |
| 12) Unit Co-ordinate northing | 517722380 | ITM (Irish Transverse Mercator) format |
| 12) Unit Co-ordinate easting | 597593799 | ITM (Irish Transverse Mercator) format |
| 16) Column Cross-Section | 1A - Existing Circular | Style and shape of the column. Generally octagonal tapered. |
| 17) Col Height | 6m | ground level, generally 5m, 6m, 8m, 10m or 12m. |
| 18) Column Material type | Steel | e.g. steel/aluminium/cast iron/wood. |
| 20) Column base type | Rooted | e.g. Rooted or flanged |
| 21) Column installation date | 1A -Existing Circular - Year Unknown | To the nearest year |
| 23) Bracket Material | Aluminium | e.g. steel, aluminium, cast iron |
| 24) Bracket Type | Demountable | integral/demountable |
| 25) Bracket Dimensions | | e.g. pole to, xm up and ym out. |
| 26) Number Brackets | Single | usually single but some cols have 2 or more |
| 27) Bracket Tilt | 0 | e.g. 0, 5, 10, 15 degrees tilt. |
| 28) Luminaire Height | 6m | bracket height. (or Can be measures with a distometer) |
| 29) Number Luminaires | 1 | Usually only one but a high mast could have up to 12 |
| 30) Luminaire Installation date | 2024 (New Install) | As accurate as is available but to nearest year will suffice |
| 31) Luminaire manufacturer | Thorn | e.g. Philips, Thorn, Cree, Urbis etc. |
| 32) Luminaire model | R2L2 - S | e.g. Luma 2, Civiteq etc. |
| 35) Luminaire warranty expiry date | By Installer | |
| 36) Colour Temp | 3000k | e.g. warm white/neutral white and actual kelvin setting if available. |
| 38) Lumen output | 3590 | e.g. 5,000 lumens |
| 39) Lamp Type | LED | e.g. LED, SON, SOX etc. |
| 40) Wattage | 28w | nominal lamp wattage |
| 42 & 43 Lighting Control & Location | Photecell | e.g.photocell/time clock and individual/grouped |
| 56) Interface Box | NA | applies to lights on ESB poles / wall mounted mainly. |
| 60) Passive safe column | No | Yes/No |
| 62) Passive safe disconnection type | Fuse | Electronic/mechanical/fuse |
| 74) ESB Pole | No | Is light on an ESB pole Yes/No |
| 75) Alert Pole | NA | Applies to ESB poles |
| 76) Over/Under | No | Is bracket an over/under conductor type |
| 90) Lighting standard design | P3 | Design Class, e.g. P3 with S/P, M3, C4 |
| 96) Billable wattage | 28w | Applies to unmetered. Same as 40) if LED |
| 99) Switching Regime | Rural U15 - 35/18 | e.g. 35/18 or 70/30 |
| 101) co-ords of supply point E | | of micro-pillar or connection point |
| 102) co-ords of supply point N | 597593799 | of micro-pillar or connection point |
| 103) Metered /Unmetered | Unmetered | |
| 104) Current GMPRN | Not Applicable | |
| 105,106) TMPRN /MPRN | Not Applicable | |
| | | |

Cork County Council minimum data requirements per light

| Data item (extracted from SEAI Attributes, Nov 2015) | Data inserted by Applicant | Explanation |
|--|---|---|
| 1) Street name/address | Proposed Housing Develoipment Knocknagree Co Cork | Name of Housing estate / Street name and address |
| 2) Road No. if on public Rd. | Off L1108 | e.g. L 1234 |
| 4) Village, Town or District | Knocknagree Co Cork | e.g. Mallow |
| 6) Unit Owner | Cork County Council | Name of payer of Energy Bills |
| 7) TII Lighting Unit | No | Yes/No. (Yes if on a national Route |
| 10) Unit Number | 2A | Tag Number on light |
| 11) Unit Type | Column | This is the type of structure used to mount the luminaire, e.g. column / wall mounted |
| 12) Unit Co-ordinate northing | 517711056 | ITM (Irish Transverse Mercator) format |
| 12) Unit Co-ordinate easting | 597609169 | ITM (Irish Transverse Mercator) format |
| 16) Column Cross-Section | 2A - Existing Circular | Style and shape of the column. Generally octagonal tapered. |
| 17) Col Height | 6m | ground level, generally 5m, 6m, 8m, 10m or 12m. |
| 18) Column Material type | Steel | e.g. steel/aluminium/cast iron/wood. |
| 20) Column base type | Rooted | e.g. Rooted or flanged |
| 21) Column installation date | 2A -Existing Circular - Year Unknown | To the nearest year |
| 23) Bracket Material | Aluminium | e.g. steel, aluminium, cast iron |
| 24) Bracket Type | Demountable | integral/demountable |
| 25) Bracket Dimensions | | e.g. pole to, xm up and ym out. |
| 26) Number Brackets | Single | usually single but some cols have 2 or more |
| 27) Bracket Tilt | 0 | e.g. 0, 5, 10, 15 degrees tilt. |
| 28) Luminaire Height | 6m | bracket height. (or Can be measures with a distometer) |
| 29) Number Luminaires | 1 | Usually only one but a high mast could have up to 12 |
| 30) Luminaire Installation date | 2024 (New Install) | As accurate as is available but to nearest year will suffice |
| 31) Luminaire manufacturer | Thorn | e.g. Philips, Thorn, Cree, Urbis etc. |
| 32) Luminaire model | R2L2 - S | e.g. Luma 2, Civiteq etc. |
| 35) Luminaire warranty expiry date | By Installer | |
| 36) Colour Temp | 3000k | e.g. warm white/neutral white and actual kelvin setting if available. |
| 38) Lumen output | 3590 | e.g. 5,000 lumens |
| 39) Lamp Type | LED | e.g. LED, SON, SOX etc. |
| 40) Wattage | 28w | nominal lamp wattage |
| 42 & 43 Lighting Control & Location | Photecell | e.g.photocell/time clock and individual/grouped |
| 56) Interface Box | NA | applies to lights on ESB poles / wall mounted mainly. |
| 60) Passive safe column | No | Yes/No |
| 62) Passive safe disconnection type | Fuse | Electronic/mechanical/fuse |
| 74) ESB Pole | No | Is light on an ESB pole Yes/No |
| 75) Alert Pole | NA | Applies to ESB poles |
| 76) Over/Under | No | Is bracket an over/under conductor type |
| 90) Lighting standard design | P3 | Design Class, e.g. P3 with S/P, M3, C4 |
| 96) Billable wattage | 28w | Applies to unmetered. Same as 40) if LED |
| 99) Switching Regime | Rural U15 - 35/18 | e.g. 35/18 or 70/30 |
| 101) co-ords of supply point E | 517722380 | of micro-pillar or connection point |
| 102) co-ords of supply point N | 597593799 | of micro-pillar or connection point |
| 103) Metered /Unmetered | Unmetered | |
| 104) Current GMPRN | Not Applicable | |
| 105,106) TMPRN /MPRN | Not Applicable | |
| | | |

Cork County Council minimum data requirements per light

| Data item (extracted from SEAI Attributes, Nov 2015) | Data inserted by Applicant | Explanation |
|--|---|---|
| 1) Street name/address | Proposed Housing Develoipment Knocknagree Co Cork | Name of Housing estate / Street name and address |
| 2) Road No. if on public Rd. | Off L1108 | e.g. L 1234 |
| 4) Village, Town or District | Knocknagree Co Cork | e.g. Mallow |
| 6) Unit Owner | Cork County Council | Name of payer of Energy Bills |
| 7) TII Lighting Unit | No | Yes/No. (Yes if on a national Route |
| 10) Unit Number | 3A | Tag Number on light |
| 11) Unit Type | Column | This is the type of structure used to mount the luminaire, e.g. column / wall mounted |
| 12) Unit Co-ordinate northing | 517684719 | ITM (Irish Transverse Mercator) format |
| 12) Unit Co-ordinate easting | 597635162 | ITM (Irish Transverse Mercator) format |
| 16) Column Cross-Section | 3A - Existing Circular | Style and shape of the column. Generally octagonal tapered. |
| 17) Col Height | 6m | ground level, generally 5m, 6m, 8m, 10m or 12m. |
| 18) Column Material type | Steel | e.g. steel/aluminium/cast iron/wood. |
| 20) Column base type | Rooted | e.g. Rooted or flanged |
| 21) Column installation date | 3A -Existing Circular - Year Unknown | To the nearest year |
| 23) Bracket Material | Aluminium | e.g. steel, aluminium, cast iron |
| 24) Bracket Type | Demountable | integral/demountable |
| 25) Bracket Dimensions | | e.g. pole to, xm up and ym out. |
| 26) Number Brackets | Single | usually single but some cols have 2 or more |
| 27) Bracket Tilt | 0 | e.g. 0, 5, 10, 15 degrees tilt. |
| 28) Luminaire Height | 6m | bracket height. (or Can be measures with a distometer) |
| 29) Number Luminaires | 1 | Usually only one but a high mast could have up to 12 |
| 30) Luminaire Installation date | 2024 (New Install) | As accurate as is available but to nearest year will suffice |
| 31) Luminaire manufacturer | Thorn | e.g. Philips, Thorn, Cree, Urbis etc. |
| 32) Luminaire model | R2L2 - S | e.g. Luma 2, Civiteq etc. |
| 35) Luminaire warranty expiry date | By Installer | |
| 36) Colour Temp | 3000k | e.g. warm white/neutral white and actual kelvin setting if available. |
| 38) Lumen output | 3590 | e.g. 5,000 lumens |
| 39) Lamp Type | LED | e.g. LED, SON, SOX etc. |
| 40) Wattage | 28w | nominal lamp wattage |
| 42 & 43 Lighting Control & Location | Photecell | e.g.photocell/time clock and individual/grouped |
| 56) Interface Box | NA | applies to lights on ESB poles / wall mounted mainly. |
| 60) Passive safe column | No | Yes/No |
| 62) Passive safe disconnection type | Fuse | Electronic/mechanical/fuse |
| 74) ESB Pole | No | Is light on an ESB pole Yes/No |
| 75) Alert Pole | NA | Applies to ESB poles |
| 76) Over/Under | No | Is bracket an over/under conductor type |
| 90) Lighting standard design | P3 | Design Class, e.g. P3 with S/P, M3, C4 |
| 96) Billable wattage | 28w | Applies to unmetered. Same as 40) if LED |
| 99) Switching Regime | Rural U15 - 35/18 | e.g. 35/18 or 70/30 |
| 101) co-ords of supply point E | 517722380 | of micro-pillar or connection point |
| 102) co-ords of supply point N | 597593799 | of micro-pillar or connection point |
| 103) Metered /Unmetered | Unmetered | |
| 104) Current GMPRN | Not Applicable | |
| 105,106) TMPRN /MPRN | Not Applicable | |
| | | |

Cork County Council minimum data requirements per light

| Data item (extracted from SEAI Attributes, Nov 2015) | Data inserted by Applicant | Explanation |
|--|---|---|
| 1) Street name/address | Proposed Housing Develoipment Knocknagree Co Cork | Name of Housing estate / Street name and address |
| 2) Road No. if on public Rd. | Off L1108 | e.g. L 1234 |
| 4) Village, Town or District | Knocknagree Co Cork | e.g. Mallow |
| 6) Unit Owner | Cork County Council | Name of payer of Energy Bills |
| 7) TII Lighting Unit | No | Yes/No. (Yes if on a national Route |
| 10) Unit Number | 4A | Tag Number on light |
| 11) Unit Type | Column | This is the type of structure used to mount the luminaire, e.g. column / wall mounted |
| 12) Unit Co-ordinate northing | 517662657 | ITM (Irish Transverse Mercator) format |
| 12) Unit Co-ordinate easting | 597655839 | ITM (Irish Transverse Mercator) format |
| 16) Column Cross-Section | 4A - Existing Circular | Style and shape of the column. Generally octagonal tapered. |
| 17) Col Height | 6m | ground level, generally 5m, 6m, 8m, 10m or 12m. |
| 18) Column Material type | Steel | e.g. steel/aluminium/cast iron/wood. |
| 20) Column base type | Rooted | e.g. Rooted or flanged |
| 21) Column installation date | 4A -Existing Circular - Year Unknown | To the nearest year |
| 23) Bracket Material | Aluminium | e.g. steel, aluminium, cast iron |
| 24) Bracket Type | Demountable | integral/demountable |
| 25) Bracket Dimensions | | e.g. pole to, xm up and ym out. |
| 26) Number Brackets | Single | usually single but some cols have 2 or more |
| 27) Bracket Tilt | 0 | e.g. 0, 5, 10, 15 degrees tilt. |
| 28) Luminaire Height | 6m | bracket height. (or Can be measures with a distometer) |
| 29) Number Luminaires | 1 | Usually only one but a high mast could have up to 12 |
| 30) Luminaire Installation date | 2024 (New Install) | As accurate as is available but to nearest year will suffice |
| 31) Luminaire manufacturer | Thorn | e.g. Philips, Thorn, Cree, Urbis etc. |
| 32) Luminaire model | R2L2 - S | e.g. Luma 2, Civiteq etc. |
| 35) Luminaire warranty expiry date | By Installer | |
| 36) Colour Temp | 3000k | e.g. warm white/neutral white and actual kelvin setting if available. |
| 38) Lumen output | 3590 | e.g. 5,000 lumens |
| 39) Lamp Type | LED | e.g. LED, SON, SOX etc. |
| 40) Wattage | 28w | nominal lamp wattage |
| 42 & 43 Lighting Control & Location | Photecell | e.g.photocell/time clock and individual/grouped |
| 56) Interface Box | NA | applies to lights on ESB poles / wall mounted mainly. |
| 60) Passive safe column | No | Yes/No |
| 62) Passive safe disconnection type | Fuse | Electronic/mechanical/fuse |
| 74) ESB Pole | No | Is light on an ESB pole Yes/No |
| 75) Alert Pole | NA | Applies to ESB poles |
| 76) Over/Under | No | Is bracket an over/under conductor type |
| 90) Lighting standard design | P3 | Design Class, e.g. P3 with S/P, M3, C4 |
| 96) Billable wattage | 28w | Applies to unmetered. Same as 40) if LED |
| 99) Switching Regime | Rural U15 - 35/18 | e.g. 35/18 or 70/30 |
| 101) co-ords of supply point E | 517722380 | of micro-pillar or connection point |
| 102) co-ords of supply point N | 597593799 | of micro-pillar or connection point |
| 103) Metered /Unmetered | Unmetered | |
| 104) Current GMPRN | Not Applicable | |
| 105,106) TMPRN /MPRN | Not Applicable | |
| | | |

Cork County Council minimum data requirements per light

| Data item (extracted from SEAI Attributes, Nov 2015) | Data inserted by Applicant | Explanation |
|--|---|---|
| 1) Street name/address | Proposed Housing Develoipment Knocknagree Co Cork | Name of Housing estate / Street name and address |
| 2) Road No. if on public Rd. | Off L1108 | e.g. L 1234 |
| 4) Village, Town or District | Knocknagree Co Cork | e.g. Mallow |
| 6) Unit Owner | Cork County Council | Name of payer of Energy Bills |
| 7) TII Lighting Unit | No | Yes/No. (Yes if on a national Route |
| 10) Unit Number | 5A | Tag Number on light |
| 11) Unit Type | Column | This is the type of structure used to mount the luminaire, e.g. column / wall mounted |
| 12) Unit Co-ordinate northing | 517652554 | ITM (Irish Transverse Mercator) format |
| 12) Unit Co-ordinate easting | 597683577 | ITM (Irish Transverse Mercator) format |
| 16) Column Cross-Section | 5A - Existing Circular | Style and shape of the column. Generally octagonal tapered. |
| 17) Col Height | 6m | ground level, generally 5m, 6m, 8m, 10m or 12m. |
| 18) Column Material type | Steel | e.g. steel/aluminium/cast iron/wood. |
| 20) Column base type | Rooted | e.g. Rooted or flanged |
| 21) Column installation date | 5A -Existing Circular - Year Unknown | To the nearest year |
| 23) Bracket Material | Aluminium | e.g. steel, aluminium, cast iron |
| 24) Bracket Type | Demountable | integral/demountable |
| 25) Bracket Dimensions | | e.g. pole to, xm up and ym out. |
| 26) Number Brackets | Single | usually single but some cols have 2 or more |
| 27) Bracket Tilt | 0 | e.g. 0, 5, 10, 15 degrees tilt. |
| 28) Luminaire Height | 6m | bracket height. (or Can be measures with a distometer) |
| 29) Number Luminaires | 1 | Usually only one but a high mast could have up to 12 |
| 30) Luminaire Installation date | 2024 (New Install) | As accurate as is available but to nearest year will suffice |
| 31) Luminaire manufacturer | Thorn | e.g. Philips, Thorn, Cree, Urbis etc. |
| 32) Luminaire model | R2L2 - S | e.g. Luma 2, Civiteq etc. |
| 35) Luminaire warranty expiry date | By Installer | |
| 36) Colour Temp | 3000k | e.g. warm white/neutral white and actual kelvin setting if available. |
| 38) Lumen output | 3590 | e.g. 5,000 lumens |
| 39) Lamp Type | LED | e.g. LED, SON, SOX etc. |
| 40) Wattage | 28w | nominal lamp wattage |
| 42 & 43 Lighting Control & Location | Photecell | e.g.photocell/time clock and individual/grouped |
| 56) Interface Box | NA | applies to lights on ESB poles / wall mounted mainly. |
| 60) Passive safe column | No | Yes/No |
| 62) Passive safe disconnection type | Fuse | Electronic/mechanical/fuse |
| 74) ESB Pole | No | Is light on an ESB pole Yes/No |
| 75) Alert Pole | NA | Applies to ESB poles |
| 76) Over/Under | No | Is bracket an over/under conductor type |
| 90) Lighting standard design | P3 | Design Class, e.g. P3 with S/P, M3, C4 |
| 96) Billable wattage | 28w | Applies to unmetered. Same as 40) if LED |
| 99) Switching Regime | Rural U15 - 35/18 | e.g. 35/18 or 70/30 |
| 101) co-ords of supply point E | 517722380 | of micro-pillar or connection point |
| 102) co-ords of supply point N | 597593799 | of micro-pillar or connection point |
| 103) Metered /Unmetered | Unmetered | |
| 104) Current GMPRN | Not Applicable | |
| 105,106) TMPRN /MPRN | Not Applicable | |
| | | |

Cork County Council minimum data requirements per light

| Data item (extracted from SEAI Attributes, Nov 2015) | Data inserted by Applicant | Explanation |
|--|---|---|
| 1) Street name/address | Proposed Housing Develoipment Knocknagree Co Cork | Name of Housing estate / Street name and address |
| 2) Road No. if on public Rd. | Off L1108 | e.g. L 1234 |
| 4) Village, Town or District | Knocknagree Co Cork | e.g. Mallow |
| 6) Unit Owner | Cork County Council | Name of payer of Energy Bills |
| 7) TII Lighting Unit | No | Yes/No. (Yes if on a national Route |
| 10) Unit Number | 6A | Tag Number on light |
| 11) Unit Type | Column | This is the type of structure used to mount the luminaire, e.g. column / wall mounted |
| 12) Unit Co-ordinate northing | 517646860 | ITM (Irish Transverse Mercator) format |
| 12) Unit Co-ordinate easting | 597712591 | ITM (Irish Transverse Mercator) format |
| 16) Column Cross-Section | 6A - Existing Circular | Style and shape of the column. Generally octagonal tapered. |
| 17) Col Height | 6m | ground level, generally 5m, 6m, 8m, 10m or 12m. |
| 18) Column Material type | Steel | e.g. steel/aluminium/cast iron/wood. |
| 20) Column base type | Rooted | e.g. Rooted or flanged |
| 21) Column installation date | 6A -Existing Circular - Year Unknown | To the nearest year |
| 23) Bracket Material | Aluminium | e.g. steel, aluminium, cast iron |
| 24) Bracket Type | Demountable | integral/demountable |
| 25) Bracket Dimensions | | e.g. pole to, xm up and ym out. |
| 26) Number Brackets | Single | usually single but some cols have 2 or more |
| 27) Bracket Tilt | 0 | e.g. 0, 5, 10, 15 degrees tilt. |
| 28) Luminaire Height | 6m | bracket height. (or Can be measures with a distometer) |
| 29) Number Luminaires | 1 | Usually only one but a high mast could have up to 12 |
| 30) Luminaire Installation date | 2024 (New Install) | As accurate as is available but to nearest year will suffice |
| 31) Luminaire manufacturer | Thorn | e.g. Philips, Thorn, Cree, Urbis etc. |
| 32) Luminaire model | R2L2 - S | e.g. Luma 2, Civiteq etc. |
| 35) Luminaire warranty expiry date | By Installer | |
| 36) Colour Temp | 3000k | e.g. warm white/neutral white and actual kelvin setting if available. |
| 38) Lumen output | 3590 | e.g. 5,000 lumens |
| 39) Lamp Type | LED | e.g. LED, SON, SOX etc. |
| 40) Wattage | 28w | nominal lamp wattage |
| 42 & 43 Lighting Control & Location | Photecell | e.g. photocell/time clock and individual/grouped |
| 56) Interface Box | NA | applies to lights on ESB poles / wall mounted mainly. |
| 60) Passive safe column | No | Yes/No |
| 62) Passive safe disconnection type | Fuse | Electronic/mechanical/fuse |
| 74) ESB Pole | No | Is light on an ESB pole Yes/No |
| 75) Alert Pole | NA | Applies to ESB poles |
| 76) Over/Under | No | Is bracket an over/under conductor type |
| 90) Lighting standard design | P3 | Design Class, e.g. P3 with S/P, M3, C4 |
| 96) Billable wattage | 28w | Applies to unmetered. Same as 40) if LED |
| 99) Switching Regime | Rural U15 - 35/18 | e.g. 35/18 or 70/30 |
| 101) co-ords of supply point E | 517722380 | of micro-pillar or connection point |
| 102) co-ords of supply point N | 597593799 | of micro-pillar or connection point |
| 103) Metered /Unmetered | Unmetered | |
| 104) Current GMPRN | Not Applicable | |
| 105,106) TMPRN /MPRN | Not Applicable | |
| | | |

Cork County Council minimum data requirements per light

| Data item (extracted from SEAI Attributes, Nov 2015) | Data inserted by Applicant | Explanation |
|--|---|---|
| 1) Street name/address | Proposed Housing Develoipment Knocknagree Co Cork | Name of Housing estate / Street name and address |
| 2) Road No. if on public Rd. | Off L1108 | e.g. L 1234 |
| 4) Village, Town or District | Knocknagree Co Cork | e.g. Mallow |
| 6) Unit Owner | Cork County Council | Name of payer of Energy Bills |
| 7) TII Lighting Unit | No | Yes/No. (Yes if on a national Route |
| 10) Unit Number | 7A | Tag Number on light |
| 11) Unit Type | Column | This is the type of structure used to mount the luminaire, e.g. column / wall mounted |
| 12) Unit Co-ordinate northing | 517624983 | ITM (Irish Transverse Mercator) format |
| 12) Unit Co-ordinate easting | 597732508 | ITM (Irish Transverse Mercator) format |
| 16) Column Cross-Section | 7A - Existing Circular | Style and shape of the column. Generally octagonal tapered. |
| 17) Col Height | 6m | ground level, generally 5m, 6m, 8m, 10m or 12m. |
| 18) Column Material type | Steel | e.g. steel/aluminium/cast iron/wood. |
| 20) Column base type | Rooted | e.g. Rooted or flanged |
| 21) Column installation date | 7A -Existing Circular - Year Unknown | To the nearest year |
| 23) Bracket Material | Aluminium | e.g. steel, aluminium, cast iron |
| 24) Bracket Type | Demountable | integral/demountable |
| 25) Bracket Dimensions | | e.g. pole to, xm up and ym out. |
| 26) Number Brackets | Single | usually single but some cols have 2 or more |
| 27) Bracket Tilt | 0 | e.g. 0, 5, 10, 15 degrees tilt. |
| 28) Luminaire Height | 6m | bracket height. (or Can be measures with a distometer) |
| 29) Number Luminaires | 1 | Usually only one but a high mast could have up to 12 |
| 30) Luminaire Installation date | 2024 (New Install) | As accurate as is available but to nearest year will suffice |
| 31) Luminaire manufacturer | Thorn | e.g. Philips, Thorn, Cree, Urbis etc. |
| 32) Luminaire model | R2L2 - S | e.g. Luma 2, Civiteq etc. |
| 35) Luminaire warranty expiry date | By Installer | |
| 36) Colour Temp | 3000k | e.g. warm white/neutral white and actual kelvin setting if available. |
| 38) Lumen output | 3590 | e.g. 5,000 lumens |
| 39) Lamp Type | LED | e.g. LED, SON, SOX etc. |
| 40) Wattage | 28w | nominal lamp wattage |
| 42 & 43 Lighting Control & Location | Photecell | e.g.photocell/time clock and individual/grouped |
| 56) Interface Box | NA | applies to lights on ESB poles / wall mounted mainly. |
| 60) Passive safe column | No | Yes/No |
| 62) Passive safe disconnection type | Fuse | Electronic/mechanical/fuse |
| 74) ESB Pole | No | Is light on an ESB pole Yes/No |
| 75) Alert Pole | NA | Applies to ESB poles |
| 76) Over/Under | No | Is bracket an over/under conductor type |
| 90) Lighting standard design | P3 | Design Class, e.g. P3 with S/P, M3, C4 |
| 96) Billable wattage | 28w | Applies to unmetered. Same as 40) if LED |
| 99) Switching Regime | Rural U15 - 35/18 | e.g. 35/18 or 70/30 |
| 101) co-ords of supply point E | 517722380 | of micro-pillar or connection point |
| 102) co-ords of supply point N | 597593799 | of micro-pillar or connection point |
| 103) Metered /Unmetered | Unmetered | |
| 104) Current GMPRN | Not Applicable | |
| 105,106) TMPRN /MPRN | Not Applicable | |
| | | |

Cork County Council minimum data requirements per light

| Data item (extracted from SEAI Attributes, Nov 2015) | Data inserted by Applicant | Explanation |
|--|---|---|
| 1) Street name/address | Proposed Housing Develoipment Knocknagree Co Cork | Name of Housing estate / Street name and address |
| 2) Road No. if on public Rd. | Off L1108 | e.g. L 1234 |
| 4) Village, Town or District | Knocknagree Co Cork | e.g. Mallow |
| 6) Unit Owner | Cork County Council | Name of payer of Energy Bills |
| 7) TII Lighting Unit | No | Yes/No. (Yes if on a national Route |
| 10) Unit Number | 8A | Tag Number on light |
| 11) Unit Type | Column | This is the type of structure used to mount the luminaire, e.g. column / wall mounted |
| 12) Unit Co-ordinate northing | 517607177 | ITM (Irish Transverse Mercator) format |
| 12) Unit Co-ordinate easting | 597755647 | ITM (Irish Transverse Mercator) format |
| 16) Column Cross-Section | 8A - Existing Circular | Style and shape of the column. Generally octagonal tapered. |
| 17) Col Height | 6m | ground level, generally 5m, 6m, 8m, 10m or 12m. |
| 18) Column Material type | Steel | e.g. steel/aluminium/cast iron/wood. |
| 20) Column base type | Rooted | e.g. Rooted or flanged |
| 21) Column installation date | 8A -Existing Circular - Year Unknown | To the nearest year |
| 23) Bracket Material | Aluminium | e.g. steel, aluminium, cast iron |
| 24) Bracket Type | Demountable | integral/demountable |
| 25) Bracket Dimensions | | e.g. pole to, xm up and ym out. |
| 26) Number Brackets | Single | usually single but some cols have 2 or more |
| 27) Bracket Tilt | 0 | e.g. 0, 5, 10, 15 degrees tilt. |
| 28) Luminaire Height | 6m | bracket height. (or Can be measures with a distometer) |
| 29) Number Luminaires | 1 | Usually only one but a high mast could have up to 12 |
| 30) Luminaire Installation date | 2024 (New Install) | As accurate as is available but to nearest year will suffice |
| 31) Luminaire manufacturer | Thorn | e.g. Philips, Thorn, Cree, Urbis etc. |
| 32) Luminaire model | R2L2 - S | e.g. Luma 2, Civiteq etc. |
| 35) Luminaire warranty expiry date | By Installer | |
| 36) Colour Temp | 3000k | e.g. warm white/neutral white and actual kelvin setting if available. |
| 38) Lumen output | 3590 | e.g. 5,000 lumens |
| 39) Lamp Type | LED | e.g. LED, SON, SOX etc. |
| 40) Wattage | 28w | nominal lamp wattage |
| 42 & 43 Lighting Control & Location | Photecell | e.g.photocell/time clock and individual/grouped |
| 56) Interface Box | NA | applies to lights on ESB poles / wall mounted mainly. |
| 60) Passive safe column | No | Yes/No |
| 62) Passive safe disconnection type | Fuse | Electronic/mechanical/fuse |
| 74) ESB Pole | No | Is light on an ESB pole Yes/No |
| 75) Alert Pole | NA | Applies to ESB poles |
| 76) Over/Under | No | Is bracket an over/under conductor type |
| 90) Lighting standard design | P3 | Design Class, e.g. P3 with S/P, M3, C4 |
| 96) Billable wattage | 28w | Applies to unmetered. Same as 40) if LED |
| 99) Switching Regime | Rural U15 - 35/18 | e.g. 35/18 or 70/30 |
| 101) co-ords of supply point E | 517722380 | of micro-pillar or connection point |
| 102) co-ords of supply point N | 597593799 | of micro-pillar or connection point |
| 103) Metered /Unmetered | Unmetered | |
| 104) Current GMPRN | Not Applicable | |
| 105,106) TMPRN /MPRN | Not Applicable | |
| | | |

Cork County Council minimum data requirements per light

| Data item (extracted from SEAI Attributes, Nov 2015) | Data inserted by Applicant | Explanation |
|--|---|---|
| 1) Street name/address | Proposed Housing Develoipment Knocknagree Co Cork | Name of Housing estate / Street name and address |
| 2) Road No. if on public Rd. | Off L1108 | e.g. L 1234 |
| 4) Village, Town or District | Knocknagree Co Cork | e.g. Mallow |
| 6) Unit Owner | Cork County Council | Name of payer of Energy Bills |
| 7) TII Lighting Unit | No | Yes/No. (Yes if on a national Route |
| 10) Unit Number | 9A | Tag Number on light |
| 11) Unit Type | Column | This is the type of structure used to mount the luminaire, e.g. column / wall mounted |
| 12) Unit Co-ordinate northing | 517604680 | ITM (Irish Transverse Mercator) format |
| 12) Unit Co-ordinate easting | 597762602 | ITM (Irish Transverse Mercator) format |
| 16) Column Cross-Section | 9A - Octagonal | Style and shape of the column. Generally octagonal tapered. |
| 17) Col Height | 6m | ground level, generally 5m, 6m, 8m, 10m or 12m. |
| 18) Column Material type | Steel | e.g. steel/aluminium/cast iron/wood. |
| 20) Column base type | Rooted | e.g. Rooted or flanged |
| 21) Column installation date | 9A -New Column To Be Installed | To the nearest year |
| 23) Bracket Material | Aluminium | e.g. steel, aluminium, cast iron |
| 24) Bracket Type | Demountable | integral/demountable |
| 25) Bracket Dimensions | | e.g. pole to, xm up and ym out. |
| 26) Number Brackets | Single | usually single but some cols have 2 or more |
| 27) Bracket Tilt | 0 | e.g. 0, 5, 10, 15 degrees tilt. |
| 28) Luminaire Height | 6m | bracket height. (or Can be measures with a distometer) |
| 29) Number Luminaires | 1 | Usually only one but a high mast could have up to 12 |
| 30) Luminaire Installation date | 2024 (New Install) | As accurate as is available but to nearest year will suffice |
| 31) Luminaire manufacturer | Thorn | e.g. Philips, Thorn, Cree, Urbis etc. |
| 32) Luminaire model | R2L2 - S | e.g. Luma 2, Civiteq etc. |
| 35) Luminaire warranty expiry date | By Installer | |
| 36) Colour Temp | 3000k | e.g. warm white/neutral white and actual kelvin setting if available. |
| 38) Lumen output | 3590 | e.g. 5,000 lumens |
| 39) Lamp Type | LED | e.g. LED, SON, SOX etc. |
| 40) Wattage | 28w | nominal lamp wattage |
| 42 & 43 Lighting Control & Location | Photecell | e.g. photocell/time clock and individual/grouped |
| 56) Interface Box | NA | applies to lights on ESB poles / wall mounted mainly. |
| 60) Passive safe column | No | Yes/No |
| 62) Passive safe disconnection type | Fuse | Electronic/mechanical/fuse |
| 74) ESB Pole | No | Is light on an ESB pole Yes/No |
| 75) Alert Pole | NA | Applies to ESB poles |
| 76) Over/Under | No | Is bracket an over/under conductor type |
| 90) Lighting standard design | P3 | Design Class, e.g. P3 with S/P, M3, C4 |
| 96) Billable wattage | 28w | Applies to unmetered. Same as 40) if LED |
| 99) Switching Regime | Rural U15 - 35/18 | e.g. 35/18 or 70/30 |
| 101) co-ords of supply point E | 517580951 | of micro-pillar or connection point |
| 102) co-ords of supply point N | 597755920 | of micro-pillar or connection point |
| 103) Metered /Unmetered | Unmetered | |
| 104) Current GMPRN | Not Applicable | |
| 105,106) TMPRN /MPRN | Not Applicable | |
| | | |

Cork County Council minimum data requirements per light

| Data item (extracted from SEAI Attributes, Nov 2015) | Data inserted by Applicant | Explanation |
|--|---|---|
| 1) Street name/address | Proposed Housing Develoipment Knocknagree Co Cork | Name of Housing estate / Street name and address |
| 2) Road No. if on public Rd. | Off L1108 | e.g. L 1234 |
| 4) Village, Town or District | Knocknagree Co Cork | e.g. Mallow |
| 6) Unit Owner | Cork County Council | Name of payer of Energy Bills |
| 7) TII Lighting Unit | No | Yes/No. (Yes if on a national Route |
| 10) Unit Number | 10A | Tag Number on light |
| 11) Unit Type | Column | This is the type of structure used to mount the luminaire, e.g. column / wall mounted |
| 12) Unit Co-ordinate northing | 517590332 | ITM (Irish Transverse Mercator) format |
| 12) Unit Co-ordinate easting | 597750855 | ITM (Irish Transverse Mercator) format |
| 16) Column Cross-Section | 10A - Octagonal | Style and shape of the column. Generally octagonal tapered. |
| 17) Col Height | 6m | ground level, generally 5m, 6m, 8m, 10m or 12m. |
| 18) Column Material type | Steel | e.g. steel/aluminium/cast iron/wood. |
| 20) Column base type | Rooted | e.g. Rooted or flanged |
| 21) Column installation date | 10A -New Column To Be Installed | To the nearest year |
| 23) Bracket Material | Aluminium | e.g. steel, aluminium, cast iron |
| 24) Bracket Type | Demountable | integral/demountable |
| 25) Bracket Dimensions | | e.g. pole to, xm up and ym out. |
| 26) Number Brackets | Single | usually single but some cols have 2 or more |
| 27) Bracket Tilt | 0 | e.g. 0, 5, 10, 15 degrees tilt. |
| 28) Luminaire Height | 6m | bracket height. (or Can be measures with a distometer) |
| 29) Number Luminaires | 1 | Usually only one but a high mast could have up to 12 |
| 30) Luminaire Installation date | 2024 (New Install) | As accurate as is available but to nearest year will suffice |
| 31) Luminaire manufacturer | Thorn | e.g. Philips, Thorn, Cree, Urbis etc. |
| 32) Luminaire model | R2L2 - S | e.g. Luma 2, Civiteq etc. |
| 35) Luminaire warranty expiry date | By Installer | |
| 36) Colour Temp | 3000k | e.g. warm white/neutral white and actual kelvin setting if available. |
| 38) Lumen output | 3590 | e.g. 5,000 lumens |
| 39) Lamp Type | LED | e.g. LED, SON, SOX etc. |
| 40) Wattage | 28w | nominal lamp wattage |
| 42 & 43 Lighting Control & Location | Photecell | e.g. photocell/time clock and individual/grouped |
| 56) Interface Box | NA | applies to lights on ESB poles / wall mounted mainly. |
| 60) Passive safe column | No | Yes/No |
| 62) Passive safe disconnection type | Fuse | Electronic/mechanical/fuse |
| 74) ESB Pole | No | Is light on an ESB pole Yes/No |
| 75) Alert Pole | NA | Applies to ESB poles |
| 76) Over/Under | No | Is bracket an over/under conductor type |
| 90) Lighting standard design | P3 | Design Class, e.g. P3 with S/P, M3, C4 |
| 96) Billable wattage | 28w | Applies to unmetered. Same as 40) if LED |
| 99) Switching Regime | Rural U15 - 35/18 | e.g. 35/18 or 70/30 |
| 101) co-ords of supply point E | 517580951 | of micro-pillar or connection point |
| 102) co-ords of supply point N | 597755920 | of micro-pillar or connection point |
| 103) Metered /Unmetered | Unmetered | |
| 104) Current GMPRN | Not Applicable | |
| 105,106) TMPRN /MPRN | Not Applicable | |
| | | |

Cork County Council minimum data requirements per light

| Data item (extracted from SEAI Attributes, Nov 2015) | Data inserted by Applicant | Explanation |
|--|---|---|
| 1) Street name/address | Proposed Housing Develoipment Knocknagree Co Cork | Name of Housing estate / Street name and address |
| 2) Road No. if on public Rd. | Off L1108 | e.g. L 1234 |
| 4) Village, Town or District | Knocknagree Co Cork | e.g. Mallow |
| 6) Unit Owner | Cork County Council | Name of payer of Energy Bills |
| 7) TII Lighting Unit | No | Yes/No. (Yes if on a national Route |
| 10) Unit Number | 11A | Tag Number on light |
| 11) Unit Type | Column | This is the type of structure used to mount the luminaire, e.g. column / wall mounted |
| 12) Unit Co-ordinate northing | 517576414 | ITM (Irish Transverse Mercator) format |
| 12) Unit Co-ordinate easting | 597755920 | ITM (Irish Transverse Mercator) format |
| 16) Column Cross-Section | 11A - Octagonal | Style and shape of the column. Generally octagonal tapered. |
| 17) Col Height | 6m | ground level, generally 5m, 6m, 8m, 10m or 12m. |
| 18) Column Material type | Steel | e.g. steel/aluminium/cast iron/wood. |
| 20) Column base type | Rooted | e.g. Rooted or flanged |
| 21) Column installation date | 11A -New Column To Be Installed | To the nearest year |
| 23) Bracket Material | Aluminium | e.g. steel, aluminium, cast iron |
| 24) Bracket Type | Demountable | integral/demountable |
| 25) Bracket Dimensions | | e.g. pole to, xm up and ym out. |
| 26) Number Brackets | Single | usually single but some cols have 2 or more |
| 27) Bracket Tilt | 0 | e.g. 0, 5, 10, 15 degrees tilt. |
| 28) Luminaire Height | 6m | bracket height. (or Can be measures with a distometer) |
| 29) Number Luminaires | 1 | Usually only one but a high mast could have up to 12 |
| 30) Luminaire Installation date | 2024 (New Install) | As accurate as is available but to nearest year will suffice |
| 31) Luminaire manufacturer | Thorn | e.g. Philips, Thorn, Cree, Urbis etc. |
| 32) Luminaire model | R2L2 - S | e.g. Luma 2, Civiteq etc. |
| 35) Luminaire warranty expiry date | By Installer | |
| 36) Colour Temp | 3000k | e.g. warm white/neutral white and actual kelvin setting if available. |
| 38) Lumen output | 3590 | e.g. 5,000 lumens |
| 39) Lamp Type | LED | e.g. LED, SON, SOX etc. |
| 40) Wattage | 28w | nominal lamp wattage |
| 42 & 43 Lighting Control & Location | Photecell | e.g. photocell/time clock and individual/grouped |
| 56) Interface Box | NA | applies to lights on ESB poles / wall mounted mainly. |
| 60) Passive safe column | No | Yes/No |
| 62) Passive safe disconnection type | Fuse | Electronic/mechanical/fuse |
| 74) ESB Pole | No | Is light on an ESB pole Yes/No |
| 75) Alert Pole | NA | Applies to ESB poles |
| 76) Over/Under | No | Is bracket an over/under conductor type |
| 90) Lighting standard design | P3 | Design Class, e.g. P3 with S/P, M3, C4 |
| 96) Billable wattage | 28w | Applies to unmetered. Same as 40) if LED |
| 99) Switching Regime | Rural U15 - 35/18 | e.g. 35/18 or 70/30 |
| 101) co-ords of supply point E | 517580951 | of micro-pillar or connection point |
| 102) co-ords of supply point N | 597755920 | of micro-pillar or connection point |
| 103) Metered /Unmetered | Unmetered | |
| 104) Current GMPRN | Not Applicable | |
| 105,106) TMPRN /MPRN | Not Applicable | |
| | | |

Cork County Council minimum data requirements per light

| Data item (extracted from SEAI Attributes, Nov 2015) | Data inserted by Applicant | Explanation |
|--|---|---|
| 1) Street name/address | Proposed Housing Develoipment Knocknagree Co Cork | Name of Housing estate / Street name and address |
| 2) Road No. if on public Rd. | Off L1108 | e.g. L 1234 |
| 4) Village, Town or District | Knocknagree Co Cork | e.g. Mallow |
| 6) Unit Owner | Cork County Council | Name of payer of Energy Bills |
| 7) TII Lighting Unit | No | Yes/No. (Yes if on a national Route |
| 10) Unit Number | 12A | Tag Number on light |
| 11) Unit Type | Column | This is the type of structure used to mount the luminaire, e.g. column / wall mounted |
| 12) Unit Co-ordinate northing | 517578422 | ITM (Irish Transverse Mercator) format |
| 12) Unit Co-ordinate easting | 597769887 | ITM (Irish Transverse Mercator) format |
| 16) Column Cross-Section | 12A - Octagonal | Style and shape of the column. Generally octagonal tapered. |
| 17) Col Height | 6m | ground level, generally 5m, 6m, 8m, 10m or 12m. |
| 18) Column Material type | Steel | e.g. steel/aluminium/cast iron/wood. |
| 20) Column base type | Rooted | e.g. Rooted or flanged |
| 21) Column installation date | 12A -New Column To Be Installed | To the nearest year |
| 23) Bracket Material | Aluminium | e.g. steel, aluminium, cast iron |
| 24) Bracket Type | Demountable | integral/demountable |
| 25) Bracket Dimensions | | e.g. pole to, xm up and ym out. |
| 26) Number Brackets | Single | usually single but some cols have 2 or more |
| 27) Bracket Tilt | 0 | e.g. 0, 5, 10, 15 degrees tilt. |
| 28) Luminaire Height | 6m | bracket height. (or Can be measures with a distometer) |
| 29) Number Luminaires | 1 | Usually only one but a high mast could have up to 12 |
| 30) Luminaire Installation date | 2024 (New Install) | As accurate as is available but to nearest year will suffice |
| 31) Luminaire manufacturer | Thorn | e.g. Philips, Thorn, Cree, Urbis etc. |
| 32) Luminaire model | R2L2 - S | e.g. Luma 2, Civiteq etc. |
| 35) Luminaire warranty expiry date | By Installer | |
| 36) Colour Temp | 3000k | e.g. warm white/neutral white and actual kelvin setting if available. |
| 38) Lumen output | 3590 | e.g. 5,000 lumens |
| 39) Lamp Type | LED | e.g. LED, SON, SOX etc. |
| 40) Wattage | 28w | nominal lamp wattage |
| 42 & 43 Lighting Control & Location | Photecell | e.g. photocell/time clock and individual/grouped |
| 56) Interface Box | NA | applies to lights on ESB poles / wall mounted mainly. |
| 60) Passive safe column | No | Yes/No |
| 62) Passive safe disconnection type | Fuse | Electronic/mechanical/fuse |
| 74) ESB Pole | No | Is light on an ESB pole Yes/No |
| 75) Alert Pole | NA | Applies to ESB poles |
| 76) Over/Under | No | Is bracket an over/under conductor type |
| 90) Lighting standard design | P3 | Design Class, e.g. P3 with S/P, M3, C4 |
| 96) Billable wattage | 28w | Applies to unmetered. Same as 40) if LED |
| 99) Switching Regime | Rural U15 - 35/18 | e.g. 35/18 or 70/30 |
| 101) co-ords of supply point E | 517580951 | of micro-pillar or connection point |
| 102) co-ords of supply point N | 597755920 | of micro-pillar or connection point |
| 103) Metered /Unmetered | Unmetered | |
| 104) Current GMPRN | Not Applicable | |
| 105,106) TMPRN /MPRN | Not Applicable | |
| | | |

Cork County Council minimum data requirements per light

| Data item (extracted from SEAI Attributes, Nov 2015) | Data inserted by Applicant | Explanation |
|--|---|---|
| 1) Street name/address | Proposed Housing Develoipment Knocknagree Co Cork | Name of Housing estate / Street name and address |
| 2) Road No. if on public Rd. | Off L1108 | e.g. L 1234 |
| 4) Village, Town or District | Knocknagree Co Cork | e.g. Mallow |
| 6) Unit Owner | Cork County Council | Name of payer of Energy Bills |
| 7) TII Lighting Unit | No | Yes/No. (Yes if on a national Route |
| 10) Unit Number | 13A | Tag Number on light |
| 11) Unit Type | Column | This is the type of structure used to mount the luminaire, e.g. column / wall mounted |
| 12) Unit Co-ordinate northing | 517578422 | ITM (Irish Transverse Mercator) format |
| 12) Unit Co-ordinate easting | 597769887 | ITM (Irish Transverse Mercator) format |
| 16) Column Cross-Section | 12A - Octagonal | Style and shape of the column. Generally octagonal tapered. |
| 17) Col Height | 6m | ground level, generally 5m, 6m, 8m, 10m or 12m. |
| 18) Column Material type | Steel | e.g. steel/aluminium/cast iron/wood. |
| 20) Column base type | Rooted | e.g. Rooted or flanged |
| 21) Column installation date | 13A -New Column To Be Installed | To the nearest year |
| 23) Bracket Material | Aluminium | e.g. steel, aluminium, cast iron |
| 24) Bracket Type | Demountable | integral/demountable |
| 25) Bracket Dimensions | | e.g. pole to, xm up and ym out. |
| 26) Number Brackets | Single | usually single but some cols have 2 or more |
| 27) Bracket Tilt | 0 | e.g. 0, 5, 10, 15 degrees tilt. |
| 28) Luminaire Height | 6m | bracket height. (or Can be measures with a distometer) |
| 29) Number Luminaires | 1 | Usually only one but a high mast could have up to 12 |
| 30) Luminaire Installation date | 2024 (New Install) | As accurate as is available but to nearest year will suffice |
| 31) Luminaire manufacturer | Thorn | e.g. Philips, Thorn, Cree, Urbis etc. |
| 32) Luminaire model | R2L2 - S | e.g. Luma 2, Civiteq etc. |
| 35) Luminaire warranty expiry date | By Installer | |
| 36) Colour Temp | 3000k | e.g. warm white/neutral white and actual kelvin setting if available. |
| 38) Lumen output | 3590 | e.g. 5,000 lumens |
| 39) Lamp Type | LED | e.g. LED, SON, SOX etc. |
| 40) Wattage | 28w | nominal lamp wattage |
| 42 & 43 Lighting Control & Location | Photecell | e.g. photocell/time clock and individual/grouped |
| 56) Interface Box | NA | applies to lights on ESB poles / wall mounted mainly. |
| 60) Passive safe column | No | Yes/No |
| 62) Passive safe disconnection type | Fuse | Electronic/mechanical/fuse |
| 74) ESB Pole | No | Is light on an ESB pole Yes/No |
| 75) Alert Pole | NA | Applies to ESB poles |
| 76) Over/Under | No | Is bracket an over/under conductor type |
| 90) Lighting standard design | P3 | Design Class, e.g. P3 with S/P, M3, C4 |
| 96) Billable wattage | 28w | Applies to unmetered. Same as 40) if LED |
| 99) Switching Regime | Rural U15 - 35/18 | e.g. 35/18 or 70/30 |
| 101) co-ords of supply point E | 517580951 | of micro-pillar or connection point |
| 102) co-ords of supply point N | 597755920 | of micro-pillar or connection point |
| 103) Metered /Unmetered | Unmetered | |
| 104) Current GMPRN | Not Applicable | |
| 105,106) TMPRN /MPRN | Not Applicable | |
| | | |