

LiAS Design Notes

This preliminary design is produced by the Lighting Application Specialist (LiAS) team of Signify Ireland based on information supplied by the Customer for the purpose of identifying suitable products and costing the proposal. This design cannot be used for Construction, as this design does not purport to eliminate health and safety risks as a CDM Regulation risk assessment has not been undertaken.

Depending on the level of information received, a number of assumptions may have been applied in order to create an indicative lighting proposal and costing model, according to lighting industry guidelines and incorporating industry best practice methods. These assumptions are documented below and will require confirmation by the Principle Designer (which is not Signify Ireland) during the detailed design phase.


Project Specific Assumptions


- Where 'Lighting Classes' have not been provided/specified, the calculations have been produced using lighting class P4, P5, C4 and C3.
- A column height of 6m and 4.5m is utilised.
- Due to a bat sensitive area a 3000k colour temperature is used.
- A internal back louvre has been used on the lanterns near the open stream and green corridor.


Generic Assumptions (unless specifically informed differently)


- Preliminary Design proposals produced by the Signify LiAS Team are not to be used for installation purposes. It is the responsibility of the Principle Designer and/or Principle Contractor to ensure all Installation and Maintenance can be done in a safe manner, carried out by competent persons, based on their agreed Risk Assessments and Method Statements.
- The Luminaire Maintenance Factors have been based on 6-year cleaning intervals within an E3/E4 Environmental Zone and it is assumed that lamp/luminaire failures will be replaced on a 'spot replacement'.
- Energy consumptions have been based on the luminaire/s having Constant Light Output (CLO) enabled and the quoted wattage/s are the average over 100,000 hours (without dimming).
- The design calculations produced by Signify do not account for the effect obstructions, such as trees, will cause.
- Signify has not been provided with utility plans showing Buried, Above Ground or Overhead utilities. Therefore, all column/luminaire locations are indicative and are subject to review/verification by the Principle Designer.
- Unless stated otherwise, Signify has not visited site. Therefore, all column/luminaire locations are indicative and are subject to an onsite verification arranged/performed by the Principle Designer.
- Signify has not produced any Private Cable Network electrical calculations or reviewed the DNO network to confirm power supplies to the proposed lighting.
- Signify has not performed any asset condition testing and therefore assumes that any existing lighting columns/wall mounted brackets are structurally capable of supporting the weight & windage of the proposed luminaire/s. This must be verified by the Principle Designer before installation works commence.
- Unless stated otherwise, Signify is not supplying the new lighting columns (including brackets etc) and therefore it is the responsibility of the Principle Designers to confirm that all proposed equipment is suitable for the intended locations (e.g. raise & lower, ground condition, foundation type, saline environment, etc).
- Unless stated otherwise, luminaires will be supplied in their standard colour.


Luminaire Schedule

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LumiStreet 4.2KLM DW10 WW @6m
 PHILIPS BGP391 DW10
 lamp(s): LED-HB 5.2S 730
 candela file 'LumiStreet Gen2 Micro_BGP391_DW10_4200_20LED_5.2S_CLO_L90_730.ies'
 1 lamp(s) per luminaire, 4200 initial lumens per lamp
 Maintenance Factor = 0.760, watts per luminaire = 26
 Outreach (from mounting axis to photometric center)= 400 mm
 tilt angle= 5 deg
 mounting height= 6 m
 number locations= 32, number luminaires= 32
 kw all locations= 0.8
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LumiStreet 4.2KLM DW10 +BL2@6m
 PHILIPS BGP391 DW10 BL2
 lamp(s): LED-HB 5.2S 730
 candela file 'LumiStreet Gen2 Micro_BGP391_DW10 BL2_4200_20LED_5.2S_CLO_L90_730.ies'
 1 lamp(s) per luminaire, 4200 initial lumens per lamp
 Maintenance Factor = 0.760, watts per luminaire = 26
 Outreach (from mounting axis to photometric center)= 400 mm
 tilt angle= 5 deg
 mounting height= 6 m
 number locations= 18, number luminaires= 18
 kw all locations= 0.5
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LumiStreet 1.2KLM DW10 WW@4.5m
 PHILIPS BGP391 DW10
 lamp(s): LED-HB 5.2S 730
 candela file 'LumiStreet Gen2 Micro_BGP391_DW10_1200_6LED_5.2S_CLO_L90_730.ies'
 1 lamp(s) per luminaire, 1200 initial lumens per lamp
 Maintenance Factor = 0.760, watts per luminaire = 8
 Outreach (from mounting axis to photometric center)= 400 mm
 tilt angle= 5 deg
 mounting height= 4.5 m
 number locations= 10, number luminaires= 10
 kw all locations= 0.1
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LumiStreet 1.2KLM DW10 WW +BL2
 PHILIPS BGP391 DW10 BL2
 lamp(s): LED-HB 5.2S 730
 candela file 'LumiStreet Gen2 Micro_BGP391_DW10 BL2_1200_6LED_5.2S_CLO_L90_730.ies'
 1 lamp(s) per luminaire, 1200 initial lumens per lamp
 Maintenance Factor = 0.760, watts per luminaire = 8
 Outreach (from mounting axis to photometric center)= 400 mm
 mounting height= 4.5 m
 number locations= 19, number luminaires= 19
 kw all locations= 0.2
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LumiStreet 2KLM DN10 WW @6m
 PHILIPS BGP391 DN10
 lamp(s): LED-HB 5.2S 730
 candela file 'LumiStreet Gen2 Micro_BGP391_DN10_2000_10LED_5.2S_CLO_L90_730.ies'
 1 lamp(s) per luminaire, 2000 initial lumens per lamp
 Maintenance Factor = 0.760, watts per luminaire = 13
 Outreach (from mounting axis to photometric center)= 400 mm
 mounting height= 6 m
 number locations= 3, number luminaires= 3
 kw all locations= 0.0



Lighting Proposal Terms and Conditions of Use
 These terms apply to the use of this preliminary proposal produced by Signify UK. This "Proposal" is understood to mean this document, a CAD drawing, lighting calculations, written documents, verbal conversations or any medium used to demonstrate or communicate the proposed lighting scheme using products from Signify's brands. A "Customer" is the person or organisation for whom the Proposal is intended. The "CDM Regulations" means The Construction, Design and Management Regulations 2015, the Safety, Health & Welfare at Work Act 2005, The Construction (Design & Management) Regulations (Northern Ireland) 2015.
 This Proposal is for guidance only and cannot be relied upon for purposes of installation or Health and Safety.
 The supply and installation of this lighting scheme are subject to a contract being agreed between Customer and Signify.

PROPOSAL
 (NOT FOR CONSTRUCTION)

Rev	DSR no.	Comment	Date	LiAS	KAM
0	D-344179	INITIAL PROPOSAL	03.03.20	CBJ	DM
1	D-346918	NEW LAYOUT	17.03.20	CBJ	DM
2	D-349207	CORRECT NEW LAYOUT	23.03.20	CBJ	DM
3	D-370587	NEW LAYOUT	16.09.20	CBJ	DM
3a	D-370587	AMEND TO BS5489-1:2020	24.09.20	CBJ	DM
4	D-373728	NEW LAYOUT/ADDITIONAL AREAS/COMMENTS	06.10.20	CBJ	DM
4a	D-373728	COMMENTS	08.10.20	CBJ	DM

Project Number	0400435131	Project Name	Drumakilla Housing Development
Scale & Sheet Size	NTS @ A3	Drawing Name	LiAS DESIGN NOTES & LUMINAIRE SCHEDULE
Sheet No	DWG 00		