

LIAS Design Notes

This preliminary design is produced by the Lighting Application Specialist (LIAS) team of Signify UK 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 UK) during the detailed design phase.

Project Specific Assumptions

- Roads within the site will be private with the exception of the S278 (road element outside red line boundary).
- Main spine road and secondary road lit to an assumed P5.
- A column height of 6m is utilised on the Main Spine Road and 4m on the secondary road.

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.

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)

Luminaire Schedule



LumiStreet 3KLM DM50 NW @6m
PHILIPS BGP291 DM50
lamp(s): LED-HB 5.1S 740
candela file 'LumiStreet Gen2 Micro_BGP291_DM50_3000_20LED_5.1S_CLO_L90_740.ies'
1 lamp(s) per luminaire, 3000 initial lumens per lamp
Maintenance Factor = 0.760, watts per luminaire = 18
Outreach (from mounting axis to photometric center)= 400 mm
tilt angle= 5 deg
mounting height= 6 m
number locations= 2, number luminaires= 2
kw all locations= 0.0



LumiStreet 2.8KLM DM50 NW @6m
BGP615 DM50
lamp(s): LED-HB 5.1S
candela file 'Luma Micro_BGP615_DM50_2800_10LED_5.1S_CLO_L90_NW.ies'
1 lamp(s) per luminaire, 2800 initial lumens per lamp
Maintenance Factor = 0.760, watts per luminaire = 17
Outreach (from mounting axis to photometric center)= 400 mm
tilt angle= 5 deg
mounting height= 6 m
number locations= 5, number luminaires= 5
kw all locations= 0.1



LumiStreet 1.4KLM DM50 @4m
PHILIPS BGP291 DM50
lamp(s): LED-HB 5.1S 740
candela file 'LumiStreet Gen2 Micro_BGP291_DM50_1400_6LED_5.1S_CLO_L90_740.ies'
1 lamp(s) per luminaire, 1400 initial lumens per lamp
Maintenance Factor = 0.760, watts per luminaire = 10
Outreach (from mounting axis to photometric center)= 400 mm
tilt angle= 5 deg
mounting height= 4 m
number locations= 12, number luminaires= 12
kw all locations= 0.1

Rev	DSR no.	Comment	Date	LIAS	KAM	Project Number	Drawing Name
0	D-321213	INITIAL PROPOSAL	19.09.19	CBJ	JIN	0244064636	North Bersted
1	D-339619	AMEND SPEC	27.01.20	CBJ	JIN	Scale & Sheet Size	
2	D-344273	NEW LAYOUT	24.02.20	CBJ	JIN	NTS @ A3	LIAS DESIGN NOTES & LUMINAIRE SCHEDULE
3	D-345757	COMMENTS	04.03.20	CBJ	JIN		
						Sheet No	
						DWG 00	

