

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 Principal Designer (which is not Signify UK) during the detailed design phase.

Project Specific Design Comments:

- Where 'Lighting Classes' have not been provided/specified, the calculations have been produced using Lidl Specification lighting classes
- Where column heights have not been provided/specified, these have been assumed to be 6m.
- Where wall/ceiling mounting heights have not been provided/specified, these have been assumed to be 3.25m.
- It has been assumed that luminaires on columns will be mounted post-top or on 0.5m outreach brackets.
- It has been assumed that canopy luminaires will be ceiling mounted.
- It has been assumed that LL-E/LL-E EM luminaires will be wall mounted.
- Signify has not undertaken any emergency lighting calculations. Luminaires marked as emergency fittings are for indicative purposes only. It is the responsibility of the Principal Designer to ensure emergency lighting calculations are performed and that all emergency evacuation routes are lit to a suitable standard.
- Preliminary Design proposals produced by the Signify LiAS Team are not to be used for installation purposes. It is the responsibility of the Principal Designer and/or Principal 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 Principal 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 Principal 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 Principal 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 Principal 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

Luminaire Schedule			
Symbol	Qtys Lanterns	Luminaire Type	Lumens
	11	1 X LED Luminaire and 1 x 6 m Column with 0.5m bracket. (Lantern Ref: LL-A)	4900
	2	2 X LED Luminaires and 1 x 6 m Column with 0.5m bracket. (Lantern Ref: LL-A)	4900
	1	1 X LED Luminaire and 1 x 6 m Column with 0.5m bracket. (Lantern Ref: LL-C)	7500
	5+5	2 X LED Luminaires and 1 x 6 m Column with 0.5m bracket. (Lantern Ref: LL-C + LL-A)	7500 4900
	5	1 X 1300mm LED Luminaire Luminaire mounted at 3.1m. (Luminaire Ref: LL-E) with LiDL adjustable bracket.	2600
	16	1 X 1300mm LED Luminaire Luminaire mounted at 3.1m. (Luminaire Ref: LL-E EM-EL3) with LiDL adjustable bracket.	360
	17	1 X Recessed Downlighter (Luminaire Ref: LL-CANOPY)	2260
	1	1 X Recessed Downlighter (Luminaire Ref: LL-CANOPY EM-EL3)	
	8	Columns with backplates installed	

All Lanterns installed at tilt angles indicated adjacent to the luminaire positions indicated on the drawing.
Where possible all columns should be placed 0.75m away from the curb line.
Perimeter lighting to be considered by client including any emergency lighting requirements.
Footpaths/Stairs/Ramps not considered in these proposals.
Where required Lighting columns should be protected by barriers from vehicle impact damages.
These lighting values do not take into account any obstructions from trees, vehicles, objects etc.

NOTE: “Signify has not undertaken any emergency lighting calculations. Luminaires marked as emergency fittings are for indicative purposes only. It is the responsibility of the Principle Designer to ensure emergency lighting calculations are performed and that all emergency evacuation routes are lit to a suitable standard.”

Calculation Summary based on maintenance factor of 0.79								
Label	Units	Avg	Min	Max	Min/Avg	Height	Grid Points	UWLR
Main Carpark	Lux	15.3	4.7	54.6	0.31	0m	1.5m	0.00
Adjacent Carpark	Lux	15.4	4.8	39.0	0.31	0m	1.5m	0.00

Signify Contacts:

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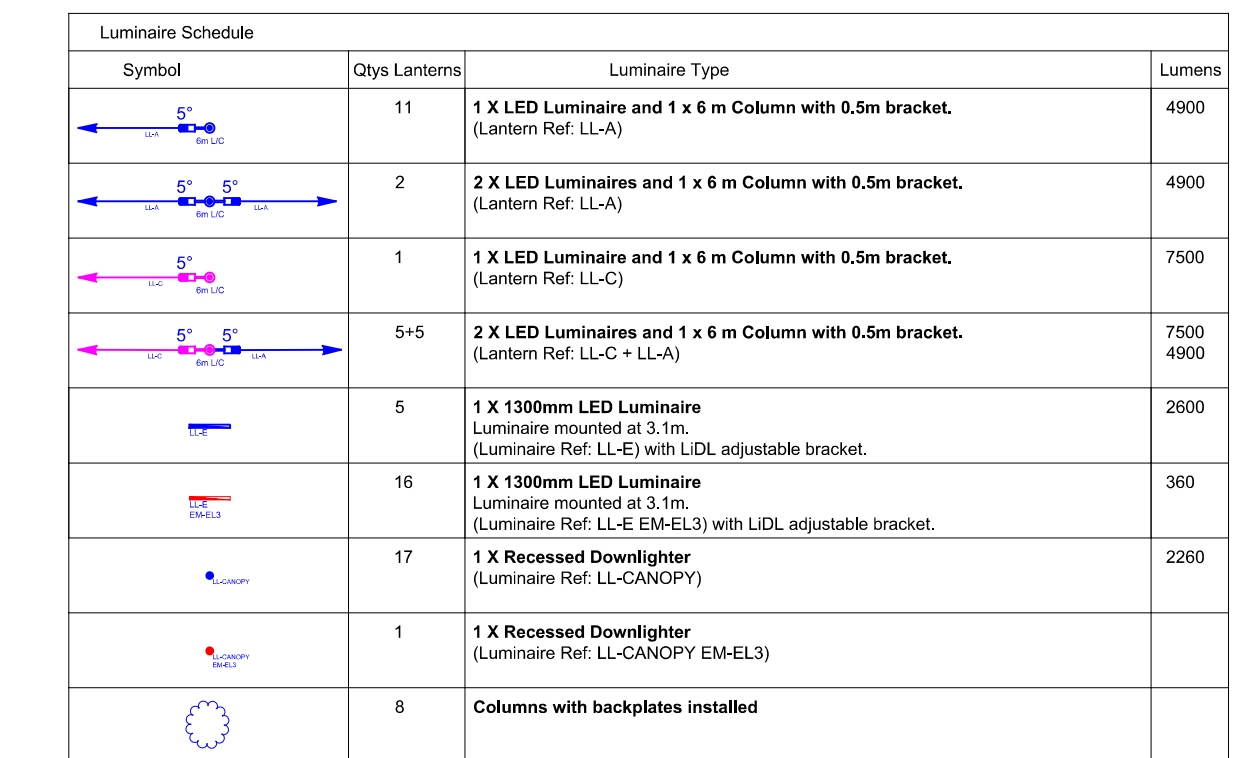
Lighting Proposal Terms and Conditions of Use
These terms apply to the use of this preliminary proposal produced by Signify UK. This “**Proposal**” is understood to mean this document, a CAD drawing, lighting calculations, written documents, verbal conversations or any medium used to demonstrate or communicate 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-567758	INITIAL PROPOSAL	13/05/24	AG	RF
1	D-589513	NEW SITE PLAN DRAWING	20/09/24	AG	RF

Project Number
0400995236
Scale & Sheet Size
NTS @ A3
Sheet No
DWG 00

Project Name
LiDL Newport Glan Llyn
Drawing Name
LiAS DESIGN NOTES & LUMINAIRE SCHEDULE



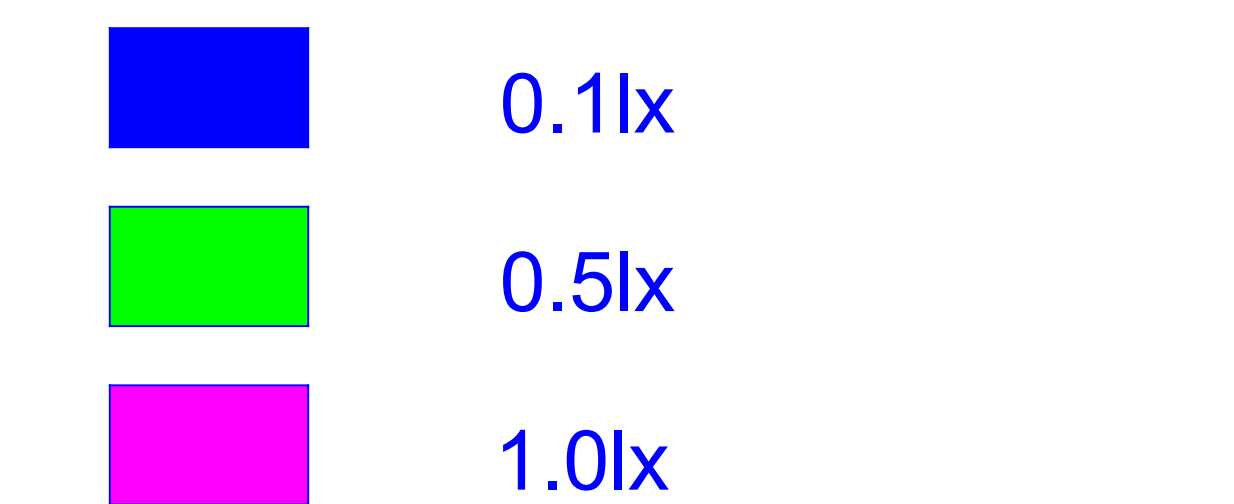
All Luminaires installed at tilt angles indicated adjacent to the luminaire positions indicated on the drawing. Where possible all columns should be placed 0.75m away from the curb line. Pedestrian lighting to be considered by client including any emergency lighting requirements. Forgotho/Sunco lamps not to be used in these proposals. Where required Lighting columns should be protected by barriers from vehicle impact damages. These lighting values do not take into account any obstructions from trees, vehicles, etc/ect.

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Horizontal Spill Light -
Maintenance Factor 1

Spill light Isoline Legend



Project Name	LiDL Newport Glan Llyn
Drawing Name	PROPOSED LIGHTING LAYOUT

Notes:

- 1) Unless agreed otherwise, the lighting proposal produced by the Lighting Application Specialist (LiAS) team of Philips Lighting UK&I is not intended for construction purposes, as it does not take into account the elimination of health and safety risks at this stage. For further details please refer to sheet number **DWG 00**
- 2) Do not scale for this drawing

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