

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.

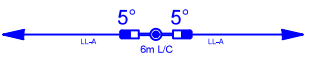
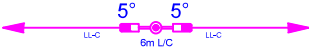
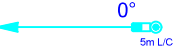
Project Specific Assumptions

- Carpark Lighting levels as per LiDL specification.
- Plant lighting to be coordinated with plant layout.
- Plant wall heights assumed.
- Exterior emergency route assumed.

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

Luminaire Schedule			
Symbol	Qtys Lanterns	Luminaire Type	Lumens
	6	2 X LED Luminaires and 1 x 6 m Column with 0.5m bracket. (Lantern Ref: LL-A)	4900
	10	1 X LED Luminaire and 1 x 6 m Column with 0.5m bracket. (Lantern Ref: LL-A)	4900
	6	2 X LED Luminaires and 1 x 6 m Column with 0.5m bracket. (Lantern Ref: LL-C)	7500
	1	1 X Philips LumiStreet LED Luminaire and 1 x 5 m Column post top mounted. Luminaire BGP291LED20-4S/740 I DW50 7024 D9 76	2000
	9	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
	12	1 X Recessed Downlighter (Luminaire Ref: LL-CANOPY)	2260
	1	1 X Recessed Downlighter (Luminaire Ref: LL-CANOPY EM-EL3)	

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.

Calculation Summary base on maintenance factor of 0.79								
Label	Units	Avg	Min	Max	Min/Avg	Height	Grid Points	UWLR
Main Carpark	Lux	14.9	4.4	63.5	0.29	0m	1.5m	0.00

Spill light Isoline Legend	
	0.1lx
	0.2lx
	0.5lx
	1.0lx
	2.0lx
	5.0lx

Signify Contacts

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Rev	DSR no.	Comment	Date	LiAS	KAM	Project Number	Project Name
3	D-377363	NEW DRAWING	26/10/20	HSR / AGG	RF	000000000	LiDL Store Harvant
						Scale & Sheet Size	Drawing Name
						NTS @ A3	LiAS DESIGN NOTES & LUMINAIRE SCHEDULE
						Sheet No	
						DWG 00	

PROPOSAL
(NOT FOR CONSTRUCTION)

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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.