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.

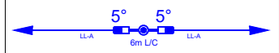
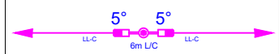
Project Specific Assumptions

- Where 'Lighting Classes' have not been provided/specified, the calculations have been produced using lighting class X.
- Where column heights have not been provided/specified, these have been assumed to be Xm.
- It has been assumed that luminaires will be mounted post-top [on Xm outreach brackets).

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
	8	**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-C)	7500
	4	**1 X LED Luminaire and 1 x 6 m Column with 0.5m bracket.** (Lantern Ref: LL-C)	7500
	3	**1 X 1300mm LED Luminaire** Luminaire mounted at 3.1m. (Luminaire Ref: LL-E) with LiDL adjustable bracket.	2600
	19	**1 X 1300mm LED Luminaire** Luminaire mounted at 3.1m. (Luminaire Ref: LL-E EM-EL3) with LiDL adjustable bracket.	360
	16	**1 X Recessed Downlighter** (Luminaire Ref: LL-CANOPY)	2260
	1	**1 X Recessed Downlighter** (Luminaire Ref: LL-CANOPY EM-EL3)	
	1	**1 X Surface mounted Bulkhead** **B5D-ELD** **WL131V LED12S/840 PSED WH ELD3**	
	12	**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.

Calculation Summary based on maintenance factor of 0.79								
Label	Units	Avg	Min	Max	Min/Avg	Height	Grid Points	UWLR
Main Carpark	Lux	16.4	5.2	99.1	0.31	0m	1.5m	0.00

Signify Contacts

Richard Fortune, Key Account Manager - 07787 004900

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-263541	INITIAL PROPOSAL	19/10/18	HSR / AGG	JW
1	D-285952	New Site Plan Drawing	27/02/19	HSR / AGG	JW
2	D-0	New Site Plan Drawing & HTC Comments	13/03/19	HSR / AGG	JW
3	D-0	HTC Comments	08/04/19	HSR / AGG	JW
4	D-372174	New Site Plan Drawing	25/09/20	HSR / AGG	JW
5	D-422972	New Site Plan Drawing	08/09/21	HSR / AGG	RF
6	D-422972	Stairs Lighting included.	27/09/21	HSR / AGG	RF

Project Number: 0400502017
Scale & Sheet Size: NTS @ A3
Sheet No: DWG 00

Project Name: LiDL New Hey Road Carpark
Drawing Name: LiAS DESIGN NOTES & LUMINAIRE SCHEDULE



Key:

Luminaire Schedule			
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Spill light Isoline Legend

- 0.1lx
- 0.2lx
- 0.5lx
- 1.0lx
- 2.0lx
- 5.0lx

Horizontal Spill Light - Maintenance Factor 1

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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Project Number
0400502017

Scale & Sheet Size
1:200 @ A0

Sheet No
DWG 01

Project Name
LiDL New Hey Road Carpark

Drawing Name
PROPOSED LIGHTING LAYOUT