

# 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

### Illumination Levels (Requirements):

Sales Floor	= 750Lx-1000Lx @ 0.85 Mtrs A.F.F.L
Warehouse	= 200Lx @ 0.00 Mtrs A.F.F.L
Bakery/Prep Rms	= 500Lx @ 0.85 Mtrs A.F.F.L
Office	= 300Lx @ 0.75 Mtrs A.F.F.L
Staff Rms	= 200Lx @ 0.75 Mtrs A.F.F.L
WC	= 200Lx @ 0.00 Mtrs A.F.F.L
Corridors/Stairs	= 100Lx @ 0.00 Mtrs A.F.F.L /Stair Tread.

**Maintenance Factor:** = 0.80 All Areas.

### Reflectance's:

Sales Floor	= 70,50,20
Warehouse	= 50,40,20
Bakery/Prep Rms	= 70,50,20
Office /Staff Rms	= 70,50,20
WC	= 70,50,20

### Luminaire Mounting Heights To Be Used If No Ceiling Heights Provided:

Sales Floor	=3.0Mtrs
Warehouse	=2.8Mtrs
Bakery/Prep Rms	=2.4Mtrs
Office/Staff Rms	=2.4Mtrs
WC	=2.4Mtrs

### 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.
- Preliminary Design proposals are based on limited information. In the event a proposed luminaire location is not feasible, a revised calculation should be requested.
- Unless stated otherwise the Preliminary Design proposals must not be treated as a fully compliant Emergency Lighting Design. Whilst the LiAS team will include Emergency Lighting luminaires to achieve >0.5 lux in Anti-panic areas (spaces over 60m2) and >1 lux on corridors & stairs. The proposal is unlikely to include illumination of points of emphasis and emergency exit signs, as the fire safety strategy will not be known.
- The design calculations will assume a room surface maintenance factor (RSMF) based on 2-year cleaning intervals and that lamp/luminaire failures will be replaced on a 'spot replacement'
- Unless stated otherwise, Signify has not visited site. Therefore, all proposed luminaire locations are indicative and are subject to an onsite verification arranged/performed by the Principle Designer.
- Unless specified otherwise, the luminaires proposed by the LiAS Team will have the highest level of control possible (E.g. Dali, mains dimming, mains switching) to ensure sufficient budget is allocated at non-binding stage.
- Unless stated otherwise, luminaires will be supplied in their standard colour.

# Luminaire Schedule

Product Code	Part Number	Description	Unit	DNU	DNU	DNU	Actual Qty
<b>SALES FLOOR - LED Sales Floor Lighting</b>							
A1/3.4/WB	91077022633	LL234X 90S/840 1x PSD WB 9x1.5 - 57w, 158 LM/W, 3400m Length, 9000Lm, 4000k (cool white), DALI, Self-Contained Coreline Trunking System, Wide Beam, Finish White					23
A2/1.7/WB	910770221940	LL217X 45S/840 1x PSD WB 9x1.5 - 27.5w, 164 LM/W, 1700m Length, 4500Lm, 4000k (cool white) DALI, Self-Contained Coreline Trunking System, Wide Beam, Finish White					5
ST	910925867563	LL2002 MB-SW 2xEP CU9 WH - 9 wires starter kit for Coreline Trunking, Finish White					9
SB	910925867566	LL2002 MB-SW WH (2PCS) - Mounting bracket for suspension wire (2 pce) for Coreline Trunking, Finish White					25
SW	910925867571	LL2002 SW2-3000 - Steel wire for suspension (3 lengths) for Coreline Trunking					25
E4D OA	919013004995	PROF REC SPOT LED25 OA NM3 ELD IP20 - 3w Recessed standalone emergency spot, Interchangeable lens open area & corridor (240lm open area or 220lm corridor), 5000K, Non-Maintained, DALI feedback 3h emergency, IP20					1
E4D COR	919013004995	PROF REC SPOT LED25 CO NM3 ELD IP20 - 3w Recessed standalone emergency spot, Interchangeable lens open area & corridor (240lm open area or 220lm corridor), 5000K, Non-Maintained, DALI feedback 3h emergency, IP20					12
E9D COR	919013004996	PROF SM SPOT LED25 CO NM3 ELD IP65 - 3w Surface mounted emergency, Interchangeable lens open area & corridor (290lm open area or 240lm corridor), 5000K, Non-Maintained, DALI feedback 3h emergency, IP20					1
E15D-U	919013005006	PROF EM BLADE SIGN WL/CM 30M M3 ELD UP - 3w, Wall or ceiling mounted emergency exit sign, 30m viewing distance, DALI feedback 3h emergency, IP20, Supplied with ISO7010 Arrow up legend.					7
E15D-SUSP	919013005008	PROF EM BLADE SIGN / SUSPENSION ADAPTOR - Accessory wire suspension adaptor kit (max cable length 5ft)					7
B17	911401852483	BVP164 LED24/840 PSU 20W SWB CE - 20w, 120 LM/W, 2400Lm, 4000k (cool white), Symmetrical Optic, Ledinaire Floodlight Mini					1
<b>BACK OF HOUSE - LED Lighting</b>							
A1D	910505103402	BN126C LED41S/840 PSD L1200 - 34w, 121 LM/W, 1200mm Length, 4100Lm, 4000k (cool white), DALI, CoreLine Batten, Surface Mounted LED					13
A3D	911401833784	BN126C LED25S/840 PSU L1200 - 18w, 130 LM/W, 1200mm Length, 2500Lm, 4000k (cool white), DALI, CoreLine Batten, Surface Mounted LED					2
B3D	910505100053	WT120C G2 LED40S/840 PSD L1200 - 30w, 133 LM/W, 1200mm Length, 4000Lm, 4000k (cool white), DALI, CoreLine Waterproof, Surface Mounted LED, IP65 Linear Luminaire					2
B6D	919913999839	SM BKD LED9S/840 PSD L370 NM3 ELD surface mounted, Emergency Non-Maintained LED bulkhead, IP65, 950 high lumen output unit in mains operation and 650 lumen output in emergency operation					4
B6D-120	919013004999	PROF SM HO BKD LED120/850 NM3 ELD IP65 surface mounted, Emergency Non-Maintained LED bulkhead, IP65, 1200 lumen output in emergency operation					6
E4D OA	919013004995	PROF REC SPOT LED25 OA NM3 ELD IP20 - 3w Recessed standalone emergency spot, Interchangeable lens open area & corridor (240lm open area or 220lm corridor), 5000K, Non-Maintained, DALI feedback 3h emergency, IP20					1
E8D-U	919013005001	PROF EM WL EXIT SIGN 30M M3 ELD ISO UP - 3w Surface mounted Exit Sign Box (wall and semi-recessed mounting options), 30m viewing distance, IP40 & IK07 rating, DALI feedback 3h emergency. Supplied with ISO7010 Arrow 'Up' legend.					1
B12D	911401880781	RC136B 31S_37S_43S/840 PSD W60L60 OC - 31w, 140 LM/W, 4300 Lm, 4000k (cool white), DALI, Recessed LED 600x600, Office Compliant, Coreline Luminaire					2
PB	910925867569	LL2002 PB WH (SPCS) - Profile bracket (5 pce) for Coreline Trunking, Finish White (For use when mounting to ceiling profile T-Bar)					35
B16-AS	911401555231	BVP110 LED42/NW A - 38w, 111 LM/W, 4200Lm, Neutral White, Non Dimming, Asymmetrical beam, surface mounted flood, CoreLine Tempo LED					5
<b>Back Of House</b>							
B5D	910505101539	WL140V LED20S/840 PSED WH - 22w, 100 LM/W, 2200 Lm, 4000k (cool white), DALI, Coreline Wallmount Bulkhead, Finish White					8
B5D - ELD	919013004843	WL140V LED20S/840 PSED WH ELD3 - 2200 Lm, 4000k (cool white), DALI, Coreline Wallmount Bulkhead, Finish White, with Integral 3Hr Emergency					4
E15D-U	919013005006	PROF EM BLADE SIGN WL/CM 30M M3 ELD UP - 3w, Wall or ceiling mounted emergency exit sign, 30m viewing distance, DALI feedback 3h emergency, IP20, Supplied with ISO7010 Arrow up legend.					1
E15D-SUSP	919013005008	PROF EM BLADE SIGN / SUSPENSION ADAPTOR - Accessory wire suspension adaptor kit (max cable length 5ft)					1
ED6	919013004998	PROF SM BKD LED25 EXIT SIGN M3 ELD IP65 - 2w, Surface mounted emergency bulkhead, 200lm output, 5000K, Maintained or non-maintained selectable, DALI feedback 3h emergency, includes legend kit, IP55					7

NOTE: ED6 installed without legends unless indicated on the drawing.

### EMERGENCY LIGHTING NOTES:

- Locations of fire fighting equipments/call points & FAP taken from the CAD drawing (unless survey provided). All points of emphasis (POE) mounting heights and their sizes have been assumed.
- All emergency downlighters to be orientated as indicated on the drawing with arrows.
- All Emergency exit signs to be suspended/mounted between 2m-2.5mtrs.

### Signify Lighting Contact:

Neil Unitt  
Project Manager - 07557 31 8924



### 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	Project Number	Project Name
0	D-557773	INITIAL PROPOSAL	11/03/24	HSR	NU	0400975239	Co-Op Fulbourn
1	D-557773	REVISED FOR COMMENTS RECEIVED.	21/03/24	HSR	NU		
2	D-557773	PROPOSAL REVISED FOR NEW DRAWING	16/04/24	HSR	NU		
						Scale & Sheet Size	Drawing Name
						NTS @ A3	LiAS DESIGN NOTES & LUMINAIRE SCHEDULE
						Sheet No	
						DWG 00	

