

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
		SALES FLOOR - LED Sales Floor Lighting					
A1/3.4/WB	910770222633	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					20
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					4
ST	910925867563	LL200Z MB-SW 2xEP CU9 WH - 9 wires starter kit for Coreline Trunking, Finish White					7
SB	910925867566	LL200Z MB-SW WH (2PCS) - Mounting bracket for suspension wire (2 pce) for Coreline Trunking, Finish White					25
SW	910925867571	LL200Z 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					4
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					5
E9D-H OA	919013004997	PROF SM SPOT LED45 OA NM3 ELD IP65 - 6w Surface mounted emergency, Interchangeable lens open area & corridor (450lm open area or 450lm corridor, 5000K, Non-Maintained, DALI feedback 3h emergency, IP20					1
E9D-H COR	919013004997	PROF SM SPOT LED45 CO NM3 ELD IP65 - 6w Surface mounted emergency, Interchangeable lens open area & corridor (450lm open area or 450lm 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
E15D-R/L	919013005012	PROF EM BLADE EXIT LEGEND ISO LEFT/RIGHT - ISO7010 Arrow left and right legend, 30m viewing distance. [Legend kit for use with following exit signage: PROF EM BLADE SIGN WL/CM 30M M3 ELD]					4
		BACK OF HOUSE - LED Lighting					
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					1
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 LED95/840 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					5
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					3
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, IP65					4
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 315_375_435/840 PSD W60L60 OC - 31w, 140 LM/W, 4300 Lm, 4000k (cool white), DALI, Recessed LED 600x600, Office Compliant, Coreline Luminaire					2
B17	911401852483	BVP164 LED24/840 PSU 20W SWB CE - 20w, 120 LM/W, 2400Lm, 4000k (cool white), Symmetrical Optic, Ledinaire Floodlight Mini					6
PB	910925867569	LL200Z PB WH (5PCS) - Profile bracket (5 pce) for Coreline Trunking, Finish White (For use when mounting to ceiling profile T-Bar)					35

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. Fire Extinguisher MH (base) @ 0.3m and MCP @ 1.1m
- Obstructions not considered in the POE lighting levels calculations.
- 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.
- It is responsibility of the contractor to check all POE locations identified during lighting calculations and to notify Signify of any changes or missed locations.

← COR → All emergency downlighters to be orientated as indicated on the drawing with arrows.

Signify Lighting Contact:

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LIGHTING DESIGN - INFORMATION REQUIRED

Certain assumptions may be made during the lighting design process when required information is unavailable. It is the contractor's primary responsibility to review these assumptions, confirm their accuracy, and provide the necessary details to ensure that the final lighting drawings and bill of materials are precise and meet project requirements.

Contractor's Responsibilities:

The contractor must review and supply the following information to support an accurate and effective lighting design:

- **Ceiling Heights:** Confirm all ceiling heights.
- **Ceiling Types:** Verify the type of ceiling (e.g., suspended T-Bar, plasterboard, or solid slab).
- **Obstruction Heights:** If present confirm toilet cubicle heights. (Full height to ceiling or not).
- **Critical Element Locations:** Provide precise locations for fire call points, fire alarm panels, fire extinguishers, distribution boards, and first aid signs.
- **Fire Escape Routes:** Define all fire escape routes, including exterior emergency pathways.
- **Fire Strategy:** Submit a comprehensive fire strategy drawing.
- **Emergency Signage:** Review and approve the proposed positions and legends for emergency escape signs.
- **Exterior Plant Locations:** Specify the locations of exterior plant equipment.
- **Critical Lighting Requirements:** Identify critical equipment or tasks requiring enhanced emergency lighting coverage.

By meeting these responsibilities, the contractor plays a crucial role in ensuring the lighting design is complete, accurate, and compliant with standards and project requirements. Failure to provide the required information may compromise the effectiveness and compliance of the final design.



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								Scale & Sheet Size	Drawing Name
								NTS @ A3	LiAS DESIGN
								Sheet No	INFORMATION
								DWG 00	

[illegible]

Note: Contractor to advise 'Signify' of any critical Exterior plant that requires enhanced emergency lighting. This has not been considered within the emergency lighting proposal.

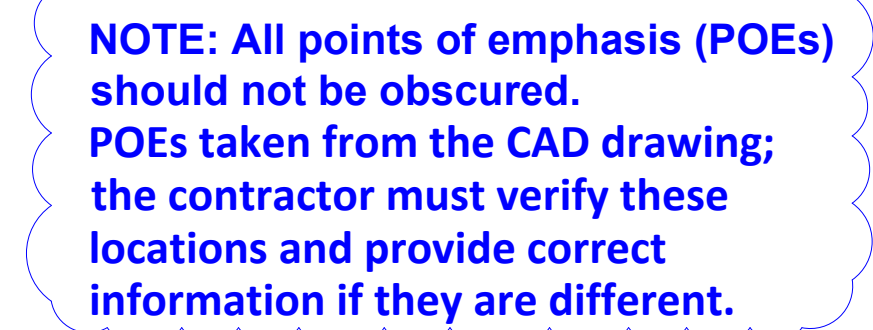
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Drawing Name

**PROPOSED LIGHTING
LAYOUT**



NOTE: All Emergency Exit signage positions to be coordinated alongside Co-Op Fire Exit strategy. Exact locations to be coordinated by on-site installing contractor.

Rev	DSR no.		Date	LIAS	KAM
0	D-6206094	INITIAL LIGHTING PROPOSAL	02/05/25	HSR	JH
1	D-6206094	LIGHTING PROPOSAL REVISED FOR COMMENTS	18/06/25	HSR	JH

PROPOSAL

(NOT FOR CONSTRUCTION)

Notes:

- 1) Unless agreed otherwise, the lighting proposal produced by the Lighting Application Specialist (LIAS) team of Signify 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