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

NOTE: Ceiling heights based on information provided.

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					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					3
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 LED2S 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					2
E4D COR	919013004995	**PROF REC SPOT LED2S 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					7
E9D-H COR	919013004997	**PROF SM SPOT LED4S 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					2
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.					9
E15D-SUSP	919013005008	**PROF EM BLADE SIGN / SUSPENSION ADAPTOR -** Accessory wire suspension adaptor kit (max cable length 5ft)					9
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]					1
		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					14
A2D	911401834384	**BN126C LED35S/840 PSU L1500** - 25.5w, 130 LM/W, 1500mm Length, 3500Lm, 4000k (cool white), DALI, CoreLine Batten, Surface Mounted LED					1
A3D	911401833784	**BN126C LED25S/840 PSU L1200** - 18w, 130 LM/W, 1200mm Length, 2500Lm, 4000k (cool white), DALI, CoreLine Batten, Surface Mounted LED					4
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					3
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					11
ED6	919013004998	**PROF SM BKD LED2S 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					7
E4D OA	919013004995	**PROF REC SPOT LED2S 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					3
B17	911401852483	**BVP164 LED24/840 PSU 20W SWB CE** - 20w, 120 LM/W, 2400Lm, 4000k (cool white), Symmetrical Optic, Ledinaire Floodlight Mini					1
SMB	910925867568	**LL200Z SMB WH (5PCS) -** Surface mounting brackets (5 pce) for Coreline Trunking, Finish White (For use when mounting trunking directly to a ceiling using a screw					35
		Back Of House					
B4D	910505100072	**WT120C G2 LED60S/840 PSD L1500** - 45w, 133 LM/W, 1500mm Length, 6000Lm, 4000k (cool white), DALI, CoreLine Waterproof, Surface Mounted LED, IP65 Linear Luminaire					1
B5D	910505101539	**WL140V LED20S/840 PSED WH** - 22w, 100 LM/W, 2200 Lm, 4000k (cool white), DALI, Coreline Wallmount Bulkhead, Finish White					5

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:
Jennifer Harding
Project Manager - 07788 712840

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	Comment	Date	LiAS	KAM
0	INITIAL PROPOSAL	31/03/25	HSR	JH
1	LIGHTING PROPOSAL REVISED FOR NEW INFORMATION	22/04/25	HSR	JH

Project Number: 502362248
Scale & Sheet Size: NTS @ A3
Sheet No: DWG 00

Project Name: Co-Op Market Street
Drawing Name: LiAS DESIGN NOTES & LUMINAIRE SCHEDULE

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: I**dentify 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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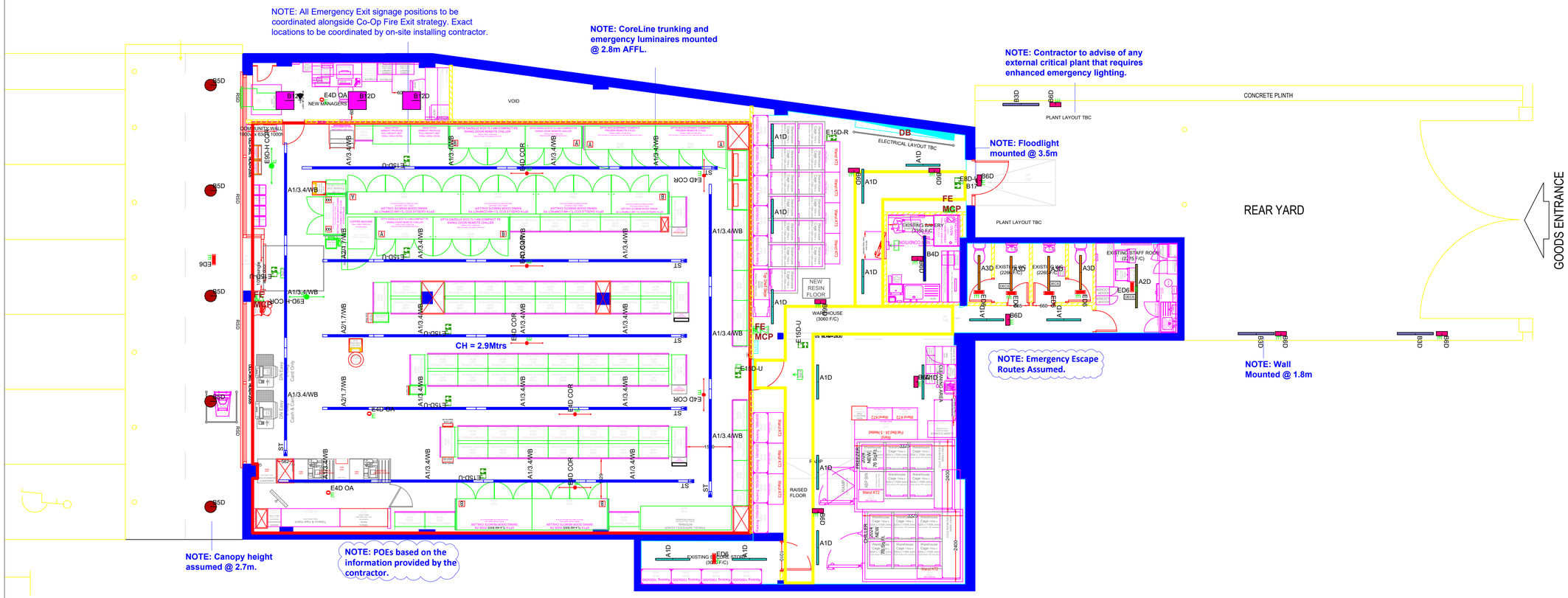
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Sheet No: DWG 00
Project Name: Co-Op Market Street
Drawing Name: LiAS DESIGN INFORMATION



Key:

Product Code	Part Number	Description	Unit	UNIT	UNIT	UNIT	Actual Qty
		SALES FLOOR - LED 3hr/3 hour Lighting					
ALTL 67W8	9007952150V3	**ILUMA MULTIBAY DUPSI 36W NLS** - 1195, 330 LM/W, 3400lm Length, 9000Lm, 4000k (cool white), DALI, Self-Contained Coreline Trunking System, White Gloss Finish White					23
ALTL 37W8	9007952150W	**ILUMA MULTIBAY DUPSI 36W NLS** - 1195, 330 LM/W, 3700mm Length, 4500Lm, 4000k (cool white), DALI, Self-Contained Coreline Trunking System, White Gloss Finish White					3
ST	9009287867S03	**ILUMAX MB 55W 3HP CLR WH** - 3 Lmtr. starter kit for Coreline Trunking, Finish White					7
SM	9009287867S04	**ILUMAX MB 45W WH (5PCS)** - Mounting bracket for suspension wire (2 pcs) for Coreline Trunking, Finish White					25
SMF	9009287867S75	**ILUMAX SMLS 3000** - Steel wire for suspension(3 length) for Coreline Trunking					25
1HR EM	9300018984905	**PHOT REC SPOT LED/3h EM MAS ELD IP20** - 3w 4-recessed standalone emergency spot, interchangeable lens spot area & corridor 1240lm spot area at 2200+ceiling, 500lx, Non-Maintained, DALI feedback 3h emergency, IP20					2
1HR COR	9300018984905	**PHOT REC SPOT LED/3h CO MAS ELD IP20** - 3w 4-recessed standalone emergency spot, interchangeable lens spot area & corridor 1240lm spot area at 2200+ceiling, 500lx, Non-Maintained, DALI feedback 3h emergency, IP20					7
3HR-R-SURF	9300018984907	**PHOT 3HR/4SURF LED/3h CO MAS ELD IP65** - 4w Surface mounted emergency, interchangeable lens spot area & corridor 2050lm spot area at 4000k+corridor, 500lx, Non-Maintained, DALI feedback 3h emergency, IP65					2
3310-SU	9300018985886	**PHOT 3W BLADE 1HOR WL/3W 1HM M/I ELD UP** - 3w, Wall or ceiling mounted emergency exit sign, 20m viewing distance, DALI feedback 3h emergency, IP20, Supplied with ISO7010 Arrow up legend.					9
3310-SUAP	9300018985888	**PHOT 3W BLADE 1HOR / SUSPENSION ADAPTOR** - Accessory wire suspension adaptor kit (max cable length 3ft)					9
3310-R/L	9300018985852	**PHOT 3W BLADE 2 OF 1/2R/RH M/I LITZMAN7** - ISO7010 Astina left and right legend, 30m viewing distance. Legend kit for use with following exit signage: PHOT 3W BLADE 1HOR WL/3W 3HM M/I ELD					1
		BACK OF HOUSE - LED Lighting					
A20	9309281359402	**MAG.LNC 1200/S/8W PSO-L1200** - 34w, 131 LM/W, 1200mm Length, 4320Lm, 4000k (cool white), DALI, Coreline Batten, Surface Mounted LED.					14
A20	9314019341B4	**MAG.LNC 1350/S/8W PSO-L1350** - 29.3w, 133 LM/W, 1350mm Length, 3500Lm, 4000k (cool white), DALI, Coreline Batten, Surface Mounted LED.					1
A30	9314019341B6	**MAG.LNC 1350/S/8W PSO-L1350** - 39w, 133 LM/W, 1350mm Length, 2500Lm, 4000k (cool white), DALI, Coreline Batten, Surface Mounted LED.					4
B30	9309281358853	**NTLCHC G2 1219M/S/8W PSO-L1200** - 30w, 131 LM/W, 1200mm Length, 4005Lm, 4000k (cool white), DALI, Coreline Waterproof, Surface Mounted LED, IP65 Linear Luminaire					3
B60	9309281360028	**SM BRD 6100S/8W PSO-L470 MAS ELD** Surface mounted, Emergency Non-Maintained LED bulkhead, IP65, 910 high lumen output unit in mains operation and 600 lumen output in emergency operation					11
C04	9300018984908	**PHOT 3W DAS 1EDS/S ERT 5K/8 M/I ELD IP65** - 2w, Surface mounted emergency bulkhead, 200lm output, 5300, Maintained or non-maintained selectable, DALI feedback 3h emergency, Includes legend kit, IP65					7
1HR EM	9300018984905	**PHOT REC SPOT LED/3h EM MAS ELD IP20** - 3w 4-recessed standalone emergency spot, interchangeable lens spot area & corridor 1240lm spot area at 2200+ceiling, 500lx, Non-Maintained, DALI feedback 3h emergency, IP20					1
3HR-U	9300018985081	**PHOT 3W WL EXIT 5K/8 3HR M/I ELD NO UP** - 3w Surface mounted Exit Sign Box (used and/or recessed mounting options), 3hr+ viewing distance, 5700, B, EXIT rating, DALI feedback 3h emergency, Supplied with ISO7010 Arrow 'Up' legend.					1
B6100	9314019881781	**BC100B 37L_37L_4S/S/8W PSO 5K4K6K OC** - 33w, 148 LM/W, 4590 Lm, 4000k (cool white), DALI, Recessed LED 600x600, Office Compliant, Coreline Luminaire					3
B57	9314019821483	**DUP164 1332/S/8W PSU 30W 5MR CE** - 29w, 126 LM/W, 3690Lm, 4000k (cool white), Symmetrical Optic, Ledmarine Floodlight Mini					1
SMB	9309287867S68	**ILUMAX SMB 90V (5PCS)** - Surface mounting brackets (5 pcs) for Coreline Trunking, Finish White (For use when mounting trunking directly to a ceiling using a screw					35
		Back Of House					
B40	9309281360032	**NTLCHC G2 1219M/S/8W PSO-L1500** - 40w, 131 LM/W, 1500mm Length, 4845Lm, 4000k (cool white), DALI, Coreline Waterproof, Surface Mounted LED, IP65 Linear Luminaire					1
B50	9309281385S38	**WLUMM 1535/S/8W PSEU WH** - 22w, 103 LM/W, 2265 Lm, 4000k (cool white), DALI, Coreline Wallwash Bulkhead, Finish White					5

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

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.

Points of emphasis Key:
FE - Fire Extinguisher
CP - Call Point
FAP - Fire Alarm Panel
DB - Distribution Board.
FAS - First Aid Sign

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.**
- **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.

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

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0	INITIAL PROPOSAL	31/03/25	HSR	JH
1	LIGHTING PROPOSAL REVISED FOR NEW INFORMATION	22/04/25	HSR	JH

Project Number: 502362248
Scale & Sheet Size: 1:75 @ A1
Sheet No: DWG 01

Project Name: Co-Op Market Street
Drawing Name: PROPOSED LIGHTING LAYOUT