

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.

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

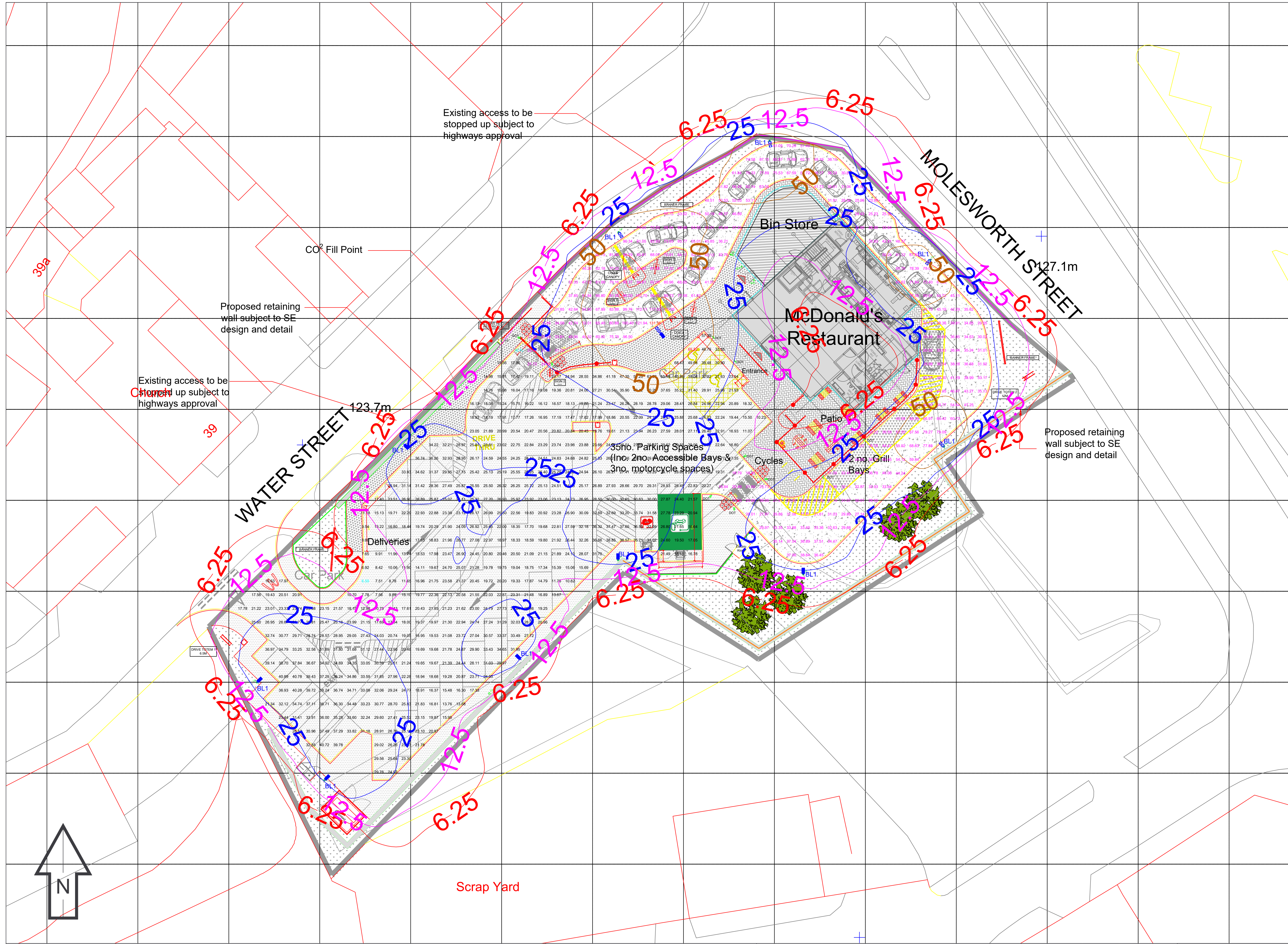
■	Luma Gen2 Medium BGP704 80 LED DX10 15.5KLM WW 3000K lamp(s): LED-HB 5.2S 730 candela file 'Luma Gen2 Medium_BGP704_DX10_15500_80LED_5.2S_CLO_L90_730.ies' 1 lamp(s) per luminaire, 15500 initial lumens per lamp Maintenance Factor = 0.760, watts per luminaire = 84 Outreach (from mounting axis to photometric center)= 400 mm mounting height= 6 m number locations= 1, number luminaires= 1
■ BL1	Luma Gen2 Medium BGP704 80 LED DX10 BL1 15.5KLM WW 3000K lamp(s): LED-HB 5.2S 730 candela file 'Luma Gen2 Medium_BGP704_DX10 BL1_15500_80LED_5.2S_CLO_L90_730.ies' 1 lamp(s) per luminaire, 15500 initial lumens per lamp Maintenance Factor = 0.760, watts per luminaire = 84 Outreach (from mounting axis to photometric center)= 400 mm mounting height= 6 m number locations= 6, number luminaires= 6
✉	Luma Gen2 Medium BGP704 80 LED DM10 18.5KLM WW 3000K lamp(s): LED-HB 5.2S 730 candela file 'Luma Gen2 Medium_BGP704_DM10_18500_80LED_5.2S_CLO_L90_730.ies' 1 lamp(s) per luminaire, 18500 initial lumens per lamp Maintenance Factor = 0.760, watts per luminaire = 102 Outreach (from mounting axis to photometric center)= 400 mm mounting height= 6 m number locations= 1, number luminaires= 1
✉ BL1	Luma Gen2 Medium BGP704 80 LED DM10 BL1 18.5KLM WW 3000K lamp(s): LED-HB 5.2S 730 candela file 'Luma Gen2 Medium_BGP704_DM10 BL1_18500_80LED_5.2S_CLO_L90_730.ies' 1 lamp(s) per luminaire, 18500 initial lumens per lamp Maintenance Factor = 0.760, watts per luminaire = 102 Outreach (from mounting axis to photometric center)= 400 mm mounting height= 6 m number locations= 4, number luminaires= 4

Car Park	
565 points at z=0, sp 1.5m by 1.5m	
HORIZONTAL LUX	
Average	25.09
Maximum	69.32
Minimum	6.59
Min/Avg(Uo)	0.263
Min/Max	0.095
Coef Var	0.321
UnifGrad	1.79

Drive Thru	
269 points at z=0, sp 1.5m by 1.5m	
HORIZONTAL LUX	
Average	50.46
Maximum	131.36
Minimum	18.40
Min/Avg(Uo)	0.365
Min/Max	0.140
Coef Var	0.447
UnifGrad	1.41



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	6047128	INITIAL PROPOSAL	06.02.25	CP	LC	501734912	MCDONALDS MOLESWORTH STREET, ROCHDALE
								Scale & Sheet Size	Drawing Name
								NTS @ A3	LiAS DESIGN NOTES & LUMINAIRE SCHEDULE
								Sheet No	
								DWG 00	



- Key:**
- Luma Gen2 Medium BGP704 80 LED DX10 15.5KLM WW 3000K
lamp(s): LED-HB 5.2S 730
candela file: Luma Gen2 Medium, BGP704_DX10_BL1_15500_80LED_5.2S_CLO_L90_730.ies
1 lamp(s) per luminaire, 15500 initial lumens per lamp
Maintenance Factor = 0.760, watts per luminaire = 84
Outreach (from mounting axis to photometric center)= 400 mm
mounting height= 6 m
number locations= 1, number luminaires= 1
 - Luma Gen2 Medium BGP704 80 LED DX10 BL1 15.5KLM WW 3000K
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Outreach (from mounting axis to photometric center)= 400 mm
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 - Luma Gen2 Medium BGP704 80 LED DM10 BL1 18.5KLM WW 3000K
lamp(s): LED-HB 5.2S 730
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1 lamp(s) per luminaire, 18500 initial lumens per lamp
Maintenance Factor = 0.760, watts per luminaire = 102
Outreach (from mounting axis to photometric center)= 400 mm
mounting height= 6 m
number locations= 1, number luminaires= 1
 - Luma Gen2 Medium BGP704 80 LED DM10 BL1 18.5KLM WW 3000K
lamp(s): LED-HB 5.2S 730
candela file: Luma Gen2 Medium, BGP704_DM10_BL1_18500_80LED_5.2S_CLO_L90_730.ies
1 lamp(s) per luminaire, 18500 initial lumens per lamp
Maintenance Factor = 0.760, watts per luminaire = 102
Outreach (from mounting axis to photometric center)= 400 mm
mounting height= 6 m
number locations= 4, number luminaires= 4

Car Park
505 points at z=0, sp 1.5m by 1.5m

HORIZONTAL LUX	
Average	25.08
Maximum	69.32
Minimum	6.59
Min(Avg)Lo	0.263
MinMax	0.095
Coef Var	0.521
UniGrad	1.79

Drive Thru
259 points at z=0, sp 1.5m by 1.5m

HORIZONTAL LUX	
Average	30.48
Maximum	131.36
Minimum	18.40
Min(Avg)Lo	0.355
MinMax	0.140
Coef Var	0.447
UniGrad	1.41

- 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

PROPOSAL
(NOT FOR CONSTRUCTION)

Rev	DSR no.	Comment	Date	LIAS	KAM	Project Number	Project Name
0	6047128	INITIAL PROPOSAL	06.02.25	CP	LC	501734912	MCDONALDS MOLESWORTH STREET, ROCHDALE
						Scale & Sheet Size	Drawing Name
						1:200 @ A1	PROPOSED LIGHTING LAYOUT
						Sheet No	
						DWG 01	