

LiAS Design Notes

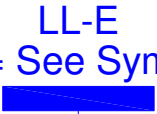
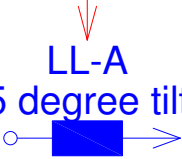
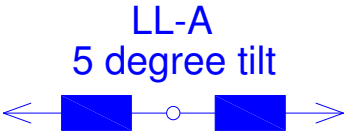
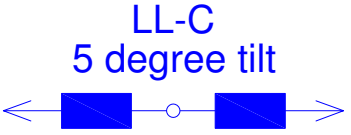
This preliminary design is produced by the Lighting Application Specialist (LiAS) team of Signify UK based on information supplied by the Customer for the purpose of identifying suitable products and costing the proposal. This design cannot be used for Construction, as this design does not purport to 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 Principal Designer (which is not Signify UK) during the detailed design phase.

Project Specific Design Comments:

- The lighting calculations have been produced using Lidl Specification lighting classes.
- Where column heights have not been provided/specified, these have been assumed to be 6m. Where wall/ceiling mounting heights have not been provided/specified, these have been assumed to be 3.25m/4.1m.
- It has been assumed that luminaires on columns will be mounted post-top or on 0.5m outreach brackets, canopy luminaires will be ceiling mounted and LL-E/LL-E EM luminaires will be wall mounted.
- LL-E EM luminaires should be a maximum of 7m from the centre of one luminaire to the centre of the next.
- Signify has not undertaken any emergency lighting calculations. Luminaires marked as emergency fittings are for indicative purposes only. It is the responsibility of the Principal Designer to ensure emergency lighting calculations are performed and that all emergency evacuation routes are lit to a suitable standard.
- Preliminary Design proposals produced by the Signify LiAS Team are not to be used for installation purposes. It is the responsibility of the Principal Designer and/or Principal 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 Principal 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 Principal 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 Principal 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 Principal 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

 LL-Canopy	LL-Canopy Qty - 15 Mounting Height - 4.1m Tilt - 0 Degrees	Whole Carpark HORIZONTAL LUX Average 16 Maximum 116 Minimum 4 Min/Avg(Uo) 0.28 Min/Max 0.04
 LL-Canopy EM	LL-Canopy EM Qty - 1 Mounting Height - 4.1m Tilt - 0 Degrees	Canopy HORIZONTAL LUX Average 95 Maximum 122 Minimum 41 Min/Avg(Uo) 0.43 Min/Max 0.34
 LL-E tilt = See Symbol	LL-E Qty - 10 Mounting Height - 3.25m Tilt - See Symbol	Rear Walkway HORIZONTAL LUX Average 88 Maximum 122 Minimum 42 Min/Avg(Uo) 0.48 Min/Max 0.35
 LL-E EM tilt = See Symbol	LL-E EM Qty - 10 Mounting Height - 3.25m Tilt - See Symbol	LiDL Carpark HORIZONTAL LUX Average 17 Maximum 109 Minimum 6 Min/Avg(Uo) 0.34 Min/Max 0.05
 LL-A 5 degree tilt	Single LL-A Qty - 13 Mounting Height - 6m Tilt - 5 Degrees	
 LL-A 5 degree tilt	Twin LL-A Columns Qty - 6 Lanterns Qty - 12 Mounting Height - 6m Tilt - 5 Degrees	
 LL-C 5 degree tilt	Twin LL-C Columns Qty - 4 Lanterns Qty - 8 Mounting Height - 6m Tilt - 5 Degrees	

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.

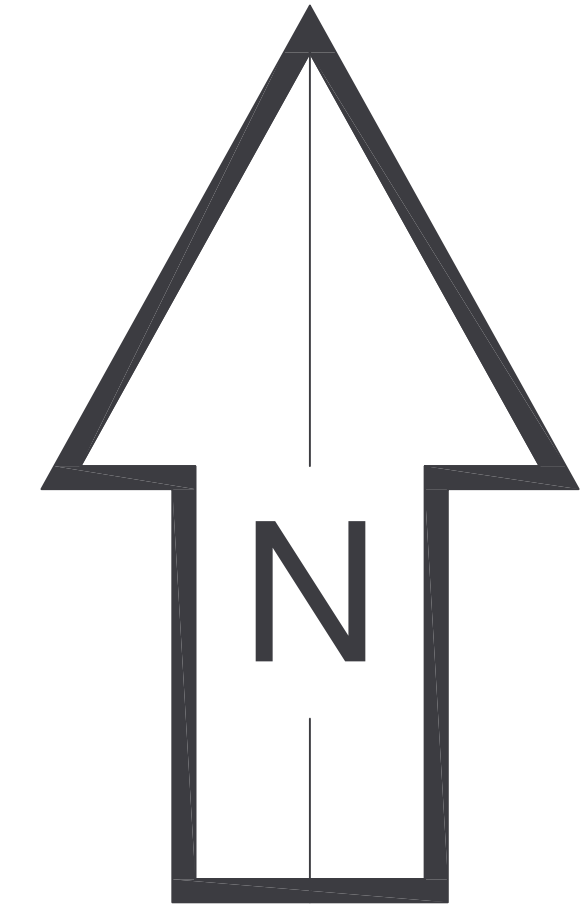
The supply and installation of this lighting scheme are subject to a contract being agreed between Customer and Signify.

PROPOSAL
(NOT FOR CONSTRUCTION)

Rev	DSR no.	Comment	Date	LIAS	KAM
6	6465158	New site layout.	23/09/25	MD	RF
7	6491637	LL-E EM removed from rear walkway.	03/10/25	MD	RF
8	6867093	Column removal/relocations	08/04/26	CP	RF
9	6867093	Amended proposal based on comments.	13/05/26	HSR	RF

Project Number	Project Name
0400554022	LiDL Birstall
Scale & Sheet Size	Drawing Name
NTS @ A3	LiAS DESIGN NOTES & LUMINAIRE SCHEDULE
Sheet No	
DWG 00	





Notes:

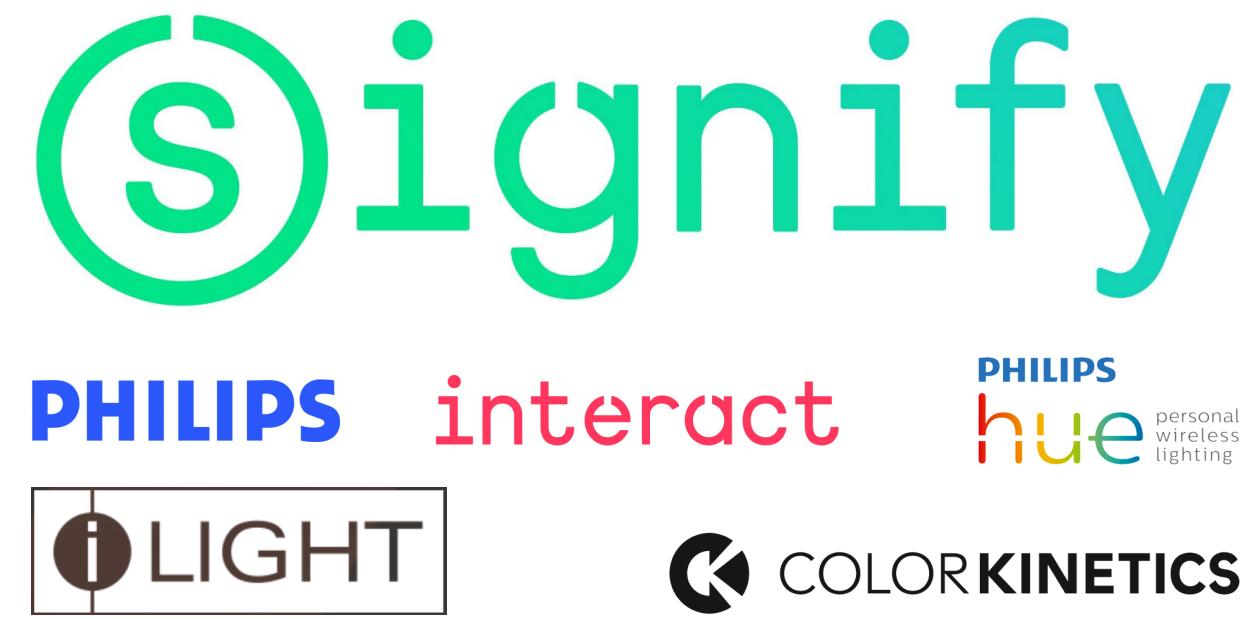
- 1) Unless agreed otherwise, the lighting proposal produced by the Lighting Application Specialist (LIAS) team of Philips Lighting UK&I is not intended for construction purposes, as it does not take into account the elimination of health and safety risks at this stage. For further details please refer to sheet number **DWG 00**
- 2) Do not scale for this drawing

PROPOSAL

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Project Number
0400554022
Scale & Sheet Size
1:300 @ A0
Sheet No
DWG 01



Project Name

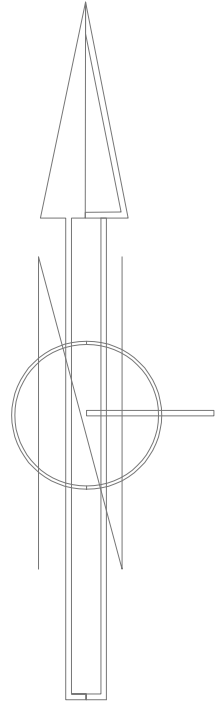
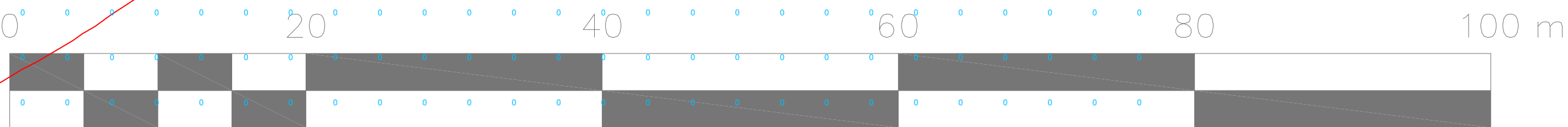
LiDL Birstall

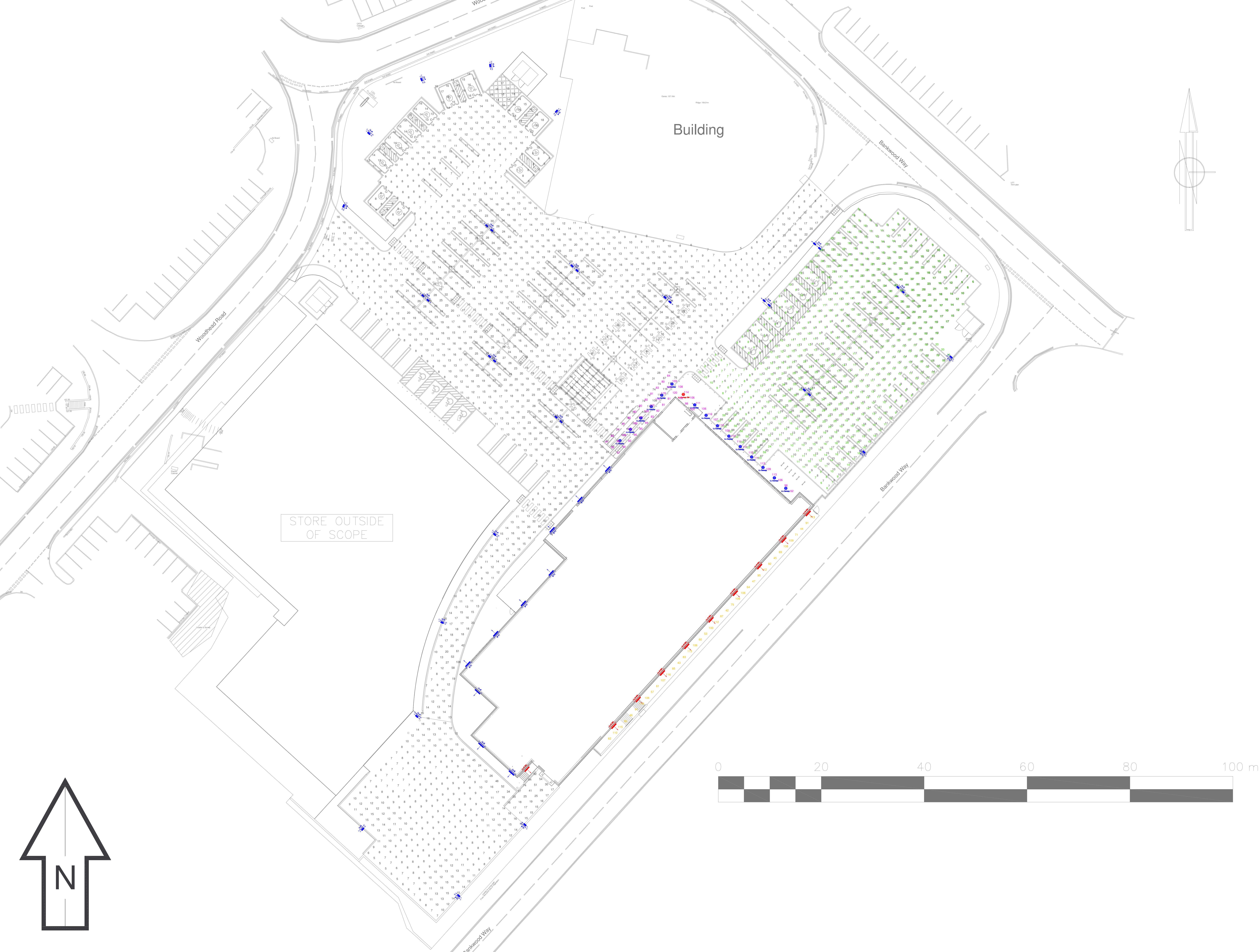
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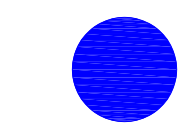
Spill Light @ 0m

Whole Carpark	Canopy
HORIZONTAL LUX	HORIZONTAL LUX
Average 16	Average 95
Maximum 116	Maximum 122
Minimum 4	Minimum 41
Min/Avg(Uo) 0.28	Min/Avg(Uo) 0.43
Min/Max 0.04	Min/Max 0.34
Rear Walkway	LiDL Carpark
HORIZONTAL LUX	HORIZONTAL LUX
Average 88	Average 17
Maximum 122	Maximum 109
Minimum 42	Minimum 6
Min/Avg(Uo) 0.48	Min/Avg(Uo) 0.34
Min/Max 0.35	Min/Max 0.05

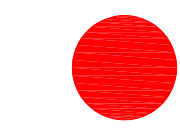
● LL-Canopy	LL-Canopy Qty - 15 Mounting Height - 4.1m Tilt - 0 Degrees
● LL-Canopy EM	LL-Canopy EM Qty - 1 Mounting Height - 4.1m Tilt - 0 Degrees
LL-E tilt = See Symbol ↓	LL-E Qty - 10 Mounting Height - 3.25m Tilt - See Symbol
LL-E EM tilt = See Symbol ↓	LL-E EM Qty - 10 Mounting Height - 3.25m Tilt - See Symbol
LL-A 5 degree tilt	Single LL-A Qty - 13 Mounting Height - 6m Tilt - 5 Degrees
LL-A 5 degree tilt	Twin LL-A Columns Qty - 6 Lanterns Qty - 12 Mounting Height - 6m Tilt - 5 Degrees
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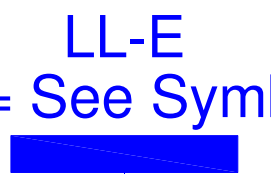


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LL-Canopy

LL-Canopy
Qty - 15
Mounting Height - 4.1m
Tilt - 0 Degrees
- 

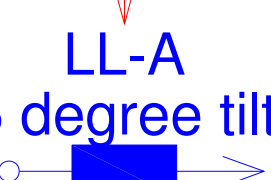
LL-Canopy EM

LL-Canopy EM
Qty - 1
Mounting Height - 4.1m
Tilt - 0 Degrees
- 

LL-E
tilt = See Symbol

LL-E
Qty - 10
Mounting Height - 3.25m
Tilt - See Symbol
- 

LL-E EM
tilt = See Symbol

LL-E EM
Qty - 10
Mounting Height - 3.25m
Tilt - See Symbol
- 

LL-A
5 degree tilt

Single LL-A
Qty - 13
Mounting Height - 6m
Tilt - 5 Degrees
- 

LL-A
5 degree tilt

Twin LL-A
Columns Qty - 6
Lanterns Qty - 12
Mounting Height - 6m
Tilt - 5 Degrees
- 

LL-C
5 degree tilt

Twin LL-C
Columns Qty - 4
Lanterns Qty - 8
Mounting Height - 6m
Tilt - 5 Degrees

Whole Carpark		Canopy	
HORIZONTAL LUX		HORIZONTAL LUX	
Average	16	Average	95
Maximum	116	Maximum	122
Minimum	4	Minimum	41
Min/Avg(Uo)	0.28	Min/Avg(Uo)	0.43
Min/Max	0.04	Min/Max	0.34
Rear Walkway		LiDL Carpark	
HORIZONTAL LUX		HORIZONTAL LUX	
Average	88	Average	17
Maximum	122	Maximum	109
Minimum	42	Minimum	6
Min/Avg(Uo)	0.48	Min/Avg(Uo)	0.34
Min/Max	0.35	Min/Max	0.05



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Project Number
0400554022
Scale & Sheet Size
1:250 @ A0
Sheet No
DWG 02

Project Name
LiDL Birstall
Drawing Name
Calculation Results