

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:

- Where 'Lighting Classes' have not been provided/specified, the calculations have been produced to meet "Medium use car parking" as per BS5489:2020 standards. This is a lux requirement of 10 lux Eave with min 25% UO.
- Where column heights have not been provided/specified, these have been assumed to be 5m.
- It has been assumed that luminaires will be mounted post-top.
- Luminaires close to the "Buffer" zone are installed with a rear back light shield
- OSB sensors can be utilised to reduce the output or turn off the luminaires during times when the site is not being utilised.
- 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

•	LumiStreet Gen2 Micro BGP291 20 LED DX10 5.8KLM WW 3000K lamp(s): LED-HB 5.2S 730 candela file 'LumiStreet Gen2 Micro_BGP291_DX10_5800_20LED_5.2S_CLO_L90_730.ies' 1 lamp(s) per luminaire, 5800 initial lumens per lamp Maintenance Factor = 0.760, watts per luminaire = 35 Outreach (from mounting axis to photometric center)= 400 mm mounting height= 5 m number locations= 2, number luminaires= 2
•	LumiStreet Gen2 Micro BGP291 20 LED DX10 BL1 5.8KLM WW 3000K lamp(s): LED-HB 5.2S 730 candela file 'LumiStreet Gen2 Micro_BGP291_DX10_BL1_5800_20LED_5.2S_CLO_L90_730.ies' 1 lamp(s) per luminaire, 5800 initial lumens per lamp Maintenance Factor = 0.760, watts per luminaire = 35 Outreach (from mounting axis to photometric center)= 400 mm mounting height= 5 m number locations= 2, number luminaires= 2

Car Park	
367 points at z=0, sp 1.5m by 1.5m	
HORIZONTAL LUX	
Average	10.87
Maximum	26.44
Minimum	2.80
Min/Avg(Uo)	0.258
Min/Max	0.106
Coef Var	0.453
UnifGrad	2.85

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Rev	DSR no.	Comment	Date	LiAS	KAM	Project Number	Project Name
0	6272043	INITIAL PROPOSAL	11.06.25	CP	AA	502389850	NEWPORT, UNIT 6 CAR PARK
1	6464910	NEW LAYOUT	16.09.25	CP	AA	Scale & Sheet Size	Drawing Name
						NTS @ A3	LiAS DESIGN NOTES & LUMINAIRE SCHEDULE
						Sheet No	
						DWG 00	



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.

MEADOWLANDS DRIVE

PRIVATE ROAD

1200 WIDE TARMAC
FOOTPATH.

1800H x 1200W
GALVANISED
PALISADE GATE.

DROP KERB

S/STN

EXISTING 500 HIGH
BUNDING TO REMAIN
AND BE PLANTED WITH
SHRUBS.

1800 HIGH GALVANISED
PALISADE FENCE TO
ROAD PERIMETER.

1800 HIGH GALVANISED
PALISADE GATES.

EXISTING BUNDING
TO REMAIN.

EXISTING BUNDING
TO REMAIN.

CAR SPACES TO BE LAID WITH
GRASSPARK PERMEABLE PAVING
GRID.

CAR PARKING 26 CARS

CAR PARK CIRCULATION
TO BE LAID WITH TARMAC
FINISH.

ALL SOFT LANDSCAPE AREAS
TO BE LAID WITH GRASS.

WOODLAND

signify

PHILIPS interact PHILIPS hue personal wireless lighting

LIGHT COLOR KINETICS

Project Name
NEWPORT, UNIT 6 CAR
PARK

Drawing Name
PROPOSED LIGHTING
LAYOUT

Project Number
502389850

Scale & Sheet Size
1:125 @ A1

Sheet No
DWG 01

Rev	DSR no.	Comment	Date	LIAS	KAM
0	6272043	INITIAL PROPOSAL	11.06.25	CP	AA
1	6464910	NEW LAYOUT	16.09.25	CP	AA

PROPOSAL
(NOT FOR CONSTRUCTION)

- Notes:
- 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**
 - Do not scale for this drawing