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

See Opposite

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.

Velo Track Designed to 15-22 lux, 0.4 Uo (as requested)

Car Park Designed to 10 lux, 0.25 Uo Medium Use Car Park.

MF 0.83 - Performance Results

MF 1.0 - Spill Lighting (Worst case when new)

Column height 5m (as requested) All luminaires are Post Top Mounted on 5m columns at 0 degree tilt.

Luminaires used are all LumiStreet GEN 2. Extra Warm White 2200k. 2200k used to reduce influence to small Mammels reducing environmental impact Colour Rendition 70 Ra

83 No fittings used in total for Both Phases Phase 1

52 No DX10 fittings used for Phase 1 Velo Track 16 No DW50 fittings used for Phase 1 Car Park

68 No fittings used in Phase 1

Phase 2 15 No DX10 fittings used for Phase 2 Velo Track

Velo Track Luminaires are LumiStreet GEN 2 BGP292 DX10 BL2 1xLED-HB 9 Klm 5.2S 722 BL2 full cut off internal louvres fitted to all Velo Track fittings for full light cut off behind luminaire

Car Park Luminaires are LumiStreet GEN 2 BGP292 DW50 BL1 1xLED-HB 6.4 Klm 5.2S 722 BL Semi cut off internal louvres fitted to all Car Park fittings for semi light cut off behind luminaire

Signify Lighting Contacts

Andy Poplett, Key Account Manager - 07810 832266 - andrew.poplett@signify.com

Rev DSR no. Comment Date LIAS KAM Project Number 0 D-349772 8m scheme to 30 lux ave, 0.4 Uo 02/04/20 SJ ΔP 400448639 D-363152 6m LumiStreet G2 BL2 LO scheme to 30 lux ave, 0.4 U 20/07/20 SJ AP Change to Warm White 3000k 27/07/20 SJ 25/09/20 SJ Scale & Sheet Size 5m LumiStreet G2 BL2 scheme to 15-22 lux ave, 0.4 Uo WW 2200k -370992 NTS @ A3 Sheet No **DWG 00**

Luminaire Schedule This shceme is to be carried out in two Phases, with the Majority of the track & Car Park in Phase 1 and the extension loop to the right in Phase 2

This scheme shows results for Phase 1 & 2

If no motor access is available for future maintenance, the Raise & Lower columns are recommended.

Spill Isolux values shown are 0.1,0.5,1.0,1.5,2.0,2.5 & 3.0 lux values



Calc	Grid	Unit	Ave	Min	Max	Uo	Min/Max
1	Velo Track Phase 1	lux	18.6	8.2	31.6	0.44	0.26
2	Main Car Park Ph 1	lux	10.1	3.7	23.2	0.37	0.16

5m columns with 6.4 Klm Mini LumiStreet BGP292 G2 DW50 70 Ra 2200k LED fitting - 56w

5m columns with 9 KIm Mini LumiStreet G2 BGP292 DX10 70 Ra 2200k LED fitting - 79w



Abergavenny Velo Park,

LIAS DESIGN NOTES &

LUMINAIRE SCHEDULE

Wales - Phase 1

Project Name

Drawing Name

Lighting Proposal Terms and Conditions of Use

These terms apply to the use of this preliminary proposal produced by Signify UK. This **"Proposal**" is understoad 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 euidance on whan dcannot be relied upon for purposes of installation or Health and Safetv.

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





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		0.00		MF 0.83 - Performance Results ME 1.0 - Spill Lighting (Worst case when
		0.00		new)
				Column height 5m (as requested) All luminaires are Post Top Mounted on 5m
				columns at 0 degree tilt.
				Extra Warm White 2200k. 2200k used
0				to reduce influence to small Mammels
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nting propo	sal produced by the Lighting Application Specialist (LIAS) team of Signify UK&L is not intended for	20/07/20 SJ AP	400448639	Abergavenny Velo Park,

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

2) Do not scale for this drawing

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DSR no.	Comment	Date	LiAS	KAM	Project Number	Project Name
D-349772	8m scheme to 30 lux ave, 0.4 Uo	02/04/20	SJ	AP	400440000	
D-363152	6m LumiStreet G2 BL2 LO scheme to 30 lux ave, 0.4 Uo	20/07/20	SJ	AP	400448639	Abergavenny velo Park
D-363984	Change to Warm White 3000k	27/07/20	SJ	AP	Scale & Sheet Size	Wales - Phase 1
D-370992	5m LumiStreet G2 BL2 scheme to 15-22 lux ave, 0.4 Uo WW 2200k	25/09/20	SJ	AP	Scale & Sheet Size	
					1:1000 @	Drawing Name
					Sheet No AI	Sm LumiStreet GZ LED
						Spill Lighting Results
					DWG 02	opin Lighting Results