

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 (for projects in the UK), or the PSDP/PSCS (for projects in the Republic of Ireland) ,of which neither role is Signify Commercial UK Ltd, or Signify Ireland Ltd during the detailed design phase.

Project Specific Design Comments:

- Where 'Lighting Classes' have not been provided/specified, the calculations have been produced using EN12193 Sports Lighting Guide and/or SLL LG4 Sports Lighting Guide.
- Where column heights have not been provided/specified, these have been assumed to be a suitable height as to keep Upward Light spill below the 90 deg line.
- It has been assumed that luminaires will be mounted on purpose made floodlight brackets and spaced sufficiently apart to prevent light being obstructed by adjacent fittings. Recommended spacing is 1.2m apart on columns and Headframes and 1.5m on Gantries.
- 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 (for projects in the UK) or the PSDP and/or PSCS (for projects in the Republic of Ireland) 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 (for projects in the UK) or the PSDP (for projects in the Republic of Ireland).
- 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 (for projects in the UK) or the PSDP (for projects in the Republic of Ireland).
- 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 (for projects in the UK) or the PSDP (for projects in the Republic of Ireland) 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 Designer (for projects in the UK) or the PSDP (for projects in the Republic of Ireland) 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.
- Calculated results are based upon accurate positioning of fittings and correct aiming, as per the calculation report. It is responsibility of customer to check information used and/or assumed in the calculation report is correct before ordering. Signify cannot be held responsible for result issues, if fittings not positioned or aimed correctly on site.

Luminaire Schedule

MF = 0.95

Scheme based on the Philips OptiVisionLED Gen3.5 Asymmetric Floodlight.

Pitch:-
92m x 62m Rugby Pitch + 5m Try Zones
8 x15m Columns
100 Lux Average / 0.60Uo
8 x BVP528 LED2590-4S 4000k A55-NB + LO

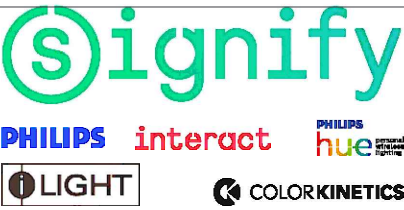
Calc	Grid	Unit	Ave	Min	Max	Uo	Min/Max
1	Main Rugby 5x5m	lux	151	97	242	0.65	0.4
2	Main Rugby 13 x 7 points	lux	133	57	230	0.43	0.25
3	Main Rugby 10x10 Glare				47		
4	Ev Houses North	lux			3.24		
5	Ev Houses South	lux			1.98		
6	Ev Houses East	lux			0.81		
7	Ev Houses West	lux			0.78		

Legend → BVP528 OUT T35 1xLED2590-4S/740/E3/D4I A55-NB LO



Signify Lighting Contacts

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Rev	DSR no.	Comment	Date	LiAS	KAM	Project Number	Project Name
0	5817212	Performance & Spill Results	27/11/24	SJ	AP	501689100	Aberavon Harlequins RFC
						Scale & Sheet Size	Harlequin Rd, Port Talbot
						NTS @ A3	Drawing Name
						Sheet No	LiAS DESIGN NOTES & LUMINAIRE SCHEDULE
						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, **Safety, Health and Welfare at Work (Construction) Regulations 2013**.

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)



MF = 0.95

Scheme based on the Philips OptiVisionLED Gen3.5 Asymmetric Floodlight.

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8 x15m Columns
100 Lux Average / 0.60Uo
8 x BVP528 LED2590-4S 4000k A55-NB + LO

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Legend
→ BVP528 DUT T35 1xLED2590-4S/740/E3/D4I A55-NB LO



- 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	5817212	Performance & Spill Results	27/11/24	SJ	AP	501689100	Aberavon Harlequins RFC
						Scale & Sheet Size	Harlequin Rd, Port Talbot
						1:250 @ A1	Drawing Name
						Sheet No	8x15m 8 No BVP528+LO
						PR-DWG 01	Performance Results



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Scheme based on the Philips OptiVisionLED Gen3.5
Asymmetric Floodlight.

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						Scale & Sheet Size	Harlequin Rd, Port Talbot
						1:250 @ A1	Drawing Name
						Sheet No	8x15m 8 No BVP528+LO
						SP-DWG 01	Spill Results