LiAS Design Notes

The lighting proposal produced by the Lighting Application Specialist (LiAS) team of Philips Lighting is based on the limited information supplied and provides an indicative design only, which does not take into account the elimination of health and safety risks at this stage.

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 Philips Lighting UK) during the detailed design phase.

Project Specific Assumptions

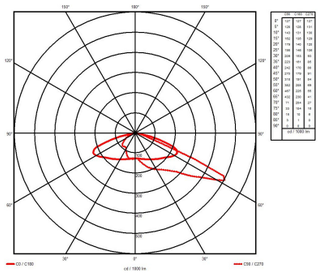
- Lighting levels as Per LiDL specification.
- Column heights and bracket arms as indicated within the luminaire schedule.
- The Luminaire Maintenance Factors have been based on a 4 year cleaning intervals within an E3/E4 Environmental Zone and it is assumed that lamp/luminaire failures will be replaced on a 'spot replacement'.
- The design calculations produced by Philips Lighting UK do not account for the effect obstructions, such as trees, will cause.

Generic Assumptions (unless specifically informed differently)

- Philips Lighting UK Proposals 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.
- Philips Lighting UK 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.
- Philips Lighting UK has not visited site. Therefore all column/luminaire locations are indicative and are subject to an onsite verification arranged/performed by the Principle Designer.
- Philips Lighting UK has not produced any Private Cable Network electrical calculations or reviewed the DNO network to confirm power supplies to the proposed lighting.
- Philips Lighting UK 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.
- Philips Lighting UK 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 (eg raise & lower, ground condition, foundation type, saline environment, etc).
- Philips Lighting luminaires will be supplied in their standard colour.

Proposed Luminaires

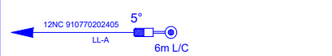
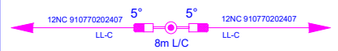
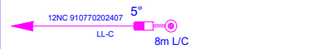
LumiStreet Lantern



Pacific Wall Light

LuxSpace Canopy Downlighter

Luminaire Schedule

LUMINAIRE LEGEND		Qtys Lanterns
	**1 X Philips LumiStreet LED Luminaire and 1 x 6 m Column with 0.5m bracket.** Luminaire BGP213 LED49-4S/740 I DX10 7024 D9 48/60. (Lantern Ref: LL-A) 12NC: 910770202405	2
	**2 X Philips LumiStreet LED Luminaires and 1 x 8 m Column with 0.5m bracket.** Luminaire BGP213 LED75-4S/740 I DX10 7024 D9 48/60. (Lantern Ref: LL-C) 12NC: 910770202407	2
	**1 X Philips LumiStreet LED Luminaire and 1 x 8 m Column with 0.5m bracket.** Luminaire BGP213 LED75-4S/740 I DX10 7024 D9 48/60. (Lantern Ref: LL-C) 12NC: 910770202407	11
	1 X Philips Pacific 1300mm LED Luminaire Luminaire WT460C LED23S/840 PSU WB TC L1300. (Luminaire Ref: LL-E) with LiDL adjustable bracket. Luminaire mounted at 3.1m. 12NC: 910925335658	8
	1 X Philips Pacific 1300mm LED Luminaire Luminaire WT460C EL3-LED23S/840 PSU WB TC L1300. (Luminaire Ref: LL-E EM-EL3) with LiDL adjustable bracket Luminaire mounted at 3.1m. 12NC: 919913997331	19
	1xPhilips LuxSpace Recessed Downlighter DN570B LED20S/840 PSE-E C PG GR IP54 front IP40 back. (Luminaire Ref: LL-CANOPY) 12NC: 822276497916	15
	1xPhilips LuxSpace Recessed Downlighter DN570B EL3-LED20S/840 PSE-E C PG GR IP54 front IP40 back. (Luminaire Ref: LL-CANOPY EM-EL3)	1
	Columns with backplates installed	11

All Lanterns installed at tilt angles indicated adjacent to the luminaire positions shown on the drawing.

Lighting levels based on spill light contribution from the stores sales area.

Perimeter lighting to be considered by client including any emergency lighting requirements. Footpaths/Stairs/Ramps not considered in these proposals.

Where required Lighting columns should be protected by barriers from vehicle impact damages.

These lighting values do not take into account any obstructions from trees, vehicles, objects etc.

Lighting Levels Summary

Carpark Lighting Levels	Overall Uniformity	Upward Light Ratio	Maintenance Factor
12.3 Lux	34%	1%	0.77

Philips Lighting Contacts

Jake Watson, Key Account Manager - 07789 398626

PHILIPS
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Registered in England No.291612
Telephone 0845 6011283

Lighting Proposal Terms and Conditions of Use

These terms and conditions apply to any proposal(s) supplied by Philips Lighting UK Limited ("**Philips**") to which this document has been attached or accompanies, whether or not this is specifically acknowledged or referenced within the proposal.

For the purposes of these terms and conditions a proposal ("**proposal**") is understood to mean a CAD drawing, lighting calculation, written document, verbal conversation, or in fact any medium used to demonstrate or communicate a proposed lighting arrangement using Philips lighting products. A customer ("**customer**") is the person or organisation for whom the proposal is intended, whilst a design ("**design**") or principal designer/designer ("**principal designer**") should have the meaning set out in the Construction, Design and Management Regulations 2015 as amended. Safety, Health & Welfare at Work Act 2005 The Construction (Design & Management) Regulations (Northern Ireland) 2015 as amended. This legislation is referred to in this document, collectively, as the "**CDM Regulations**".

PROPOSAL
(NOT FOR CONSTRUCTION)

Rev	DSR no.	Comment	Date	LiAS	KAM
0	D-209885	INITIAL PROPOSAL	23/08/17	HSR / AGG	DM
1	D-212210	HTC Comments	22/09/17	HSR / AGG	DM
2	D-228318	New Drawing	30/01/18	HSR / AGG	JW

Project Number: O-2092338
Scale & Sheet Size: NTS @ A3
Sheet No: DWG 00

Project Name: LiDL Mapplewell Carpark
Drawing Name: LiAS DESIGN NOTES & LUMINAIRE SCHEDULE

Key:

LUMINAIRE LEGEND		Qtys Lanterns
5° 6m L/C	**1 X Philips LumiStreet LED Luminaire and 1 x 6 m Column with 6 6m bracket.** Luminaire BGP313 LED48-4S/740 I DX10 7024 O9 48/60. (Lantern Ref: LL-A) *(ONC: 910770202405*	2
5° 5° 8m L/C	**2 X Philips LumiStreet LED Luminaires and 1 x 8 m Column with 8.6m bracket.** Luminaire BGP213 LED75-4S/740 I DX10 7024 O9 48/60. (Lantern Ref: LL-C) *(ONC: 910770202407*	2
5° 8m L/C	**1 X Philips LumiStreet LED Luminaire and 1 x 8 m Column with 8.6m bracket.** Luminaire BGP313 LED75-4S/740 I DX10 7024 O9 48/60. (Lantern Ref: LL-C) *(ONC: 910770202407*	11
LL-E	**1 X Philips Pacific 1300mm LED Luminaire** Luminaire WT460C LED23S/840 PSU WB TC L1300. (Luminaire Ref: LL-E) with LIDL adjustable bracket. Luminaire mounted at 3.1m. *(ONC: 910825339658*	8
LL-E EM-EL3	**1 X Philips Pacific 1300mm LED Luminaire** Luminaire WT460C LED23S/840 PSU WB TC L1300. (Luminaire Ref: LL-E EM-EL3) with LIDL adjustable bracket Luminaire mounted at 3.1m. *(ONC: 9199139973*	19
LL-CANOPY	**1xPhilips LucSpace Recessed Downlighter** DN570B LED35S/840 PSU-E C PD QR IP54 front IP40 back. (Luminaire Ref: LL-CANOPY) *(ONC: 8220764979*	15
LL-CANOPY EM-EL3	**1xPhilips LucSpace Recessed Downlighter** DN570B ELELED35S/840 PSE-E C PD QR IP54 front IP40 back (Luminaire Ref: LL-CANOPY EM-EL3)	1
	Columns with backplates installed	11

All Lanterns installed at tilt angles indicated adjacent to the luminaire positions shown on the drawing.

Lighting levels based on spill light contribution from the stores sales area.

Perimeter lighting to be considered by client including any emergency lighting requirements. Footpaths/Stairs/Ramps not considered in these proposals.

Where required Lighting columns should be protected by barriers from vehicle impact damages.

These lighting values do not take into account any obstructions from trees, vehicles, objects etc.

EMERGENCY LUMINAIRES POSITIONED NEAR ASSUMED FINAL EMERGENCY EXIT DOORS, CONTRACTOR TO ADVISE IF THESE REQUIRE FURTHER REVISION.

Illuminance Values for Horizontal Spill Light at 0m. Maintenance Factor of 1.

NOTE - Wall lighting at 1.8m and tilted by 10°

NOTE - Perimeter lighting tilted by 5°

NOTE - Wall lighting at 1.8m and tilted by 5°

NOTE - Perimeter lighting tilted by 5°

NOTE - Wall lighting tilted by 25°

NOTE - Wall lighting tilted by 25°

NOTE - Assumed Spill light contribution from internal shop front incorporated within external car park lighting levels.

Linear luminaires required to provide overall uniformity.

WAKEFIELD ROAD

Dismantled Railway

Bush

Pipe

LF6 96.515

LF7 94.783

Delapidated

Elec. Prem

Building Rubble

Brick Trnl

Tarmac

Lockable Bollard

Open Board 2m

Heavily Overgrown No Access

Culverts

LF10 94.846

LF11 95.606

LF13 96.245

Nursery School

LF12

MH

97.9m

N

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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

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Project Number: O-2092338

Scale & Sheet Size: 1:250 @ A1

Sheet No: DWG 01

Project Name: LiDL Mapplewell Carpark

Drawing Name: PROPOSED LIGHTING LAYOUT