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

- **Lighting levels in accordance with the Lidl specification. With medium use car parking (15 lux average min 25% UO) as per BS5489 standards.**
- **"Signify has not undertaken any emergency lighting calculations. Luminaires marked as emergency fittings are for indicative purposes only. It is the responsibility of the Principle Designer to ensure emergency lighting calculations are performed and that all emergency evacuation routes are lit to a suitable standard."**

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.

Luminaire Schedule

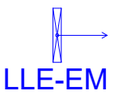
LL-A 3000K
lamp(s): LED49-4S/830
candela file 'LL-A 4.9klm 3000K.ldt'
1 lamp(s) per luminaire, 4900 initial lumens per lamp
Maintenance Factor = 0.760, watts per luminaire = 35
Outreach (from mounting axis to photometric center)= 400 mm
tilt angle= 5 deg
mounting height= 6 m
number locations= 4, number luminaires= 4

LL-C 3000K
lamp(s): LED75-4S/830
candela file 'LL-C 7.5klm 3000K.ldt'
1 lamp(s) per luminaire, 7500 initial lumens per lamp
Maintenance Factor = 0.760, watts per luminaire = 52
Outreach (from mounting axis to photometric center)= 400 mm
tilt angle= 5 deg
mounting height= 6 m
number locations= 1, number luminaires= 1

LL-C 3000K
lamp(s): LED75-4S/830
2 luminaires per location, candela file 'LL-C 7.5klm 3000K.ldt'
1 lamp(s) per luminaire, 7500 initial lumens per lamp
Maintenance Factor = 0.760, watts per luminaire = 52
Outreach (from mounting axis to photometric center)= 900 mm
tilt angle= 5 deg
mounting height= 6 m
number locations= 2, number luminaires= 4

LL-Canopy 4000K
lamp(s): LED20S/840
candela file 'LL-CANOPY.ldt'
1 lamp(s) per luminaire, 1900 initial lumens per lamp
Maintenance Factor = 0.810, watts per luminaire = 16
Outreach (from mounting axis to photometric center)= 0 mm
mounting height= 3.25 m
number locations= 19, number luminaires= 19

LL-E 3000K
lamp(s): LED42S/830
candela file 'LL-E 3000K.ldt'
1 lamp(s) per luminaire, 3900 initial lumens per lamp
Maintenance Factor = 0.810, watts per luminaire = 26
Outreach (from mounting axis to photometric center)= 0 mm
tilt angle= 10 deg
mounting height= 3.25 m
number locations= 4, number luminaires= 4



LL-E 3000K
lamp(s): LED42S/830
candela file 'LL-E 3000K.ldt'
1 lamp(s) per luminaire, 3900 initial lumens per lamp
Maintenance Factor = 0.810, watts per luminaire = 26
Outreach (from mounting axis to photometric center)= 0 mm
tilt angle= 10 deg
mounting height= 3.25 m
number locations= 18, number luminaires= 18

Philips Lighting Contacts

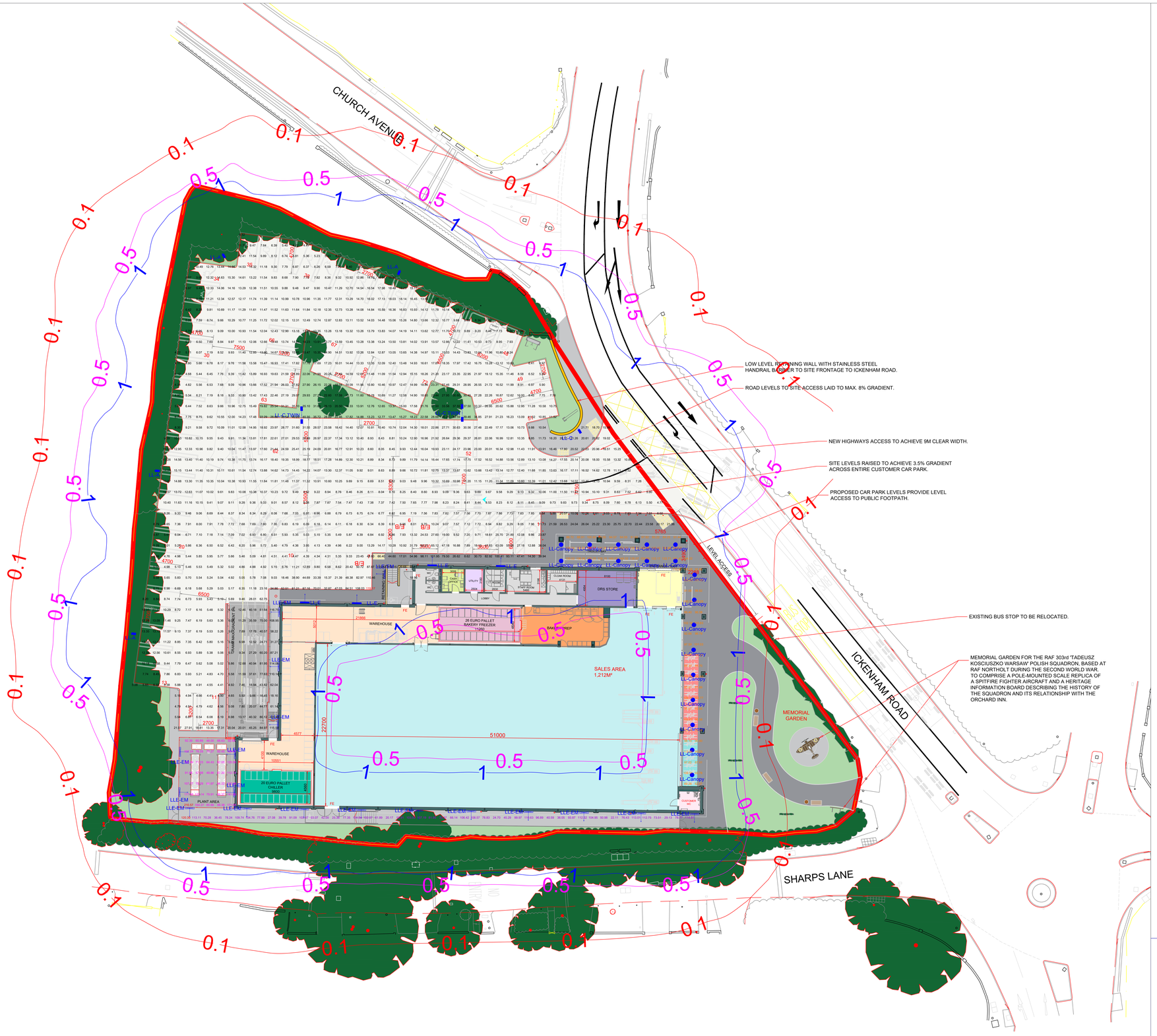
Richard Fortune, Key Account Manager - +44 (0) 7787 004900
Richard.Fortune@signify.com

PROPOSAL
(NOT FOR CONSTRUCTION)

Rev	DSR no.	Comment	Date	LiAS	KAM
0	D-581079	INITIAL PROPOSAL	25.07.24	CP	RF
1	5985002	NEW LAYOUT	20.01.25	CP	RF

Project Number: 501687043
Scale & Sheet Size: NTS @ A3
Sheet No: DWG 00

Project Name: LIDL SOUTH RUISLIP
Drawing Name: LiAS DESIGN NOTES & LUMINAIRE SCHEDULE



LL-A
LL-A 3000K
lamp(s): LED49-4S/830
candela file 'LL-A 4.9klm 3000K.ldt'
1 lamp(s) per luminaire, 4900 initial lumens per lamp
Maintenance Factor = 0.760, watts per luminaire = 35
Outreach (from mounting axis to photometric center)= 400 mm
tilt angle= 5 deg
mounting height= 6 m
number locations= 4, number luminaires= 4

LL-C
LL-C 3000K
lamp(s): LED75-4S/830
candela file 'LL-C 7.5klm 3000K.ldt'
1 lamp(s) per luminaire, 7500 initial lumens per lamp
Maintenance Factor = 0.760, watts per luminaire = 52
Outreach (from mounting axis to photometric center)= 400 mm
tilt angle= 5 deg
mounting height= 6 m
number locations= 1, number luminaires= 1

LL-C TWIN
LL-C 3000K
lamp(s): LED75-4S/830
2 luminaires per location, candela file 'LL-C 7.5klm 3000K.ldt'
1 lamp(s) per luminaire, 7500 initial lumens per lamp
Maintenance Factor = 0.760, watts per luminaire = 52
Outreach (from mounting axis to photometric center)= 900 mm
tilt angle= 5 deg
mounting height= 6 m
number locations= 2, number luminaires= 4

LL-Canopy
LL-Canopy 4000K
lamp(s): LED20S/840
candela file 'LL-CANOPY.ldt'
1 lamp(s) per luminaire, 1900 initial lumens per lamp
Maintenance Factor = 0.810, watts per luminaire = 16
Outreach (from mounting axis to photometric center)= 0 mm
mounting height= 3.25 m
number locations= 19, number luminaires= 19

LL-E
LL-E 3000K
lamp(s): LED42S/830
candela file 'LL-E 3000K.ldt'
1 lamp(s) per luminaire, 3900 initial lumens per lamp
Maintenance Factor = 0.810, watts per luminaire = 26
Outreach (from mounting axis to photometric center)= 0 mm
tilt angle= 10 deg
mounting height= 3.25 m
number locations= 4, number luminaires= 4

LLE-EM
LL-E 3000K
lamp(s): LED42S/830
candela file 'LL-E 3000K.ldt'
1 lamp(s) per luminaire, 3900 initial lumens per lamp
Maintenance Factor = 0.810, watts per luminaire = 26
Outreach (from mounting axis to photometric center)= 0 mm
tilt angle= 10 deg
mounting height= 3.25 m
number locations= 18, number luminaires= 18

Car Park
1244 points at z=0, sp 1.5m by 1.5m
HORIZONTAL LUX

Average	15.37
Maximum	119.17
Minimum	3.95
Min/Avg(Uo)	0.257
Min/Max	0.033
Coef Var	1.015
UnifGrad	4.70

Canopy
77 points at z=0, sp 1.5m by 1.5m
HORIZONTAL LUX

Average	110.45
Maximum	166.17
Minimum	62.57
Min/Avg(Uo)	0.567
Min/Max	0.377
Coef Var	0.217
UnifGrad	1.70

Rear Walkway
48 points
HORIZONTAL LUX

Average	76.72
Maximum	120.39
Minimum	20.17
Min/Avg(Uo)	0.263
Min/Max	0.168
Coef Var	0.410

Plant Area
35 points at z=0, sp 1.5m by 1.5m
HORIZONTAL LUX

Average	99.70
Maximum	210.57
Minimum	48.00
Min/Avg(Uo)	0.481
Min/Max	0.228
Coef Var	0.369
UnifGrad	1.94

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
(NOT FOR CONSTRUCTION)

Rev	DSR no.	Comment	Date	LiAS	KAM
0	D-581079	INITIAL PROPOSAL	25.07.24	CP	RF
1	5985002	NEW LAYOUT	20.01.25	CP	RF

Project Number
501687043

Scale & Sheet Size
1:200 @ A0

Sheet No
DWG 01

Project Name
LIDL SOUTH RUISLIP

Drawing Name
PROPOSED LIGHTING LAYOUT