

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:

- 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

CP

Luma Gen2 Medium BGP704 80 LED DX51 17KLM WW 3000K
lamp(s): LED-HB 5.2S 730
candela file 'Luma Gen2 Medium_BGP704_DX51_17000_80LED_5.2S_CLO_L90_730.ies'
1 lamp(s) per luminaire, 17000 initial lumens per lamp
Maintenance Factor = 0.760, watts per luminaire = 100
Outreach (from mounting axis to photometric center)= 400 mm
tilt angle= 5 deg
mounting height= 5 m
number locations= 3, number luminaires= 3

CP1

Luma Gen2 Medium BGP704 80 LED DX51 19.5KLM WW 3000K
lamp(s): LED-HB 5.2S 730
candela file 'Luma Gen2 Medium_BGP704_DX51_19500_80LED_5.2S_CLO_L90_730.ies'
1 lamp(s) per luminaire, 19500 initial lumens per lamp
Maintenance Factor = 0.760, watts per luminaire = 117
Outreach (from mounting axis to photometric center)= 1400 mm
tilt angle= 5 deg
mounting height= 5 m
number locations= 4, number luminaires= 4

OptiSpace Bollard BCB500 T25 1 xLED25/830 A
lamp(s): LED25/830
candela file 'BCB500 T25 1 xLED25_830 A.Idt'
1 lamp(s) per luminaire, 2500 initial lumens per lamp
Maintenance Factor = 0.760, watts per luminaire = 22
Outreach (from mounting axis to photometric center)= 0 mm
mounting height= 1.05 m
number locations= 5, number luminaires= 5

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

Average	25.81
Maximum	68.88
Minimum	1.20
Min/Avg(Uo)	0.046
Min/Max	0.017
Coef Var	0.641
UnifGrad	4.99

Footpath
35 points at z=0, sp 1m by 1m
HORIZONTAL LUX

Average	22.65
Maximum	42.41
Minimum	12.47
Min/Avg(Uo)	0.550
Min/Max	0.294
Coef Var	0.269
UnifGrad	1.78

Rev	DSR no.	Comment	Date	LiAS	KAM
0	6884070	INITIAL PROPOSAL	16.04.26	CP	LC
1	7003414	COLUMN RELOCATIONS/LIGHT MITIGATION	18.06.26	CP	LC

Project Number
501734912
Scale & Sheet Size
NTS @ A3
Sheet No
DWG 00

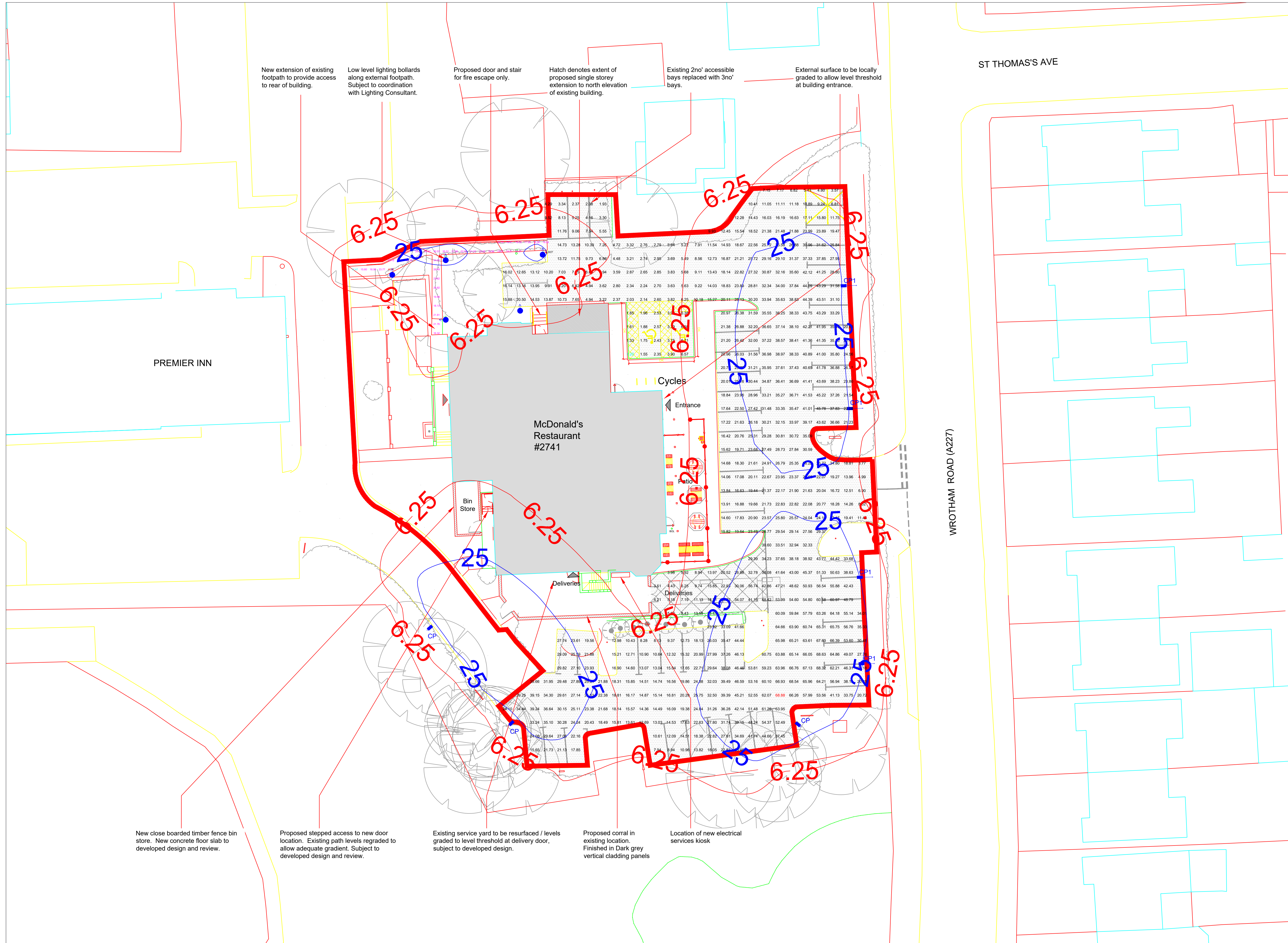
Project Name
MCDONALDS WOODLANDS GRAVESEND
Drawing Name
LIAS DESIGN NOTES & LUMINAIRE SCHEDULE

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.

PROPOSAL

(NOT FOR CONSTRUCTION)





- CP** Luma Gen2 Medium BGP704 80 LED DXS1 17KLM WW 3000K
lamp(s): LED-HB 6.25 730
candela file: Luma Gen2 Medium_BGP704_DX1_17000_80LED_5.25_CLO_L90_730.lvs
1 lamp(s) per luminaire, 17000 initial lumens per lamp
Maintenance Factor = 0.750, watts per luminaire = 100
Outreach (from mounting axis to photometric center) = 400 mm
tilt angle = 5 deg
mounting heights: 5 m
number locations = 3, number luminaires = 3
- CP1** Luma Gen2 Medium BGP704 80 LED DXS1 19.5KLM WW 3000K
lamp(s): LED-HB 6.25 730
candela file: Luma Gen2 Medium_BGP704_DX1_19500_80LED_5.25_CLO_L90_730.lvs
1 lamp(s) per luminaire, 19500 initial lumens per lamp
Maintenance Factor = 0.750, watts per luminaire = 117
Outreach (from mounting axis to photometric center) = 1400 mm
tilt angle = 5 deg
mounting heights: 5 m
number locations = 4, number luminaires = 4
- OptiSpace Bollard BCB500 T25 1 xLED25/830 A
lamp(s): LED25/830
candela file: BCB500 T25 1 xLED25_830 A.lvs
1 lamp(s) per luminaire, 2500 initial lumens per lamp
Maintenance Factor = 0.750, watts per luminaire = 22
Outreach (from mounting axis to photometric center) = 0 mm
mounting heights: 1.05 m
number locations = 5, number luminaires = 5
- Car Park
695 points at z=0, sp 1.5m by 1.5m
HORIZONTAL LUX
Average: 25.81
Maximum: 68.88
Minimum: 1.20
Min/Avg(Uo): 0.045
Min/Max: 0.017
Coef Var: 0.641
UnitGrad: 4.99
- Footcandle
35 points at z=0, sp 1m by 1m
HORIZONTAL LUX
Average: 22.85
Maximum: 42.41
Minimum: 12.47
Min/Avg(Uo): 0.550
Min/Max: 0.294
Coef Var: 0.269
UnitGrad: 1.78

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	6884070	INITIAL PROPOSAL	16.04.26	CP	LC
1	7003414	COLUMN RELOCATIONS/LIGHT MITIGATION	18.06.26	CP	LC

Project Number	501734912
Scale & Sheet Size	1:200 @ A1
Sheet No	DWG 01



Project Name

MCDONALDS WOODLANDS GRAVESEND

Drawing Name

PROPOSED LIGHTING LAYOUT