

DATE: 14 June 2019
DESIGNER: KM
PROJECT No: C85850
PROJECT NAME: Bartons Road, Havant



S278 Street Lighting Design to BS EN 13201:2015

Rev A

Grid 1

Class C3

Eav = 15.00 min

Emin/Eav = 0.40

Result:

Eav = 17.82

Emin = 0.43

Grid 2

Class C3

Eav = 15.00 min

Emin/Eav = 0.40

Result:

Eav = 15.07

Emin = 0.71

This report is to be read in conjunction with drawing no. C85850-D207

C85850-C110 A S278 Street Lighting

PREPARED BY: JNP Group
3rd Floor
Marlborough House
48 Holly Walk
Leamington Spa
CV32 4XP

e-mail: midlands@jnpgroup.co.uk
website: www.jnpgroup.co.uk

Layout Report

General Data

Dimensions in Metres Angles in Degrees

Calculation Grids

ID	Grid Name	X	Y	X' Length	Y' Length	X' Spacing	Y' Spacing
1	Grid 1	473289.54	107977.77	171.51	61.02	1.49	1.49
2	Grid 2	473388.35	107990.34	20.98	6.70	1.50	1.34

Luminaires

Luminaire A Data



Supplier	Philips
Type	BGP615 DW50 BL1
Lamp(s)	LED-HB 5.1S
Lamp Flux (klm)	5.40
File Name	Luma_Micro_BGP615_DW50_BLI_5400_20L ED_5.1S_CLO_L90_NW.ies
Maintenance Factor	0.88
Imax70,80,90(cd/klm)	602.5, 31.2, 0.0
Lamp S/P Ratio	1.61
No. in Project	1

Luminaire B Data



Supplier	Philips
Type	SGS253 FG OR P3
Lamp(s)	SON-TPP150W
LampFlux(klm)/Colour	17.50 -/-
File Name	SGS253 FG 1xSON-TPP150W OR P3.klt
Maintenance Factor	0.88
Imax70,80,90(cd/klm)	306.5, 10.0, 0.0
Lamp S/P Ratio	0.00
No. in Project	7

Luminaire C Data

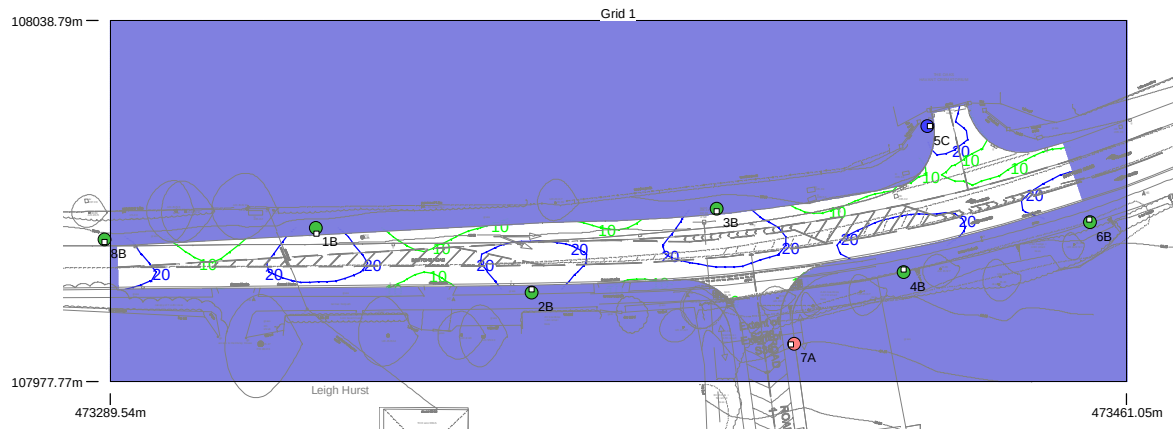
Supplier	Philips
Type	2680 XNN G#
Lamp(s)	1MT 60W 6900 PGZ12
Lamp Flux (klm)	6.90
File Name	Arc 2680 XNN G# 1MT 60W 6900 PGZ12.LDT
Maintenance Factor	0.88
Imax70,80,90(cd/klm)	450.2, 88.4, 10.0
Lamp S/P Ratio	1.15
No. in Project	1

Layout

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
1	B	473324.25	108003.82	10.00	271.00	5.00	0.00	1.00			
2	B	473360.60	107992.90	10.00	91.00	5.00	0.00	0.50			
3	B	473391.80	108007.07	10.00	277.00	5.00	0.00	0.50			
4	B	473423.41	107996.31	10.00	101.00	5.00	0.00	0.50			
5	C	473427.38	108020.93	6.00	13.00	5.00	0.00	0.40			
6	B	473454.82	108004.77	10.00	107.00	5.00	0.00	0.50			
7	A	473404.86	107984.25	6.00	188.00	5.00	0.00	0.50			
8	B	473288.59	108001.89	10.00	270.00	5.00	0.00	0.50			
9	B	473488.47	108020.65	10.00	115.00	5.00	0.00	0.50			

Horizontal Illuminance (lux)

Grid 1

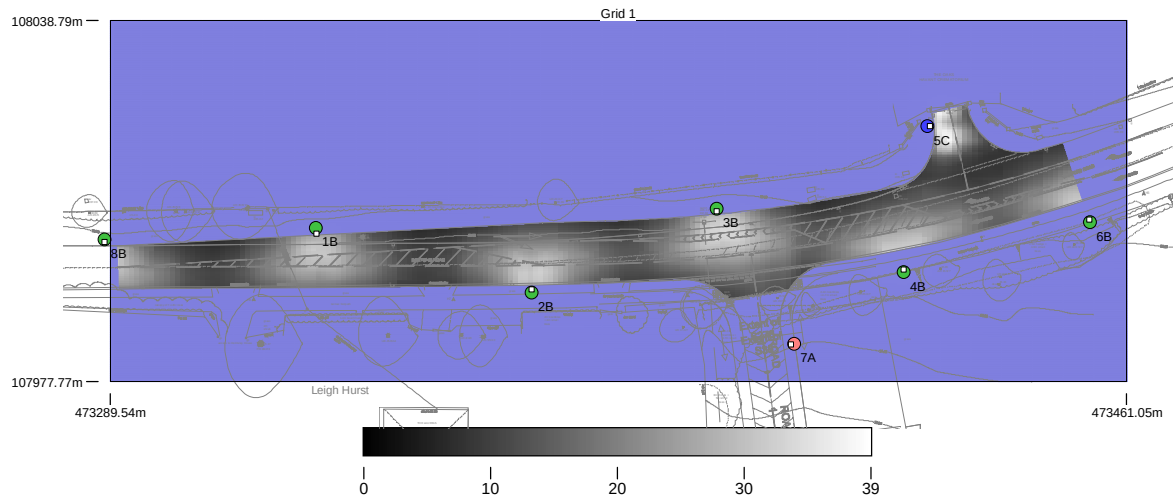


Results

Eav	17.82
Emin	7.62
E _{max}	39.43
Emin/E _{max}	0.19
Emin/Eav	0.43

Horizontal Illuminance (lux)

Grid 1

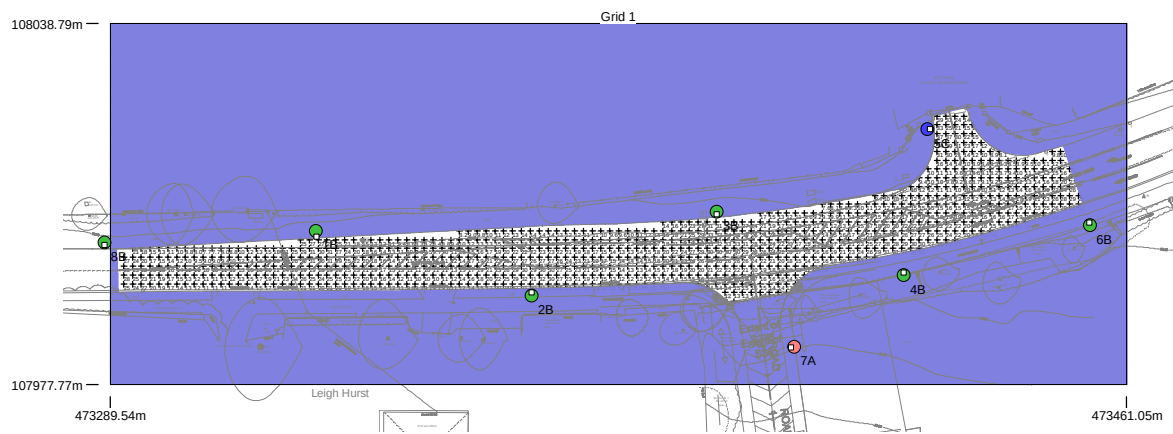


Results

Eav	17.82
Emin	7.62
Emax	39.43
Emin/Emax	0.19
Emin/Eav	0.43

Horizontal Illuminance (lux)

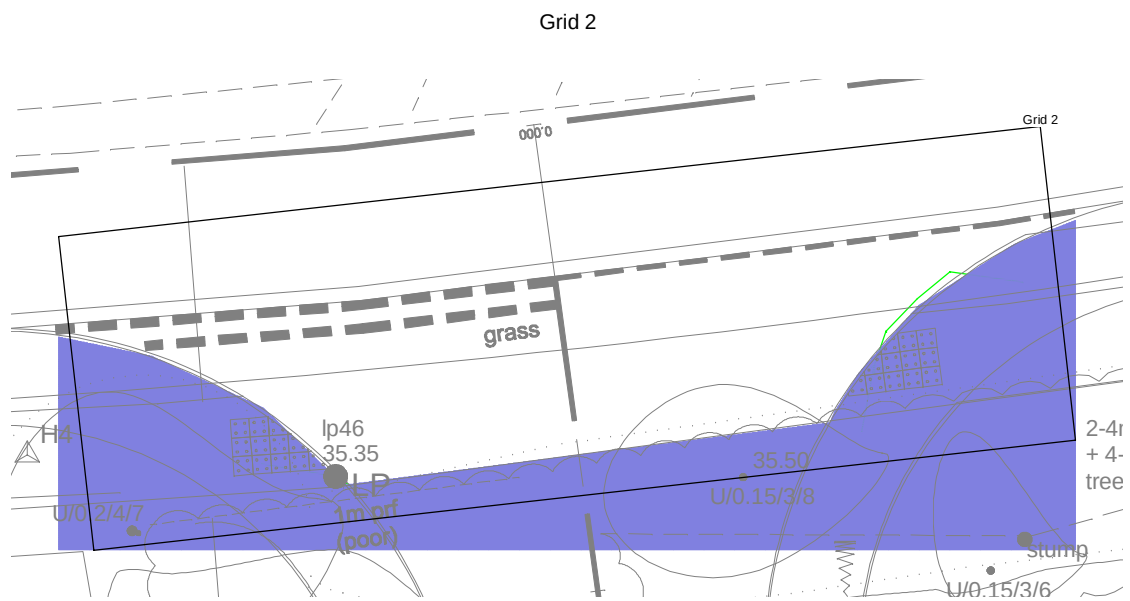
Grid 1



Results

Eav	17.82
Emin	7.62
E _{max}	39.43
Emin/E _{max}	0.19
Emin/Eav	0.43

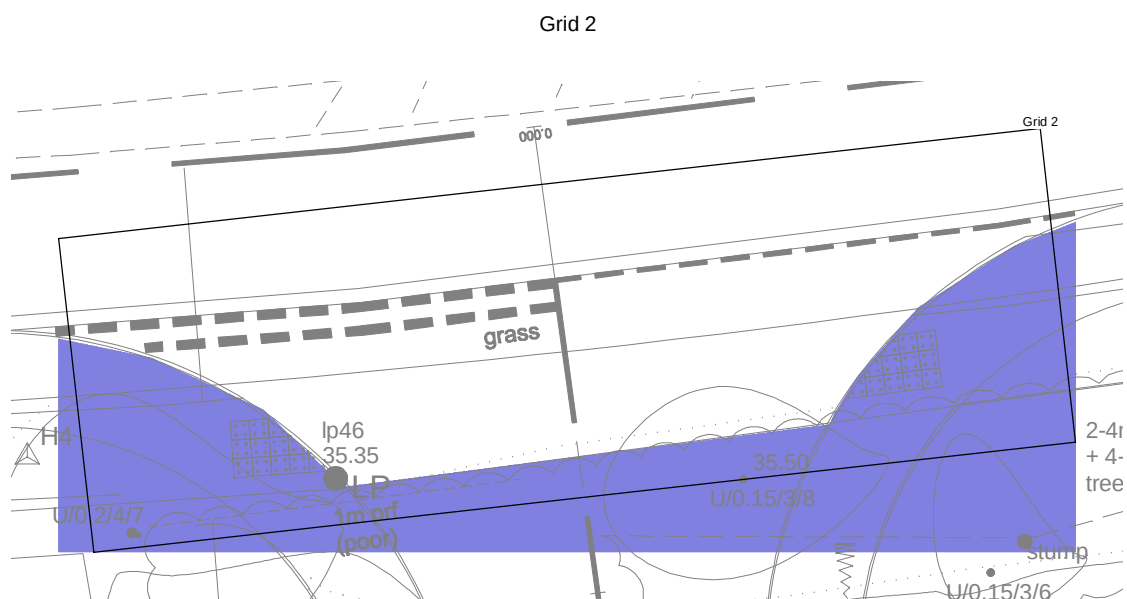
Horizontal Illuminance (lux)



Results

Eav	15.07
Emin	10.68
E _{max}	19.82
Emin/E _{max}	0.54
Emin/Eav	0.71

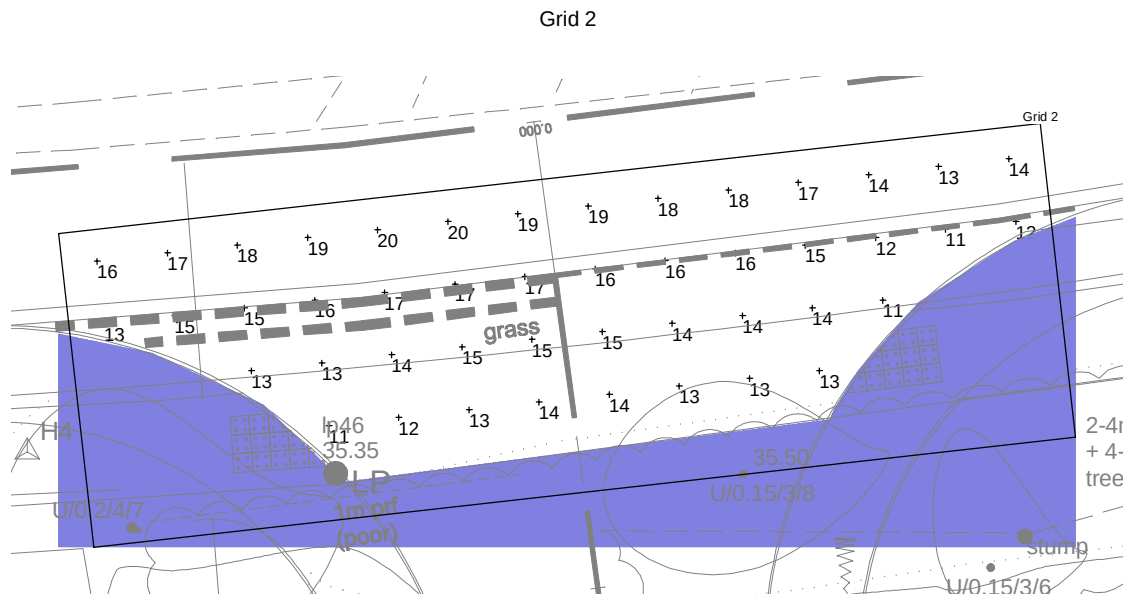
Horizontal Illuminance (lux)



Results

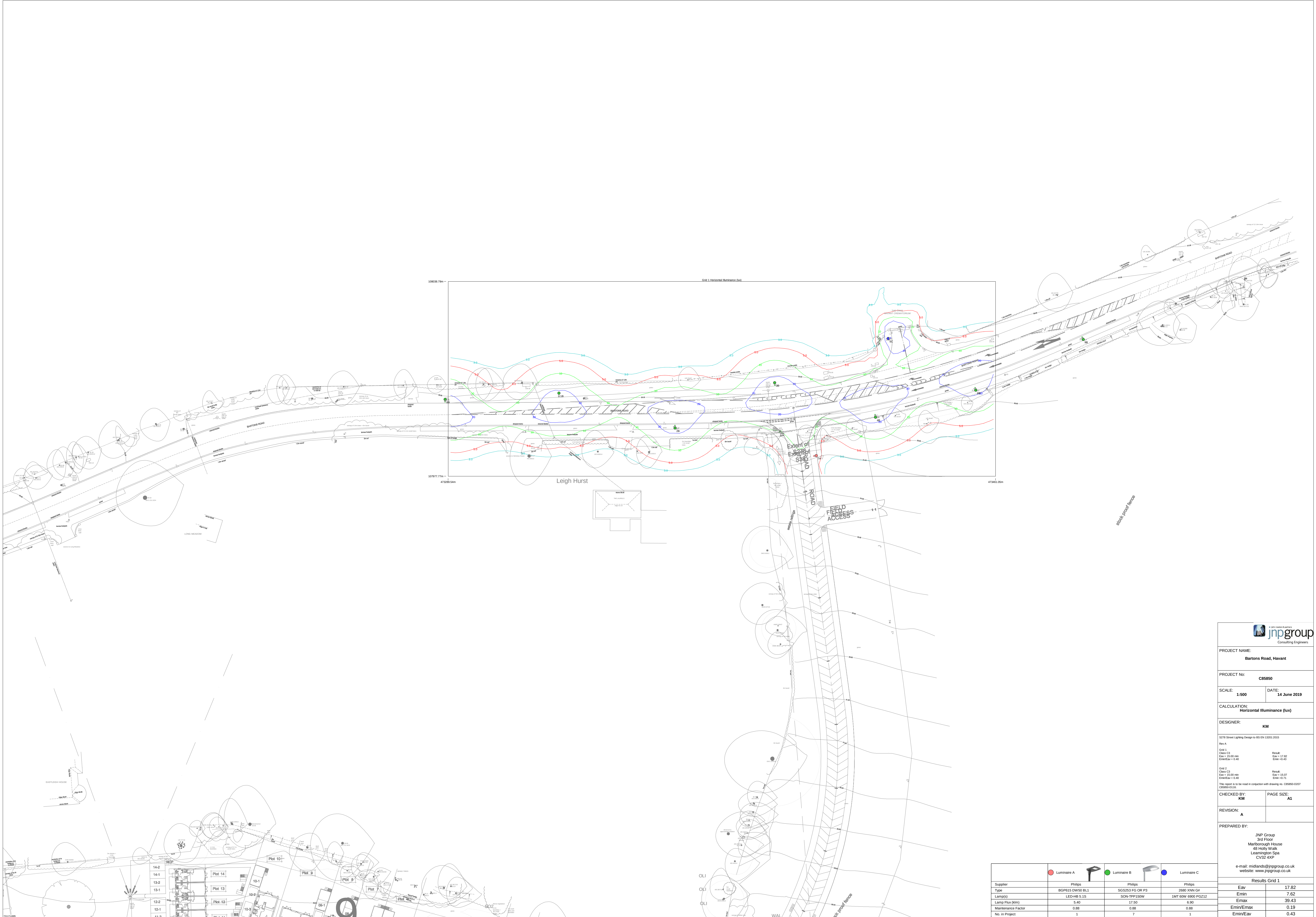
Eav	15.07
Emin	10.68
Emax	19.82
Emin/Emax	0.54
Emin/Eav	0.71

Horizontal Illuminance (lux)



Results

Eav	15.07
Emin	10.68
E _{max}	19.82
Emin/E _{max}	0.54
Emin/Eav	0.71





JNPgroup
Consulting Engineers

PROJECT NAME:
Bartons Road, Havant

PROJECT No: **C85850**

SCALE: **1:500** DATE: **14 June 2019**

CALCULATION:
Horizontal Illuminance (lux)

DESIGNER:
KM

S278 Street Lighting Design to BS EN 13201:2015

Rev A	
Grid 1	Result:
Type: Class C3	Eav = 17.82
Eav = 15.00 m	Emin = 7.62
EmaxEav = 0.40	Emin = 0.43

Grid 2	Result:
Type: Class C3	Eav = 15.07
Eav = 15.00 m	Emin = 0.71
EmaxEav = 0.40	Emin = 0.43

This report is to be read in conjunction with drawing no. C85850-0207 C85850-0118

CHECKED BY:	PAGE SIZE:
KM	A1

REVISION:	
A	

PREPARED BY:

JNP Group
3rd Floor
Marlborough House
48 Holly Walk
Leamington Spa
CV32 4XP

e-mail: midlands@jnpgroup.co.uk
website: www.jnpgroup.co.uk

Results Grid 1			
Supplier	Philips	Philips	Philips
Type	BGP615 DW50 BL1	SG5253 FO CR P3	2800 XNA GU
Lamp(s)	LED-HB 5.1S	SON-TFP150W	1MT 60W 6900 PG212
Lamp Flux (lm)	5.40	17.50	6.90
Maintenance Factor	0.88	0.88	0.88
No. in Project	1	7	1

Eav	17.82
Emin	7.62
Emax	39.43
Emin/Emax	0.19
Emin/Eav	0.43

		Luminaire A		Luminaire B		Luminaire C
Supplier	Philips	Philips	Philips	Philips	Philips	Philips
Type	BGP615 DW50 BL1	SG5253 FO CR P3	2800 XNA GU	1MT 60W 6900 PG212	1MT 60W 6900 PG212	1MT 60W 6900 PG212
Lamp(s)	LED-HB 5.1S	SON-TFP150W	SON-TFP150W	SON-TFP150W	SON-TFP150W	SON-TFP150W
Lamp Flux (lm)	5.40	17.50	17.50	6.90	6.90	6.90
Maintenance Factor	0.88	0.88	0.88	0.88	0.88	0.88
No. in Project	1	7	7	1	1	1