

DATE: 25 September 2018
DESIGNER: CT
PROJECT No: C85850
PROJECT NAME: Bartons Road, Havant



S278 Street Lighting Design to BS EN 13201:2015

Grid 1

Class C3

Eav = 15.00 min

Emin/Eav = 0.40

Result:

Eav = 17.61

Emin = 0.27

Grid 2

Class C3

Eav = 15.00 min

Emin/Eav = 0.40

Result:

Eav = 13.43

Emin = 0.53

This report is to be read in conjunction with drawing no. C85850-D116.

C85850-C110 - S278 Street Lighting

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

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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	473322.43	107977.18	143.08	52.93	1.49	1.47
2	Grid 2	473387.60	107990.30	20.98	6.70	1.50	1.34

Luminaires

Luminaire A Data



Supplier	Philips
Type	BGP615 DM70
Lamp(s)	LED-HB 5S/740
Lamp Flux (klm)	1.40
File Name	Luma_Micro_BGP615_DM70_1400_12LED_205mA_5S_CLO L90_NW.ies
Maintenance Factor	0.88
Imax70,80,90(cd/klm)	405.6, 354.6, 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.ltd
Maintenance Factor	0.88
Imax70,80,90(cd/klm)	306.5, 10.0, 0.0
Lamp S/P Ratio	0.00
No. in Project	5

Luminaire C Data

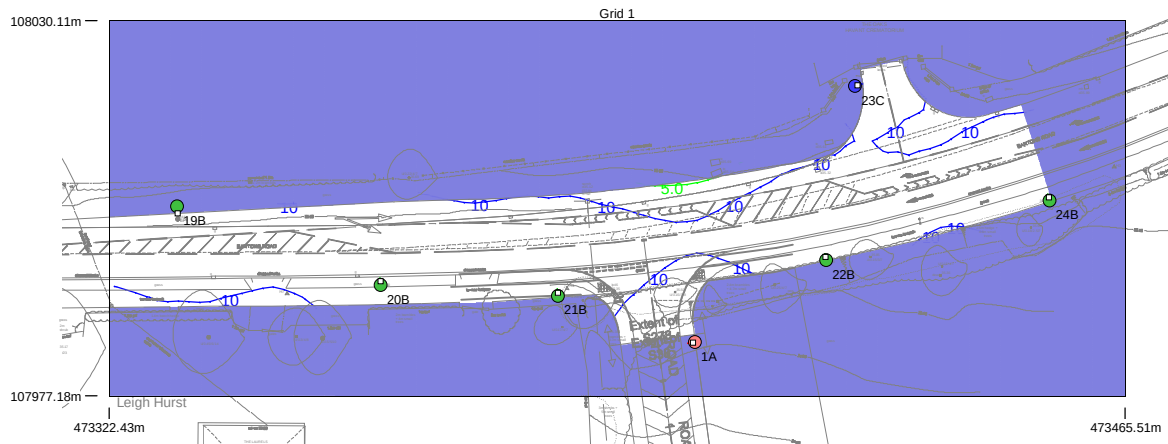
Supplier	Philips
Type	2680 XNN G#
Lamp(s)	1MT 60W 6900 PGZ12
Lamp Flux (klm)	6.90
File Name	Arc 2680 XNN G# 1MT 60W 6900 PGZ12.LDT
Maintenance Factor	0.88
Imax70,80,90(cd/klm)	450.2, 88.4, 10.0
Lamp S/P Ratio	1.15
No. in Project	1

Layout

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
1	A	473404.86	107984.86	6.00	188.00	0.00	0.00	0.30			
19	B	473331.98	108003.97	10.00	273.00	5.00	0.00	1.00			
20	B	473360.60	107992.90	10.00	91.00	5.00	0.00	0.50			
21	B	473385.61	107991.34	10.00	95.00	5.00	0.00	0.50			
22	B	473423.35	107996.37	10.00	101.00	5.00	0.00	0.50			
23	C	473427.38	108020.93	6.00	13.00	5.00	0.00	0.40			
24	B	473454.82	108004.77	10.00	107.00	5.00	0.00	0.50			

Horizontal Illuminance (lux)

Grid 1

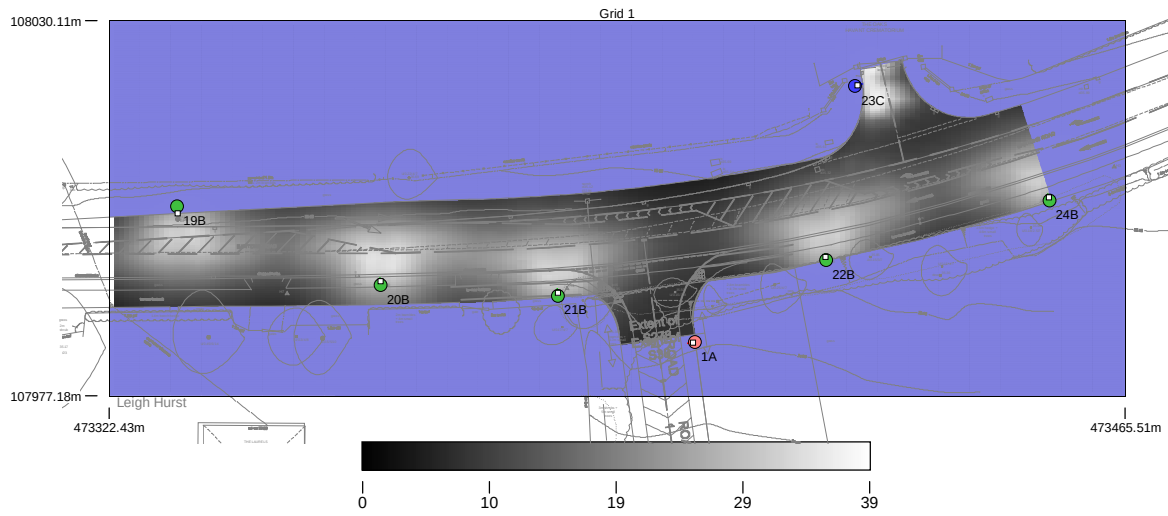


Results

Eav	17.61
Emin	4.79
E _{max}	38.86
Emin/E _{max}	0.12
Emin/Eav	0.27

Horizontal Illuminance (lux)

Grid 1

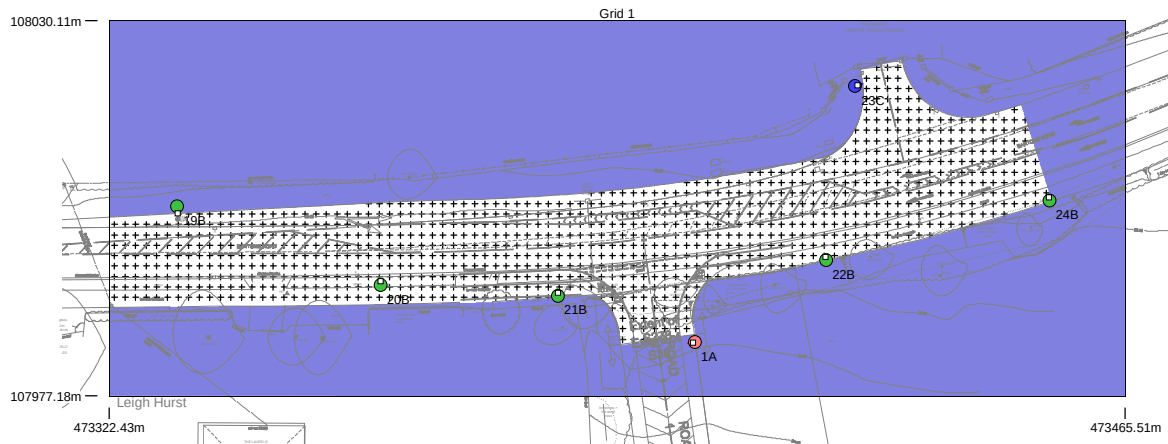


Results

Eav	17.61
Emin	4.79
Emax	38.86
Emin/Emax	0.12
Emin/Eav	0.27

Horizontal Illuminance (lux)

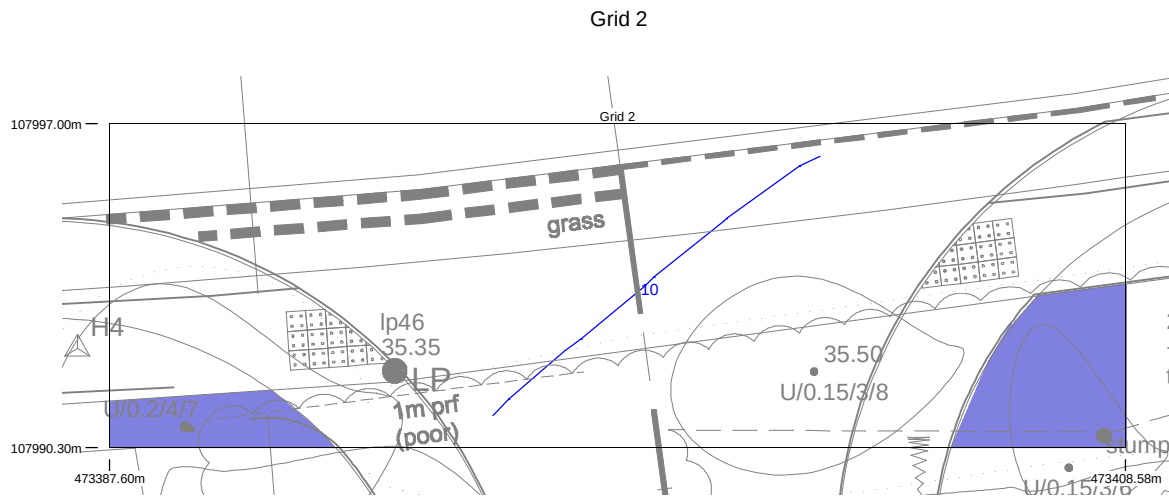
Grid 1



Results

Eav	17.61
Emin	4.79
Emax	38.86
Emin/Emax	0.12
Emin/Eav	0.27

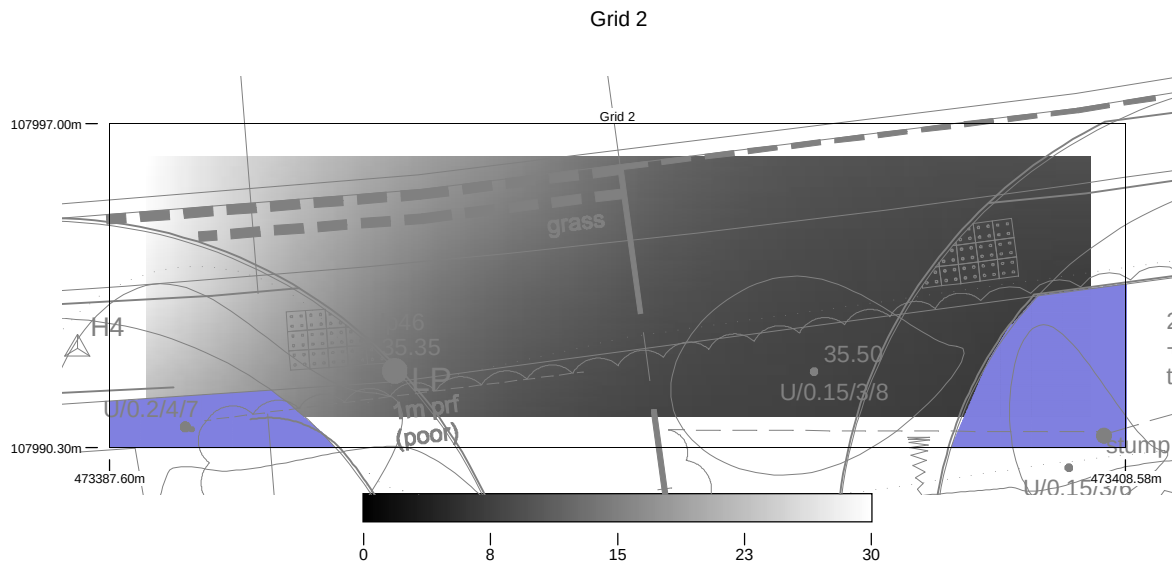
Horizontal Illuminance (lux)



Results

Eav	13.42
Emin	7.10
Emax	30.16
Emin/Emax	0.24
Emin/Eav	0.53

Horizontal Illuminance (lux)

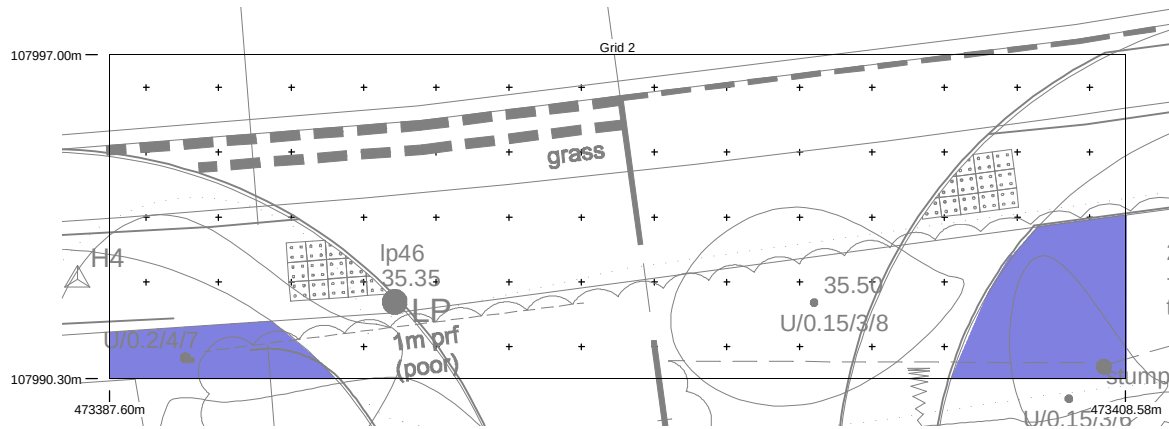


Results

Eav	13.42
Emin	7.10
Emax	30.16
Emin/Emax	0.24
Emin/Eav	0.53

Horizontal Illuminance (lux)

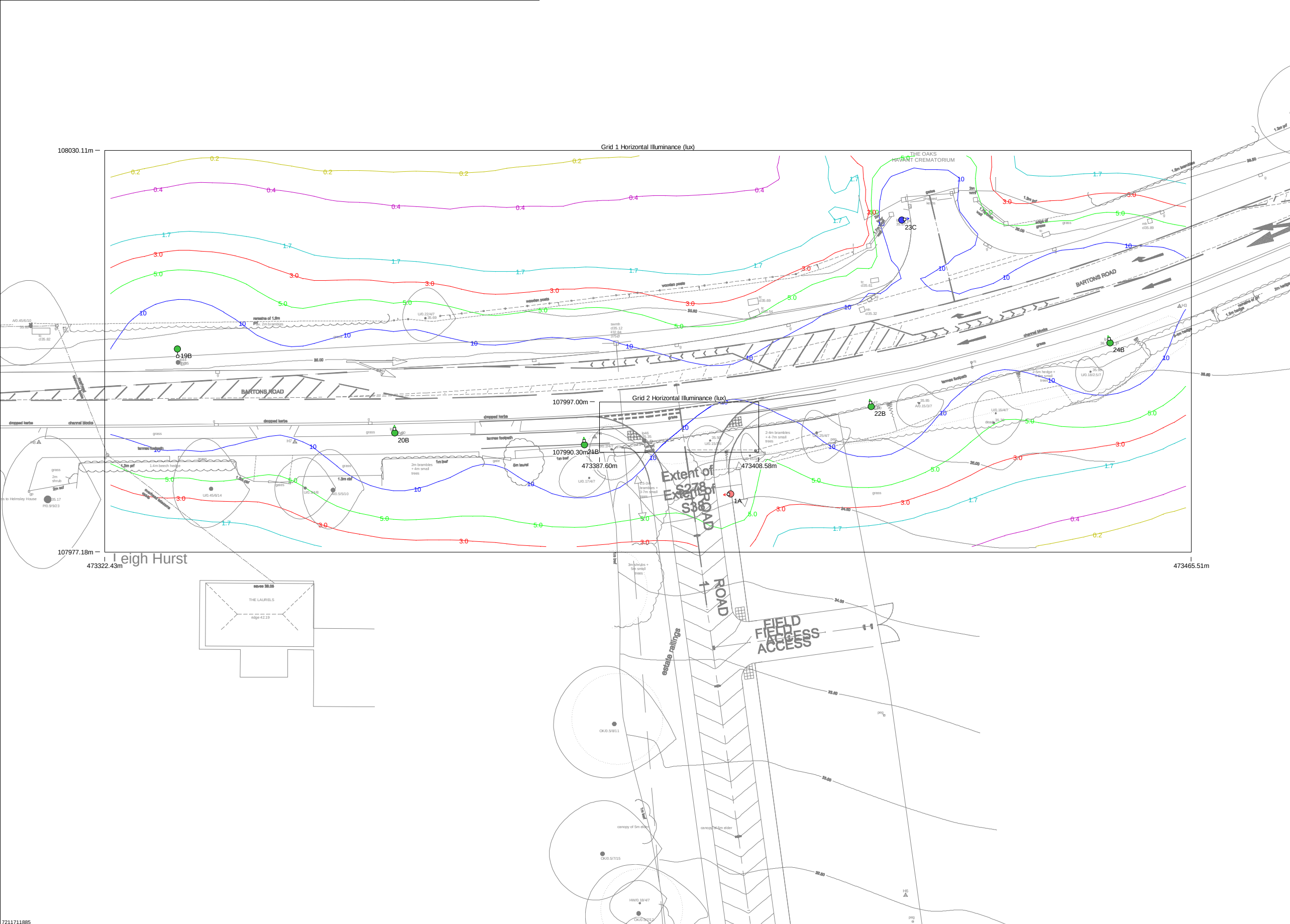
Grid 2



Results

Eav	13.42
Emin	7.10
Emax	30.16
Emin/Emax	0.24
Emin/Eav	0.53

	Luminaire A	Luminaire B	Luminaire C
Supplier	Philips	Philips	Philips
Type	BGP615 DM70	SGS253 FG OR P3	2680 XNN G#
Lamp(s)	LED-HB 5S/740	SON-TPP150W	1MT 60W 6900 PGZ12
Lamp Flux (klm)	1.40	17.50	6.90
Maintenance Factor	0.88	0.88	0.88
No. in Project	1	5	1



John Newton & Partners jnp group Consulting Engineers	
PROJECT NAME: Bartons Road, Havant	
PROJECT No: C85850	
SCALE: 1:500	DATE: 25 September 2018
CALCULATION: Horizontal Illuminance (lux)	
DESIGNER: CT	
S278 Street Lighting Design to BS EN 13201:2015	
Grid 1 Class C3 Eav = 15.00 min Emin/Eav = 0.40	Result: Eav = 17.61 Emin = 0.27
Grid 2 Class C3 Eav = 15.00 min Emin/Eav = 0.40	Result: Eav = 13.43 Emin = 0.53
This report is to be read in conjunction with drawing no. C85850-D116.	
CHECKED BY: KM	REVISION: -
PREPARED BY: JNP Group 3rd Floor Marlborough House 48 Holly Walk Leamington Spa CV32 4XP e-mail: leamingtonspa@jnpgroup.co.uk website: www.jnpgroup.co.uk	
Results Grid 1	
Eav	17.61
Emin	4.79
Emax	38.86
Emin/Emax	0.12
Emin/Eav	0.27
Results Grid 2	
Eav	13.42
Emin	7.10
Emax	30.16
Emin/Emax	0.24
Emin/Eav	0.53