

Carpark

Installation : LiDL Hayling Island

Project number : D-199007/ 0244075686

Customer : LiDL

Processed by : HSR / AGG

Date : 09.06.2017

Project description:
Maintenance Factor 0.77

No obstructions are considered in these lighting calculations.

Lighting levels take into account approximated spill light from the stores sales area.

Lighting levels 15Lux Ave with 25% uniformity.

The nominal values shown in this report are the result of precision calculations, based upon precisely positioned luminaires in a fixed relationship to each other and to the area under examination. In practice the values may vary due to tolerances on luminaires, luminaire positioning, reflection properties and electrical supply.

Lighting Proposal. See attached Appendix A.

The following values are based on exact calculations on calibrated lamps, luminaires and their arrangement. In practice, gradual divergences can occur.

Guarantee claims for luminaire data are excluded.

Relux and the luminaire manufacturers accept no liability for consequential damage and damage which is occasioned to the user or to third parties.

Object : Carpark
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1 Carpark

1.1 Description, Carpark

1.1.1 Luminaire data/Room elements

Product data:

Type No.\Make

Philips Lighting		
1	22	Order No. : !Luminaire Ref: LL-E
		Luminaire name : WT460C L1300 1xLED23S/840 WB
		Equipment : 1 x LED23S/840/- 22 W / 2600 lm
2	13	Order No. : !
		Luminaire name : TMS122 1xTL5-35W HFP
		Equipment : 1 x TL5-35W/840 39 W / 1000 lm
3	6	Order No. : !Luminaire Ref: LL-CANOPY
		Luminaire name : BBS490 1xDLED-4000 PG
		Equipment : 1 x DLED-4000 33.5 W / 2260 lm
4	19	Order No. : !910770202405
		Luminaire name : LumiStreet BGP213 LED49-4S/740 I DX10 7024 D9 48/60 6m Col
		umn
		Equipment : 1 x LED-HB 940-11500 lm-4S/740 1 W / 4900 lm
6	1	Order No. : !Lantern Ref: LL-B42
		Luminaire name : BGP303 LED49-3/740PSR I DWL 42/LIDL7024 (5m MH COL)
		Equipment : 1 x LED49-3S/740 43 W / 5000 lm

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1 Carpark

1.1 Description, Carpark

1.1.1 Luminaire data/Room elements

No.	Centre point			Rotation angle			Target coordinates		
	X [m]	Y [m]	Z [m]	Z [°]	C0 [°]	C90 [°]	Xa [m]	Ya [m]	Za [m]
Philips Lighting WT460C L1300 1xLED23S/840 WB !Luminaire Ref: LL-E									
1.1	80.47	20.84	2.65	270.00	0.00	-5.00	80.47	20.61	0.00
1.2	73.22	20.84	2.65	270.00	0.00	-5.00	73.22	20.61	0.00
1.3	65.97	20.84	2.65	270.00	0.00	-5.00	65.97	20.61	0.00
1.4	58.72	20.84	2.65	270.00	0.00	-5.00	58.72	20.61	0.00
1.5	51.47	20.84	2.65	270.00	0.00	-5.00	51.47	20.61	0.00
1.6	44.22	20.84	2.65	270.00	0.00	-5.00	44.22	20.61	0.00
1.7	36.97	20.84	2.65	270.00	0.00	-5.00	36.97	20.61	0.00
1.8	29.72	20.84	2.65	270.00	0.00	-5.00	29.72	20.61	0.00
1.9	22.47	20.84	2.65	270.00	0.00	-5.00	22.47	20.61	0.00
1.10	15.22	20.84	2.65	270.00	0.00	-5.00	15.22	20.61	0.00
1.11	7.97	20.84	2.65	270.00	0.00	-5.00	7.97	20.61	0.00
4.1	12.60	34.01	2.66	180.00	0.00	-25.00	11.36	34.01	0.00
4.2	12.60	42.51	2.66	180.00	0.00	-25.00	11.36	42.51	0.00
4.3	12.60	51.01	2.66	180.00	0.00	-25.00	11.36	51.01	0.00
5.1	14.88	52.82	2.65	90.00	0.00	-10.00	14.88	53.29	0.00
5.2	21.08	52.82	2.65	90.00	0.00	-10.00	21.08	53.29	0.00
5.3	27.28	52.82	2.65	90.00	0.00	-10.00	27.28	53.29	0.00
5.4	33.48	52.82	2.65	90.00	0.00	-10.00	33.48	53.29	0.00
5.5	39.68	52.82	2.65	90.00	0.00	-10.00	39.68	53.29	0.00
5.6	45.88	52.82	2.65	90.00	0.00	-10.00	45.88	53.29	0.00
5.7	52.08	52.82	2.65	90.00	0.00	-10.00	52.08	53.29	0.00
5.8	58.28	52.82	2.65	90.00	0.00	-10.00	58.28	53.29	0.00
Philips Lighting TMS122 1xTL5-35W HFP !									
2.1	80.26	23.00	2.96	180.00	0.00	0.00	80.26	23.00	0.00
2.2	80.26	25.20	2.96	180.00	0.00	0.00	80.26	25.20	0.00
2.3	80.26	27.40	2.96	180.00	0.00	0.00	80.26	27.41	0.00
2.4	80.26	29.60	2.96	180.00	0.00	0.00	80.26	29.60	0.00
2.5	80.26	31.80	2.96	180.00	0.00	0.00	80.26	31.81	0.00
2.6	80.26	34.00	2.96	180.00	0.00	0.00	80.26	34.01	0.00
2.7	80.26	36.20	2.96	180.00	0.00	0.00	80.26	36.21	0.00
2.8	80.26	38.41	2.96	180.00	0.00	0.00	80.26	38.40	0.00
2.9	80.26	40.61	2.96	180.00	0.00	0.00	80.26	40.60	0.00
2.10	80.26	42.81	2.96	180.00	0.00	0.00	80.26	42.81	0.00
2.11	80.26	45.01	2.96	180.00	0.00	0.00	80.26	45.01	0.00
7.1	77.72	50.21	2.96	270.00	0.00	0.00	77.72	50.21	0.00
8.1	80.55	50.21	2.96	270.00	0.00	0.00	80.55	50.21	0.00
Philips Lighting BBS490 1xDLED-4000 PG !Luminaire Ref: LL-CANOPY									
9.1	61.37	54.65	3.00	0.15	0.00	0.00	61.37	54.65	0.00
9.2	65.17	54.65	3.00	0.15	0.00	0.00	65.17	54.65	0.00
9.3	68.97	54.65	3.00	0.15	0.00	0.00	68.97	54.65	0.00
9.4	72.77	54.65	3.00	0.15	0.00	0.00	72.77	54.65	0.00
9.5	76.57	54.65	3.00	0.15	0.00	0.00	76.57	54.65	0.00
9.6	80.37	54.65	3.00	0.15	0.00	0.00	80.37	54.65	0.00
Philips Lighting LumiStreet BGP213 LED49-4S/740 I DX10 7024 D9 48/60 6m Column I910770202405									
3	102.34	20.77	6.00	270.00	5.00	0.00	117.19	20.77	0.00
4	100.34	20.77	6.00	90.00	5.00	0.00	85.49	20.77	0.00
14	102.46	38.31	6.00	270.00	5.00	0.00	117.31	38.31	0.00
15	100.46	38.31	6.00	90.00	5.00	0.00	85.61	38.31	0.00

PHILIPS LIGHTING UK - Guildford
 NOT FOR CONSTRUCTION

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1 Carpark

1.1 Description, Carpark

1.1.1 Luminaire data/Room elements

16	102.34	57.73	6.00	270.00	5.00	0.00	117.19	57.73	0.00
17	100.34	57.73	6.00	90.00	5.00	0.00	85.49	57.73	0.00
18	118.61	15.22	6.00	90.00	5.00	0.00	103.75	15.22	0.00
19	118.56	37.71	6.00	90.00	5.00	0.00	103.71	37.71	0.00
20	118.84	61.68	6.00	90.00	5.00	0.00	103.99	61.68	0.00
21	83.76	14.72	6.00	270.00	5.00	0.00	98.61	14.72	0.00
22	3.02	61.13	6.00	270.00	5.00	0.00	17.87	61.13	0.00
23	32.45	75.69	6.00	270.00	5.00	0.00	47.30	75.69	0.00
24	106.31	72.14	6.00	180.00	5.00	0.00	106.31	57.29	0.00
25	86.37	72.14	6.00	180.00	5.00	0.00	86.37	57.29	0.00
26	66.44	72.14	6.00	180.00	5.00	0.00	66.44	57.29	0.00
27	46.44	72.14	6.00	180.00	5.00	0.00	46.44	57.29	0.00
29	28.44	72.10	6.00	180.00	5.00	0.00	28.44	57.24	0.00
30	8.44	72.10	6.00	180.00	5.00	0.00	8.44	57.24	0.00
31	101.34	3.93	6.00	0.00	5.00	0.00	101.34	18.78	0.00

Philips Lighting BGP303 LED49-3/740PSR I DWL 42/LIDL7024 (5m MH COL)

!Lantern Ref: LL-B42

33	127.04	65.36	5.00	49.95	5.00	0.00	124.16	67.78	0.00
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Structural elements

Virtual measuring surface

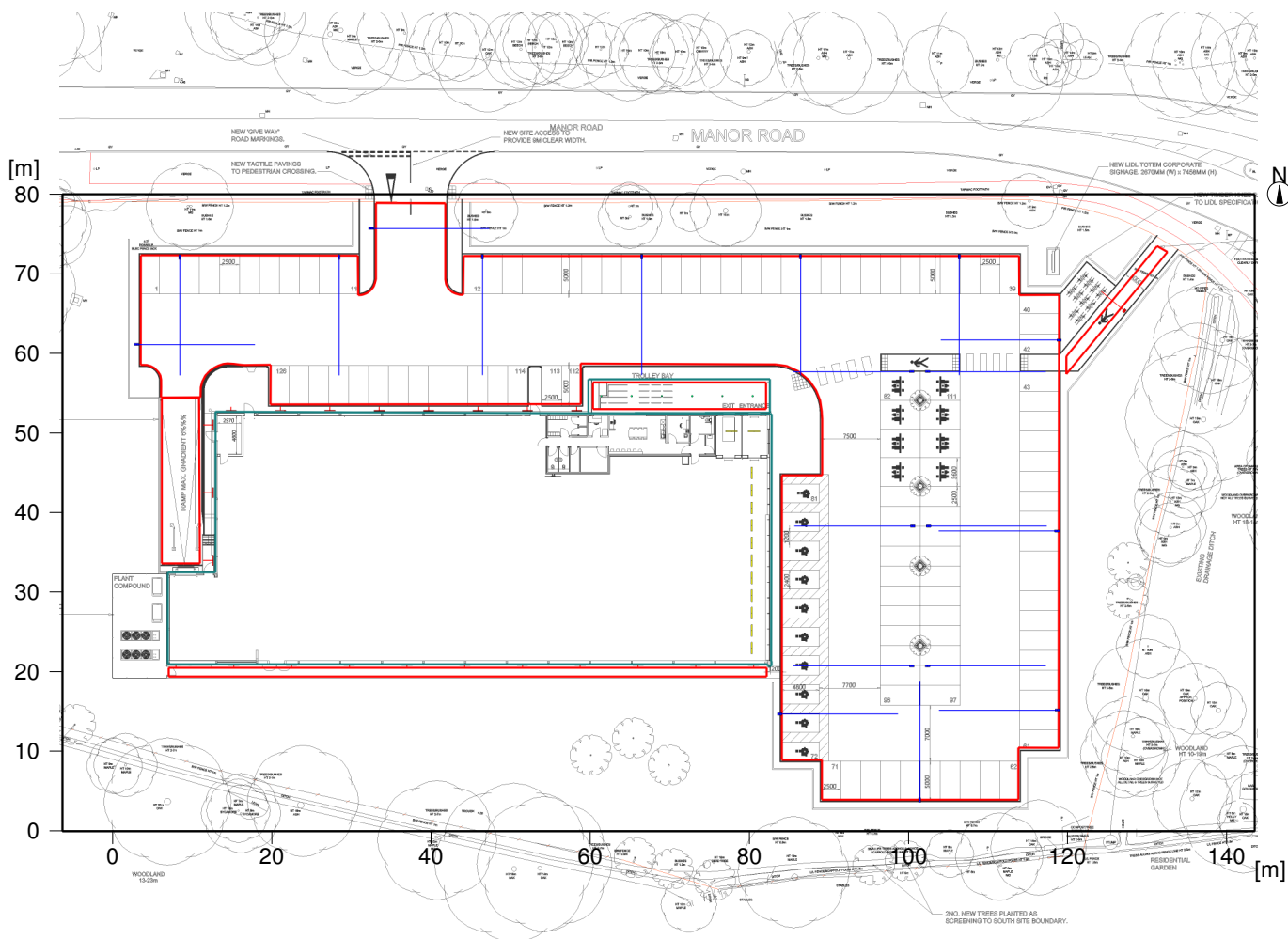
Virtual measuring surface							Rotation angle	
No.	xm[m]	ym[m]	zm[m]	Length	Width	z axis	L axis	Q axis
Carpark								
m 1	18.64	52.73	0.00	115.31	74.94	90.00	0.00	0.00
Lorry Bay								
m 2	5.67	54.37	0.00	4.79	20.73	0.00	0.00	0.00
Service Footpath								
m 3	7.05	19.43	0.00	75.08	1.10	0.00	0.00	0.00
Footpath								
m 4	119.75	57.41	0.00	12.70	16.07	90.00	0.00	0.00
Canopy								
m 5	60.31	53.01	0.00	21.74	3.36	0.00	0.00	0.00

Others

							Rotation angle	
No.	xm[m]	ym[m]	zm[m]	Length	Width	z axis	L axis	Q axis
LiDL Store								
A 1	6.93	20.97	0.00	75.82	31.91	90.00	0.00	0.00
A 2	59.73	52.52	3.00	22.79	4.25	90.00	0.00	0.00

PHILIPS

1.1.2 Floor plan



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PHILIPS

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1 Carpark

1.2 Summary, Carpark

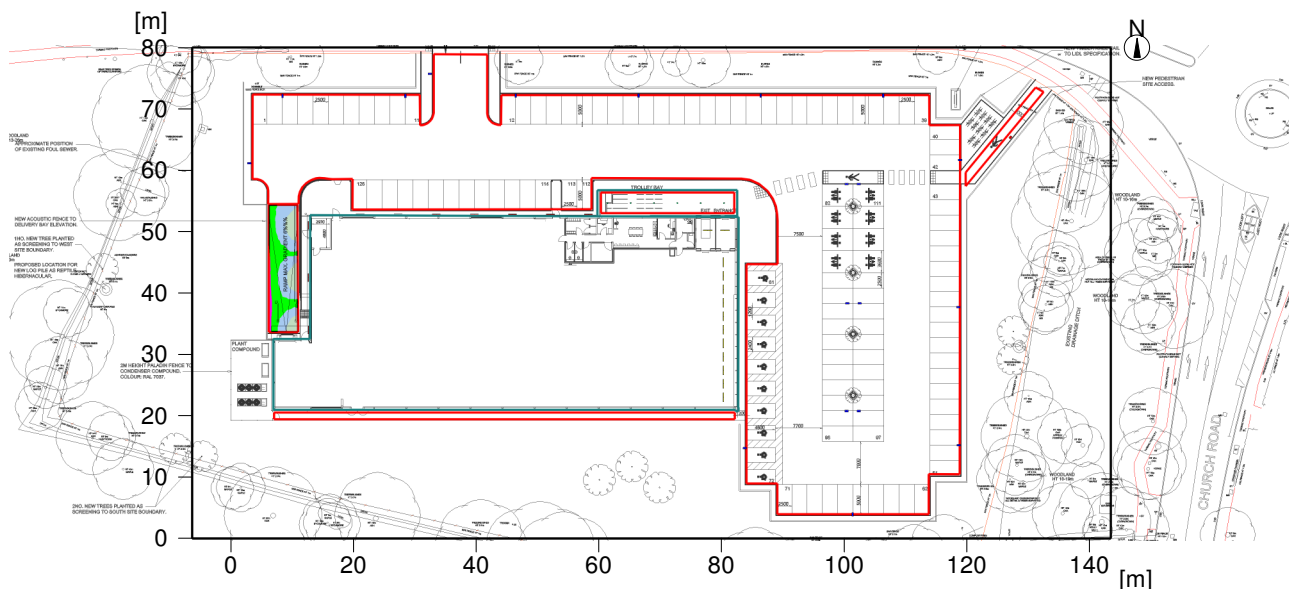
1.2.1 Result overview, Carpark

3	6	Order No.	: !Luminaire Ref: LL-CANOPY
		Luminaire name	: BBS490 1xDLED-4000 PG
		Equipment	: 1 x DLED-4000 33.5 W / 2260 lm
4	19	Order No.	: !910770202405
		Luminaire name	: LumiStreet BGP213 LED49-4S/740 I DX10 7024 D9 48/60 6m Col umn
		Equipment	: 1 x LED-HB 940-11500 lm-4S/740 1 W / 4900 lm
6	1	Order No.	: !Lantern Ref: LL-B42
		Luminaire name	: BGP303 LED49-3/740PSR I DWL 42/LIDL7024 (5m MH COL)
		Equipment	: 1 x LED49-3S/740 43 W / 5000 lm

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1.2 Summary, Carpark

1.2.2 Result overview, Lorry Bay



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
Maintenance factor	0.77

Total luminous flux of all lamps	181860 lm
Total power	1254 W
Total power per area (11976.64 m ²)	0.10 W/m ²
Upward light ratio (ULR)	0.02

Illuminance

Average illuminance	Eav	20.7 lx
Minimum illuminance	Emin	8.2 lx
Maximum illuminance	Emax	55.4 lx
Uniformity U ₀	Emin/Em	1:2.53 (0.4)
Diversity U _d	Emin/Emax	1:6.76 (0.15)

Type No. \ Make

Philips Lighting			
1	22	Order No.	: !Luminaire Ref: LL-E
		Luminaire name	: WT460C L1300 1xLED23S/840 WB
		Equipment	: 1 x LED23S/840/- 22 W / 2600 lm
2	13	Order No.	: !
		Luminaire name	: TMS122 1xTL5-35W HFP
		Equipment	: 1 x TL5-35W/840 39 W / 1000 lm

The ULR value has been calculated without obstruction by other objects.

Object : Carpark
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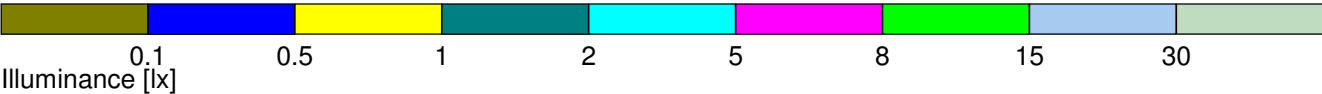
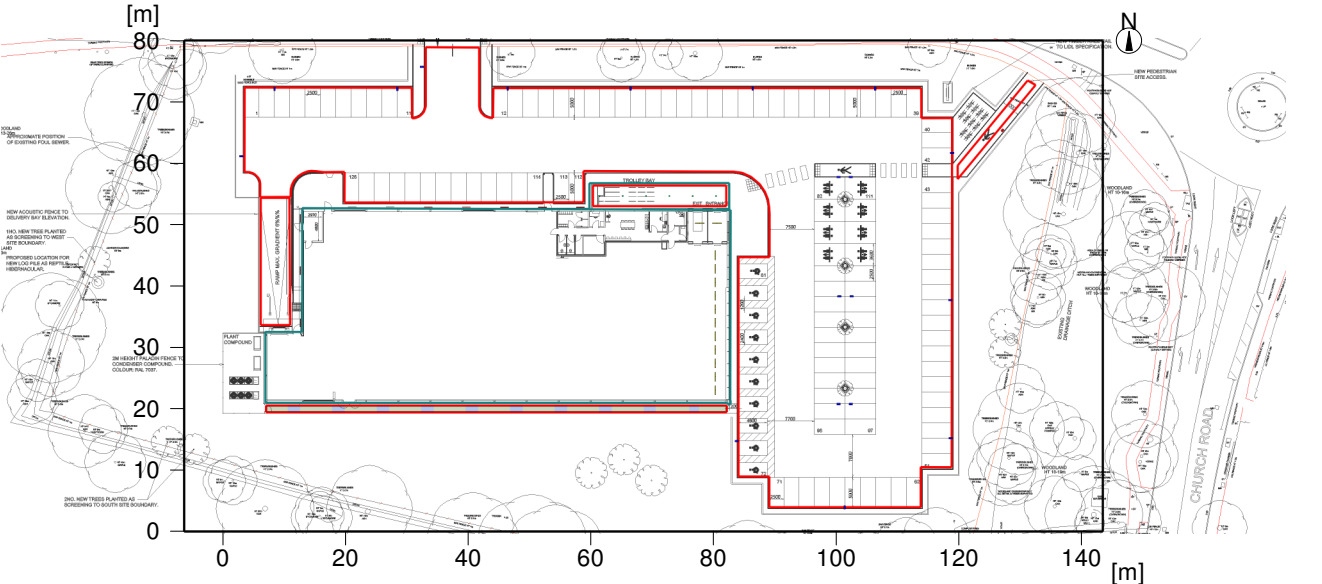
1.2 Summary, Carpark

1.2.2 Result overview, Lorry Bay

3	6	Order No.	: !Luminaire Ref: LL-CANOPY
		Luminaire name	: BBS490 1xDLED-4000 PG
		Equipment	: 1 x DLED-4000 33.5 W / 2260 lm
4	19	Order No.	: !910770202405
		Luminaire name	: LumiStreet BGP213 LED49-4S/740 I DX10 7024 D9 48/60 6m Col umn
		Equipment	: 1 x LED-HB 940-11500 lm-4S/740 1 W / 4900 lm
6	1	Order No.	: !Lantern Ref: LL-B42
		Luminaire name	: BGP303 LED49-3/740PSR I DWL 42/LIDL7024 (5m MH COL)
		Equipment	: 1 x LED49-3S/740 43 W / 5000 lm

1.2 Summary, Carpark

1.2.3 Result overview, Service Footpath



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
Maintenance factor	0.77

Total luminous flux of all lamps	181860 lm
Total power	1254 W
Total power per area (11976.64 m²)	0.10 W/m²
Upward light ratio (ULR)	0.02

Illuminance

Average illuminance	Eav	59 lx
Minimum illuminance	Emin	17 lx
Maximum illuminance	Emax	114 lx
Uniformity Uo	Emin/Em	1:3.52 (0.28)
Diversity Ud	Emin/Emax	1:6.88 (0.15)

Type No. \ Make

Philips Lighting			
1	22	Order No.	: !Luminaire Ref: LL-E
		Luminaire name	: WT460C L1300 1xLED23S/840 WB
		Equipment	: 1 x LED23S/840/- 22 W / 2600 lm
2	13	Order No.	: !
		Luminaire name	: TMS122 1xTL5-35W HFP
		Equipment	: 1 x TL5-35W/840 39 W / 1000 lm

The ULR value has been calculated without obstruction by other objects.

Object : Carpark
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1.2 Summary, Carpark

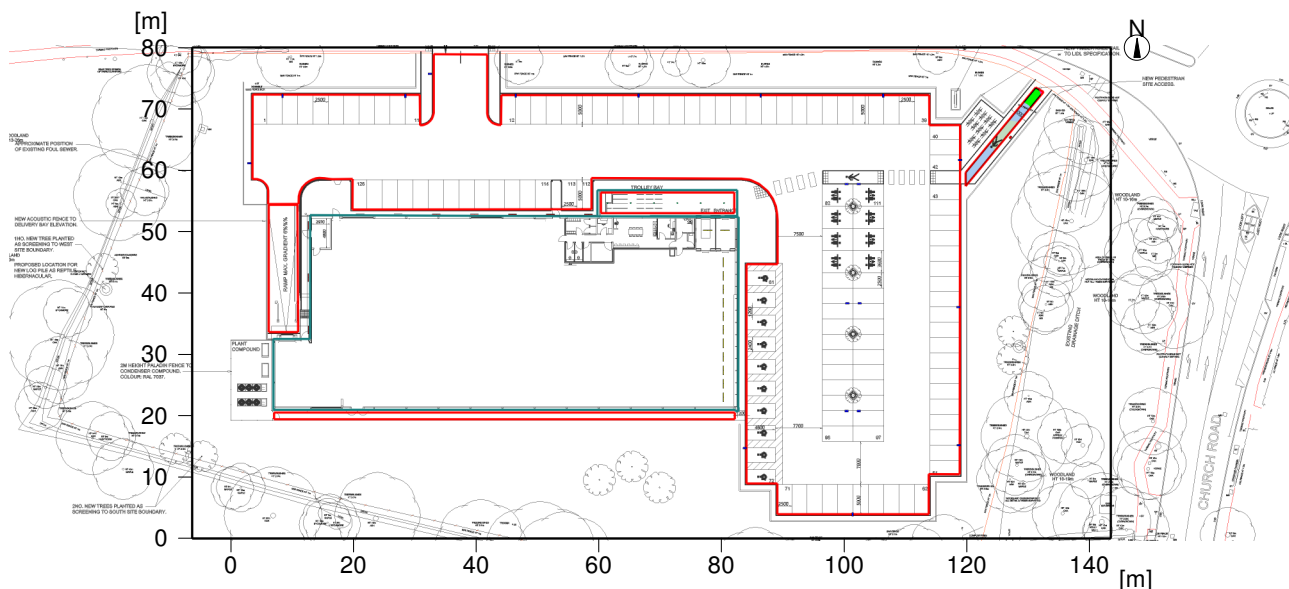
1.2.3 Result overview, Service Footpath

3	6	Order No.	: !Luminaire Ref: LL-CANOPY
		Luminaire name	: BBS490 1xDLED-4000 PG
		Equipment	: 1 x DLED-4000 33.5 W / 2260 lm
4	19	Order No.	: !910770202405
		Luminaire name	: LumiStreet BGP213 LED49-4S/740 I DX10 7024 D9 48/60 6m Col umn
		Equipment	: 1 x LED-HB 940-11500 lm-4S/740 1 W / 4900 lm
6	1	Order No.	: !Lantern Ref: LL-B42
		Luminaire name	: BGP303 LED49-3/740PSR I DWL 42/LIDL7024 (5m MH COL)
		Equipment	: 1 x LED49-3S/740 43 W / 5000 lm

Object : Carpark
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1.2 Summary, Carpark

1.2.4 Result overview, Footpath



General

Calculation algorithm used
 Height of evaluation surface
 Maintenance factor

Average indirect fraction
 0.00 m
 0.77

Total luminous flux of all lamps
 Total power
 Total power per area (11976.64 m²)
 Upward light ratio (ULR)

181860 lm
 1254 W
 0.10 W/m²
 0.02

Illuminance

Average illuminance
 Minimum illuminance
 Maximum illuminance
 Uniformity U₀
 Diversity U_d

E_{av}
 E_{min}
 E_{max}
 E_{min}/E_m
 E_{min}/E_{max}

24.8 lx
 8.4 lx
 40.1 lx
 1:2.97 (0.34)
 1:4.79 (0.21)

Type No. Make

Philips Lighting

1 22 Order No. : !Luminaire Ref: LL-E
 Luminaire name : WT460C L1300 1xLED23S/840 WB
 Equipment : 1 x LED23S/840/- 22 W / 2600 lm

2 13 Order No. : !
 Luminaire name : TMS122 1xTL5-35W HFP
 Equipment : 1 x TL5-35W/840 39 W / 1000 lm

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1.2 Summary, Carpark

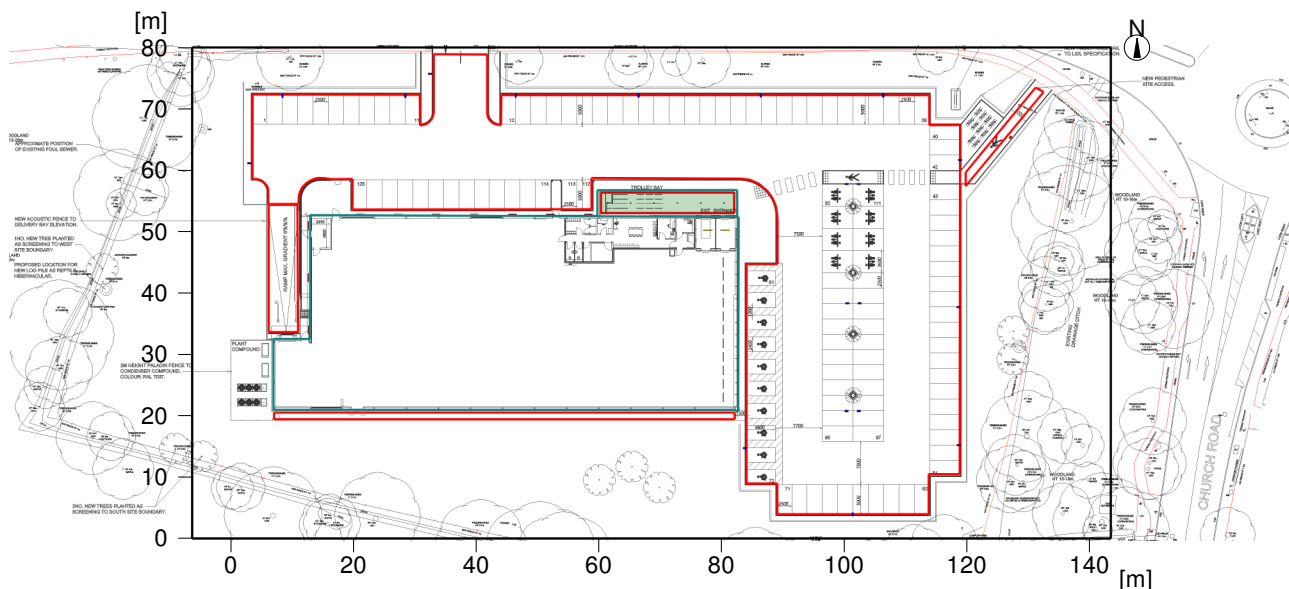
1.2.4 Result overview, Footpath

3	6	Order No.	: !Luminaire Ref: LL-CANOPY
		Luminaire name	: BBS490 1xDLED-4000 PG
		Equipment	: 1 x DLED-4000 33.5 W / 2260 lm
4	19	Order No.	: !910770202405
		Luminaire name	: LumiStreet BGP213 LED49-4S/740 I DX10 7024 D9 48/60 6m Col umn
		Equipment	: 1 x LED-HB 940-11500 lm-4S/740 1 W / 4900 lm
6	1	Order No.	: !Lantern Ref: LL-B42
		Luminaire name	: BGP303 LED49-3/740PSR I DWL 42/LIDL7024 (5m MH COL)
		Equipment	: 1 x LED49-3S/740 43 W / 5000 lm

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1.2 Summary, Carpark

1.2.5 Result overview, Canopy



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
Maintenance factor	0.77

Total luminous flux of all lamps	181860 lm
Total power	1254 W
Total power per area (11976.64 m²)	0.10 W/m²
Upward light ratio (ULR)	0.02

Illuminance

Average illuminance	Eav	93 lx
Minimum illuminance	Emin	74 lx
Maximum illuminance	Emax	113 lx
Uniformity Uo	Emin/Em	1:1.25 (0.8)
Diversity Ud	Emin/Emax	1:1.52 (0.66)

Type No. \ Make

Philips Lighting			
1	22	Order No.	: !Luminaire Ref: LL-E
		Luminaire name	: WT460C L1300 1xLED23S/840 WB
		Equipment	: 1 x LED23S/840/- 22 W / 2600 lm
2	13	Order No.	: !
		Luminaire name	: TMS122 1xTL5-35W HFP
		Equipment	: 1 x TL5-35W/840 39 W / 1000 lm

The ULR value has been calculated without obstruction by other objects.

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1.2 Summary, Carpark

1.2.5 Result overview, Canopy

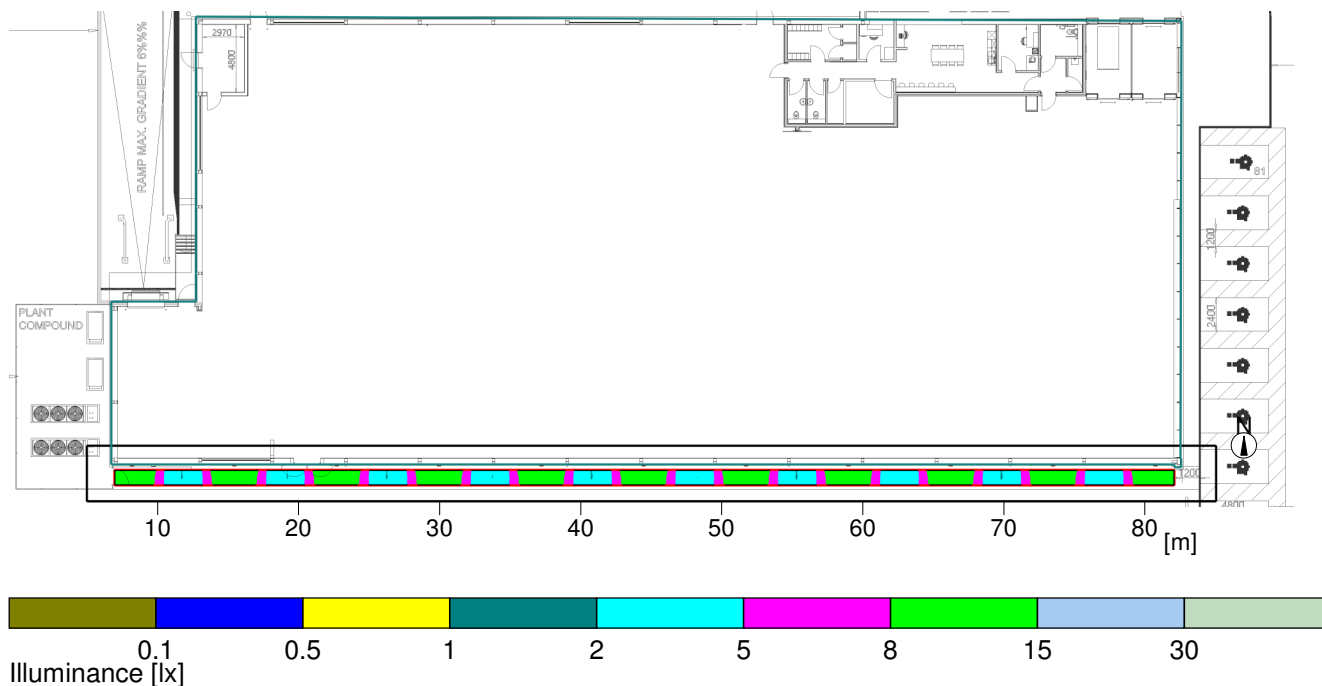
3	6	Order No.	: !Luminaire Ref: LL-CANOPY
		Luminaire name	: BBS490 1xDLED-4000 PG
		Equipment	: 1 x DLED-4000 33.5 W / 2260 lm
4	19	Order No.	: !910770202405
		Luminaire name	: LumiStreet BGP213 LED49-4S/740 I DX10 7024 D9 48/60 6m Col umn
		Equipment	: 1 x LED-HB 940-11500 lm-4S/740 1 W / 4900 lm
6	1	Order No.	: !Lantern Ref: LL-B42
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		Equipment	: 1 x LED49-3S/740 43 W / 5000 lm

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2 BoH Eme Ltg

2.1 Summary, BoH Eme Ltg

2.1.1 Result overview, BoH Footpath



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
photometric centre height. [m]:	2.65 m
Maintenance factor	0.77

Total luminous flux of all lamps	3960 lm
Total power	33 W
Total power per area (315.12 m²)	0.10 W/m²
Upward light ratio (ULR)	0.00

Illuminance

Average illuminance	Eav	7.6 lx
Minimum illuminance	Emin	1.9 lx
Maximum illuminance	Emax	14.4 lx
Uniformity Uo	Emin/Em	1:3.9 (0.26)
Diversity Ud	Emin/Emax	1:7.44 (0.13)

Type No.\Make

5	11	Philips Lighting
		Order No. :
		Luminaire name : WT460C EL3 L1300 EM 1xLED23S/840 WB
		Equipment : 1 x LED23S/840/- 3 W / 360 lm

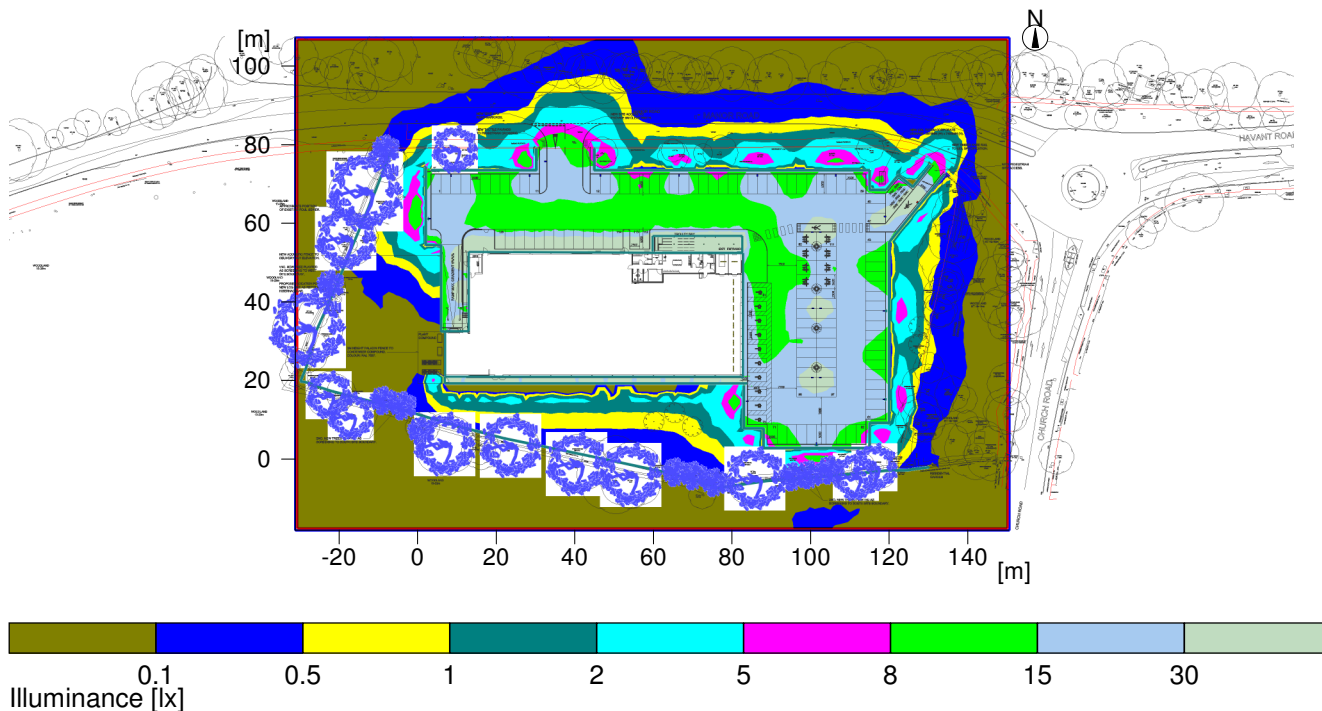
The ULR value has been calculated without obstruction by other objects.

Object : Carpark
 Installation : LiDL Hayling Island
 Project number : D-199007/ 0244075686
 Date : 09.06.2017

3 Carpark Horizontal Spill Light

3.1 Summary, Carpark Horizontal Spill Light

3.1.1 Result overview, Evaluation area 1



General

Calculation algorithm used
 Maintenance factor

Average indirect fraction
 1.00

Total luminous flux of all lamps
 Total power
 Total power per area (22764.98 m²)

181860 lm
 1254.0 W
 0.06 W/m² (0.74 W/m²/100lx)

Evaluation area 1

Reference plane 1.1

Horizontal
 Em 7.47 lx
 Emin 0 lx
 Emin/Eav (Uo) ---
 Emin/Emax (Ud) ---
 Upward light ratio (ULR) 0.02
 Position 0.00 m

Type No. \ Make

Philips Lighting
 1 22 Order No. : !Luminaire Ref: LL-E
 Luminaire name : WT460C L1300 1xLED23S/840 WB
 Equipment : 1 x LED23S/840/- 22 W / 2600 lm

Object : Carpark
 Installation : LiDL Hayling Island
 Project number : D-199007/ 0244075686
 Date : 09.06.2017

3 Carpark Horizontal Spill Light

3.1 Summary, Carpark Horizontal Spill Light

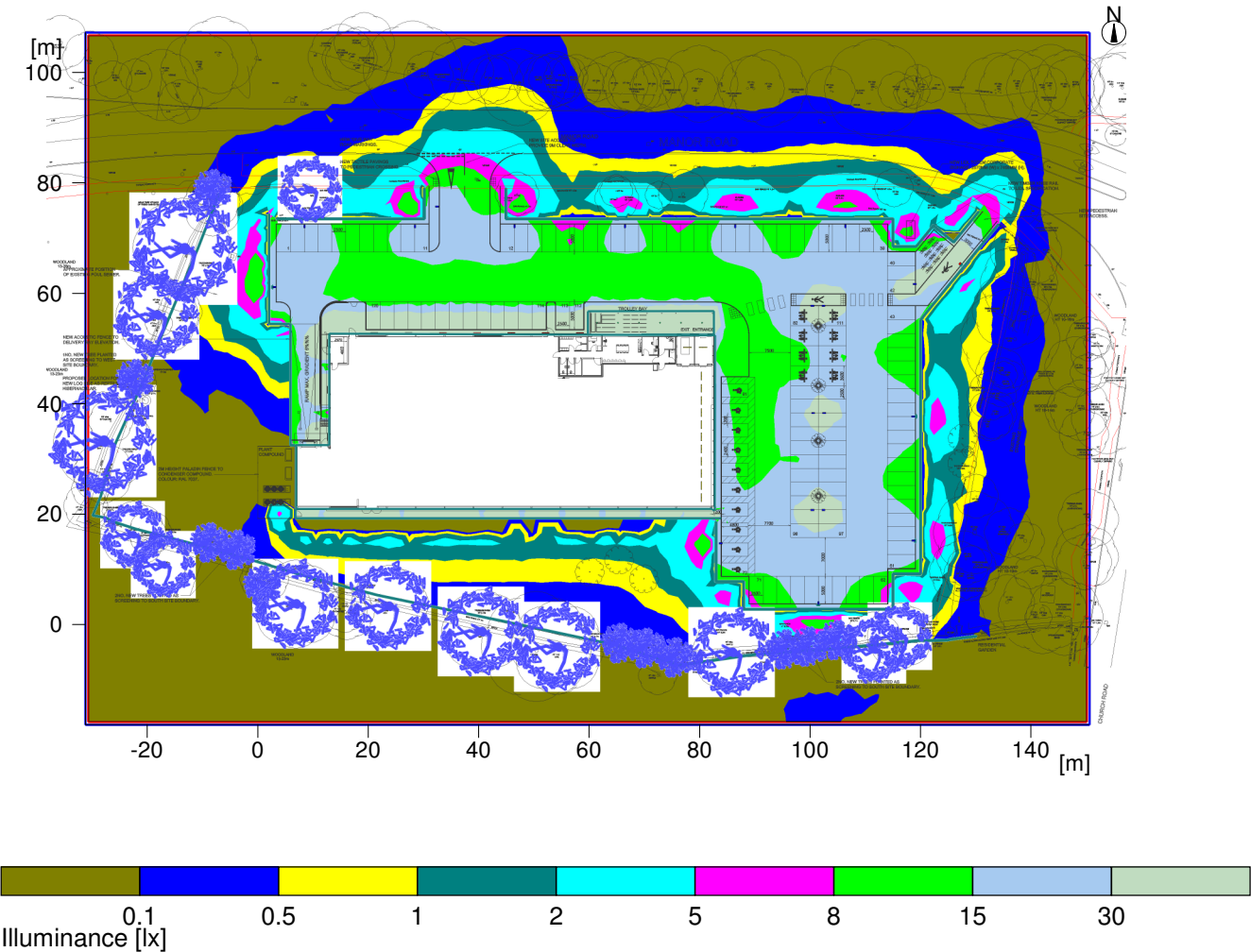
3.1.1 Result overview, Evaluation area 1

2	13	Order No.	: !
		Luminaire name	: TMS122 1xTL5-35W HFP
		Equipment	: 1 x TL5-35W/840 39 W / 1000 lm
3	6	Order No.	: !Luminaire Ref: LL-CANOPY
		Luminaire name	: BBS490 1xDLED-4000 PG
		Equipment	: 1 x DLED-4000 33.5 W / 2260 lm
4	19	Order No.	: !910770202405
		Luminaire name	: LumiStreet BGP213 LED49-4S/740 I DX10 7024 D9 48/60 6m Col umn
		Equipment	: 1 x LED-HB 940-11500 lm-4S/740 1 W / 4900 lm
6	1	Order No.	: !Lantern Ref: LL-B42
		Luminaire name	: BGP303 LED49-3/740PSR I DWL 42/LIDL7024 (5m MH COL)
		Equipment	: 1 x LED49-3S/740 43 W / 5000 lm

3 Carpark Horizontal Spill Light

3.2 Calculation results, Carpark Horizontal Spill Light

3.2.1 Pseudo colours, Reference plane 1.1 (E)



Height of the reference plane

Average illuminance
Minimum illuminance
Maximum illuminance
Uniformity U_0
Diversity U_d

: 0.00 m
Eav : 7 lx
Emin : 0 lx
Emax : 150 lx
Emin/Eav : ---
Emin/Emax : ---

Object : Carpark
Installation : LiDL Hayling Island
Project number : D-199007/ 0244075686
Date : 09.06.2017

3.2 Calculation results, Carpark Horizontal Spill Light

3.2.2 3D pseudo colours, View 1 (E)

