

Lidl Havant

Installation :

Project number : 0400478098/D372850/D-377363

Customer :

Processed by :

Date : 25.10.2020

Project description:

For Designer Assumptions and Signify Terms and Conditions please see "D372850_Lidl Havant Drawing PDF"

External Lighting - Lit to BS5489-1:2013 Table 5 Outdoor Car Park

The following values are based on precise calculations performed on calibrated lamps and luminaires, and their configurations, whereby gradual, unavoidable deviations can occur in practice. All guarantee claims are excluded for the specified data.

This exclusion of liability applies irrespective of the legal grounds for both damages and consequential damages suffered by users and third parties.

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Object : Lidl Havant
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2 Carpark

2.1 Description, Carpark

2.1.1 Luminaire data/Room elements

Product data:

Type No.\Make

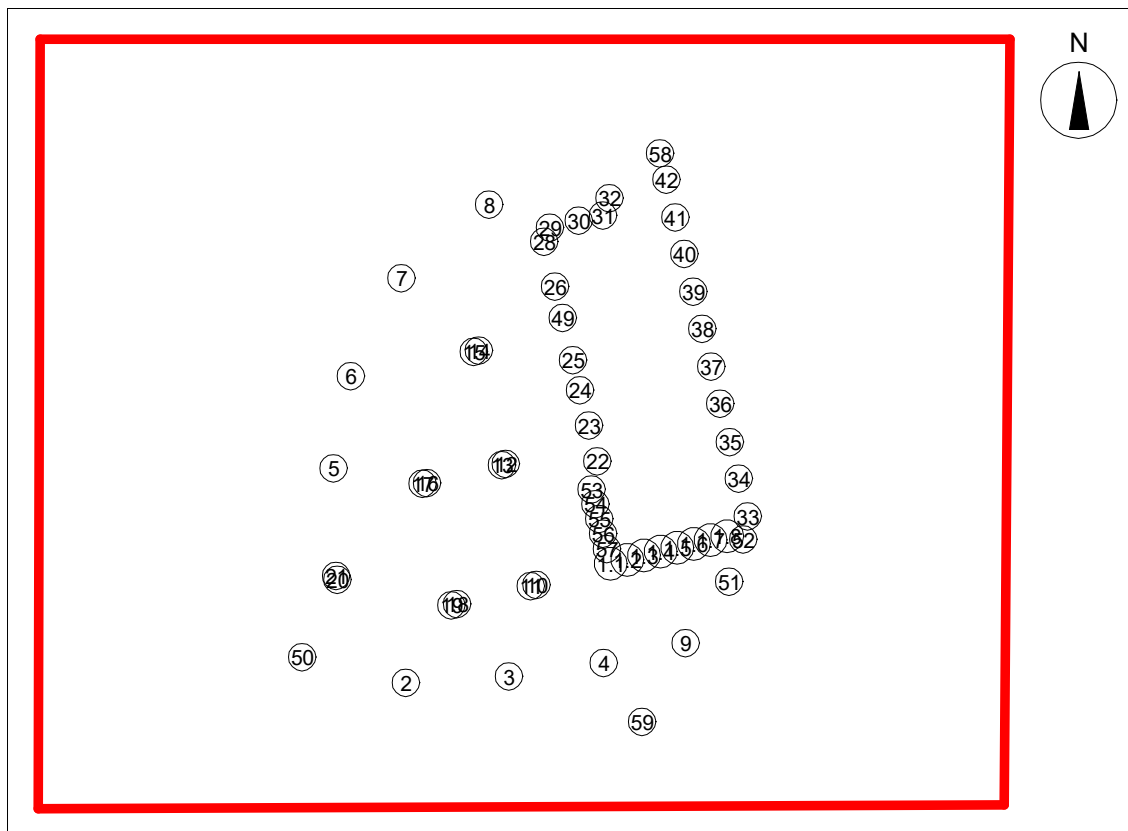
		LL-E	
1	23	Order No.	: LL-E.Idt
		Luminaire name	: LL-E
		Equipment	: 1 x LL-E 17.4 W / 2300 lm
		LL-Canopy	
2	13	Order No.	: LL-CANOPY.Idt
		Luminaire name	: LL-Canopy
		Equipment	: 1 x LL-Canopy 17.8 W / 2100 lm
		PHILIPS/2019-07-08 Eulumdat/1 B-Tilt = 0.00	
3	16	Order No.	: !BGP292 T25 LED49-4S 740 DX10.Idt
		Luminaire name	: LL-A BGP292 T25 DX10 /740 (Lantern Ref: LL-A 4900lm)
		Equipment	: 1 x LED49-4S/740 31 W / 4900 lm
4	6	Order No.	: !BGP292 T25 LED75-4S 740 DX10.Idt
		Luminaire name	: LL-C BGP292 T25 DX10 /740 (Lantern Ref: LL-C 7500lm)
		Equipment	: 1 x LED75-4S/740 46.5 W / 7600 lm
		Philips Lighting	
5	1	Order No.	:
		Luminaire name	: BGP291 T25 1 xLED20-4S/740 DW50
		Equipment	: 1 x LED20-4S/740 13 W / 2000 lm

2 Carpark

2.1 Description, Carpark

2.1.1 Luminaire data/Room elements

Floor with luminaire and sensor positions:



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2 Carpark

2.1 Description, Carpark

2.1.1 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]
LL-E LL-E LL-E.Idt									
22	275.43	241.40	3.05	14.88	0.00	10.00	274.88	241.26	0.00
23	273.65	248.90	3.05	13.70	0.00	10.00	273.10	248.76	0.00
24	271.86	256.19	3.05	14.37	0.00	10.00	271.31	256.05	0.00
25	270.37	262.47	3.05	13.83	0.00	10.00	269.82	262.33	0.00
26	266.64	277.80	3.05	12.17	0.00	10.00	266.08	277.68	0.00
28	264.34	287.13	3.05	11.71	0.00	10.00	263.79	287.01	0.00
29	265.48	290.00	3.06	283.26	0.00	25.00	265.36	290.54	0.00
30	271.49	291.45	3.06	283.03	0.00	25.00	271.13	293.02	0.00
31	276.60	292.64	3.06	284.97	0.00	25.00	276.21	294.08	0.00
32	277.94	296.15	3.05	12.61	0.00	5.00	277.39	296.02	0.00
33	306.68	230.04	3.05	193.94	0.00	5.00	306.95	230.11	0.00
34	304.80	237.79	3.05	194.61	0.00	5.00	305.08	237.86	0.00
35	302.92	245.47	3.05	194.35	0.00	5.00	303.19	245.54	0.00
36	301.04	253.39	3.05	194.17	0.00	5.00	301.31	253.45	0.00
37	299.18	261.12	3.05	193.43	0.00	5.00	299.45	261.18	0.00
38	297.25	268.98	3.05	193.56	0.00	5.00	297.52	269.04	0.00
39	295.39	276.78	3.05	195.67	0.00	5.00	295.66	276.86	0.00
40	293.51	284.61	3.05	194.26	0.00	5.00	293.78	284.68	0.00
41	291.63	292.21	3.05	194.45	0.00	5.00	291.90	292.28	0.00
42	289.76	300.02	3.05	192.92	0.00	5.00	290.03	300.09	0.00
49	268.21	271.32	3.05	12.17	0.00	10.00	267.65	271.20	0.00
52	305.80	225.12	3.05	102.75	0.00	5.00	305.80	225.12	0.00
58	288.47	305.51	1.95	192.92	0.00	5.00	288.74	305.57	0.00

LL-Canopy LL-Canopy LL-CANOPY.Idt

53	274.20	235.63	3.20	0.00	0.00	0.00	274.20	235.63	0.00
54	275.00	232.53	3.20	0.00	0.00	0.00	275.00	232.53	0.00
55	275.80	229.43	3.20	0.00	0.00	0.00	275.80	229.43	0.00
56	276.60	226.33	3.20	0.00	0.00	0.00	276.60	226.33	0.00
57	277.40	223.23	3.20	0.00	0.00	0.00	277.40	223.23	0.00
1.1	278.24	220.16	3.20	0.00	0.00	0.00	278.24	220.16	0.00
1.2	281.70	220.98	3.20	0.00	0.00	0.00	281.70	220.98	0.00
1.3	285.15	221.79	3.20	0.00	0.00	0.00	285.15	221.79	0.00
1.4	288.60	222.61	3.20	0.00	0.00	0.00	288.60	222.61	0.00
1.5	292.05	223.42	3.20	0.00	0.00	0.00	292.05	223.42	0.00
1.6	295.50	224.24	3.20	0.00	0.00	0.00	295.50	224.24	0.00
1.7	298.96	225.05	3.20	0.00	0.00	0.00	298.96	225.05	0.00
1.8	302.41	225.87	3.20	0.00	0.00	0.00	302.41	225.87	0.00

PHILIPS/2019-07-08 Eulumdat/1 B-Tilt = 0.00 LL-A BGP292 T25 DX10 /740 (Lantern Ref: LL-A 4900lm) !BGP292 T25 LED49-4S 740 DX10.Idt

2	235.53	195.29	5.95	4.14	5.00	0.00	234.47	209.99	0.00
3	257.01	196.74	5.95	3.31	5.00	0.00	256.16	211.45	0.00
4	276.73	199.45	5.95	13.86	4.86	-1.20	273.37	213.69	0.00
5	220.56	239.93	5.95	284.76	5.00	0.00	234.81	243.69	0.00
6	224.13	259.13	5.95	255.16	5.00	0.00	238.37	255.35	0.00
7	234.71	279.47	5.95	237.94	5.00	0.00	247.20	271.65	0.00
8	252.96	294.80	5.95	194.71	5.00	0.00	256.70	280.55	0.00
9	293.73	203.65	5.95	14.69	5.00	0.00	289.99	217.90	0.00
16	240.00	236.92	5.95	284.01	5.00	0.00	254.29	240.49	0.00
17	239.09	236.71	5.95	103.50	5.00	0.00	224.77	233.27	0.00
18	246.21	211.79	5.95	283.52	5.00	0.00	260.54	215.23	0.00

Signify

Object : Lidl Havant
 Installation :
 Project number : 0400478098/D372850/D-377363
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2 Carpark

2.1 Description, Carpark

2.1.1 Luminaire data/Room elements

19	245.02	211.41	5.95	102.90	5.00	0.00	230.66	208.12	0.00
20	221.30	216.84	5.95	194.52	5.00	0.00	224.99	202.58	0.00
21	221.09	217.56	5.95	12.30	5.00	0.00	217.95	231.95	0.00
50	213.96	200.64	5.95	284.76	5.00	0.00	228.21	204.40	0.00
51	302.90	216.40	5.95	102.84	5.00	0.00	291.51	213.81	0.00

PHILIPS/2019-07-08 Eulumdat/1 B-Tilt = 0.00 LL-C BGP292 T25 DX10 /740 (Lantern Ref: LL-C 7500lm) !BGP292 T25 LED75-4S 740 DX10.ltd

10	262.74	215.73	5.95	285.24	5.00	0.00	276.95	219.60	0.00
11	261.52	215.45	5.95	104.67	5.00	0.00	247.27	211.72	0.00
12	256.36	240.86	5.95	284.07	5.00	0.00	270.65	244.45	0.00
13	255.57	240.63	5.95	103.12	5.00	0.00	241.22	237.29	0.00
14	250.83	264.50	5.95	284.61	5.00	0.00	265.09	268.22	0.00
15	249.74	264.20	5.95	103.84	5.00	0.00	235.43	260.68	0.00

Philips Lighting BGP291 T25 1 xLED20-4S/740 DW50

59	284.69	187.22	4.74	103.73	0.00	0.00	279.87	186.04	0.00
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Structural elements

Measuring surface

No.	xm[m]	ym[m]	zm[m]	Length	Width	z axis	Rotation angle	
							L axis	Q axis
Lorry Bay								
M 2	256.02	294.51	0.00	21.73	10.84	13.23	0.00	0.00
BOH Exterior Escape Footpath								
M 3	307.64	226.94	0.00	21.26	82.16	283.57	0.00	0.00
Canopy								
M 4	272.15	236.46	0.00	31.23	24.47	13.44	0.00	0.00
Carpark								
M 5	216.61	215.00	0.00	87.73	98.84	0.00	0.00	0.00
Pedestrian Walway								
M 6	278.79	203.93	0.00	9.91	30.83	14.75	0.00	0.00

Others

No.	xm[m]	ym[m]	zm[m]	Length	Width	z axis	Rotation angle		rho[%]
							L axis	Q axis	
A 1	263.93	289.47	0.00	84.38	92.36	32.87	0.00	0.00	40
Tr 1	271.82	236.89	0.00	4.84	1.75	13.51	0.00	0.00	50
A 2	276.38	238.62	3.25	32.31	25.96	13.23	0.00	0.00	---
Tr 1	307.36	226.72	0.00	25.10	83.07	14.62	0.00	0.00	50

2.1 Description, Carpark

2.1.2 Floor plan

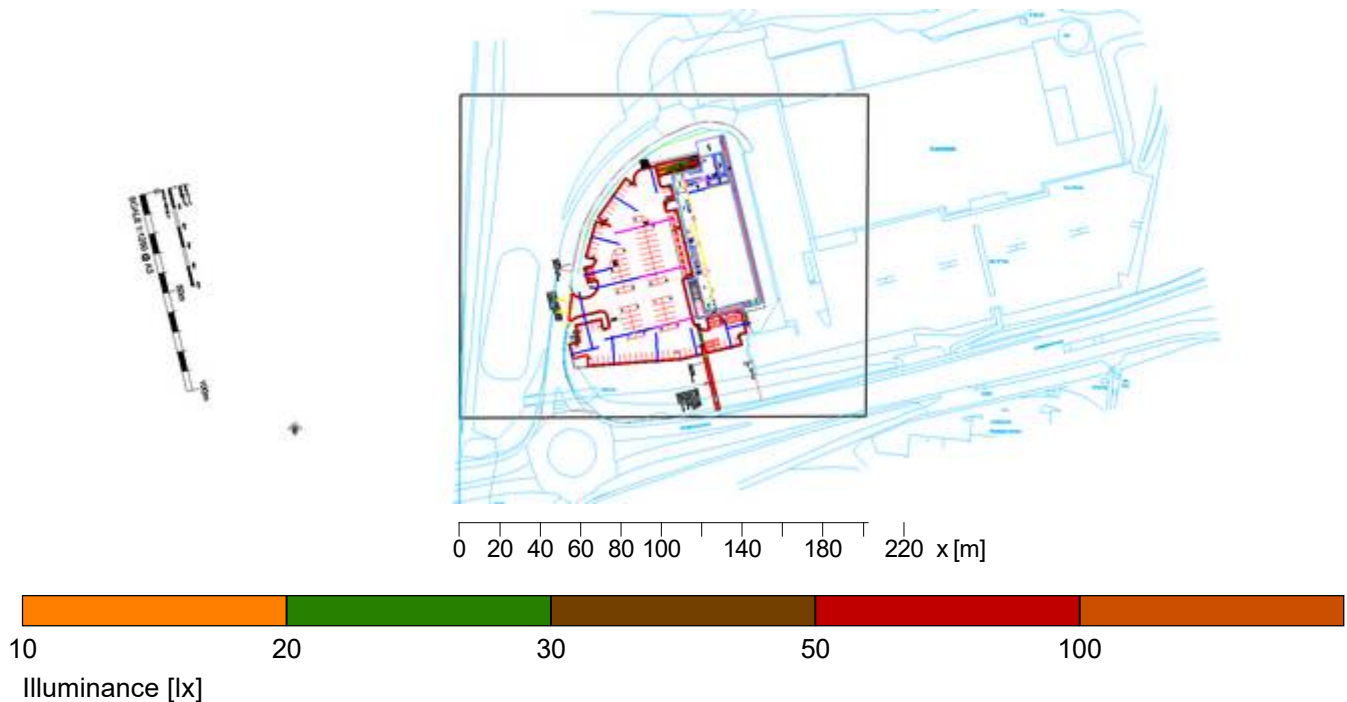


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 Installation :
 Project number : 0400478098/D372850/D-377363
 Date : 25.10.2020

2 Carpark

2.2 Summary, Carpark

2.2.1 Result overview, Lorry Bay



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
Maintenance factor	0.79
Total luminous flux of all lamps	206200 lm
Total power	1419.6 W
Total power per area (32158.99 m ²)	0.04 W/m ²
Upward light ratio (ULR)	0.00

Illuminance

Average illuminance	Em	28 lx
Minimum illuminance	Emin	11 lx
Maximum illuminance	Emax	100 lx
Uniformity Uo	Emin/Em	1:2.66 (0.38)
Diversity Ud	Emin/Emax	1:9.5 (0.11)

Type No. Make

1	23	LL-E	
		Order No.	: LL-E.Idt
		Luminaire name	: LL-E
		Equipment	: 1 x LL-E 17.4 W / 2300 lm

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

Object : Lidl Havant
Installation :
Project number : 0400478098/D372850/D-377363
Date : 25.10.2020

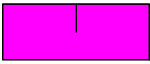
2 Carpark

2.2 Summary, Carpark

2.2.1 Result overview, Lorry Bay

2 13 **LL-Canopy**
 Order No. : LL-CANOPY.Idt
Luminaire name : LL-Canopy
Equipment : 1 x LL-Canopy 17.8 W / 2100 lm

3 16 **PHILIPS/2019-07-08 Eulumdat/1 B-Tilt = 0.00**
 Order No. : !BGP292 T25 LED49-4S 740 DX10.Idt
Luminaire name : LL-A BGP292 T25 DX10 /740 (Lantern Ref: LL-A 4900lm)
Equipment : 1 x LED49-4S/740 31 W / 4900 lm

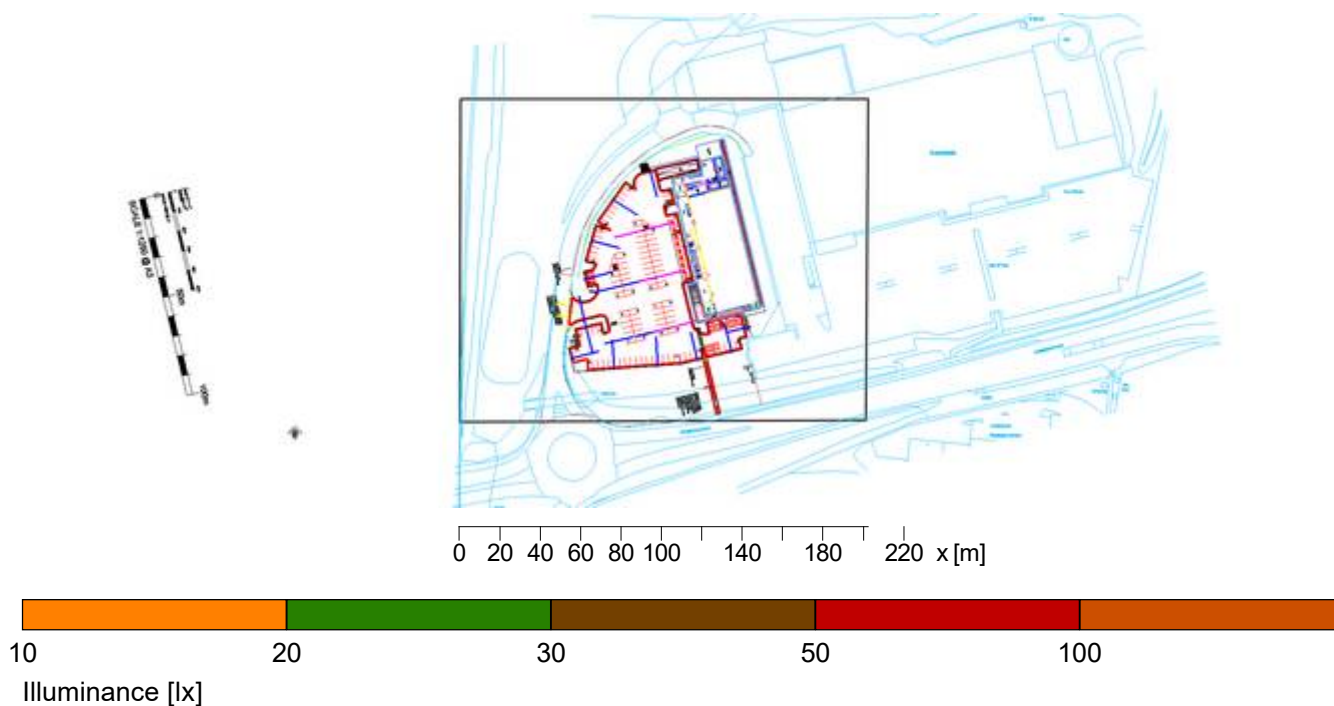
4 6
 Order No. : !BGP292 T25 LED75-4S 740 DX10.Idt
Luminaire name : LL-C BGP292 T25 DX10 /740 (Lantern Ref: LL-C 7500lm)
Equipment : 1 x LED75-4S/740 46.5 W / 7600 lm

5 1 **Philips Lighting**
 Order No. :
Luminaire name : BGP291 T25 1 xLED20-4S/740 DW50
Equipment : 1 x LED20-4S/740 13 W / 2000 lm

Object : Lidl Havant
 Installation :
 Project number : 0400478098/D372850/D-377363
 Date : 25.10.2020

2.2 Summary, Carpark

2.2.2 Result overview, BOH Exterior Escape Footpath



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
Maintenance factor	0.79
Total luminous flux of all lamps	206200 lm
Total power	1419.6 W
Total power per area (32158.99 m ²)	0.04 W/m ²
Upward light ratio (ULR)	0.00

Illuminance

Average illuminance	Em	47 lx
Minimum illuminance	Emin	11 lx
Maximum illuminance	Emax	175 lx
Uniformity Uo	Emin/Em	1:4.31 (0.23)
Diversity Ud	Emin/Emax	1:16.2 (0.06)

Type No. Make

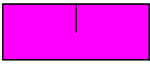
LL-E	
1 23	Order No. : LL-E.Idt
	Luminaire name : LL-E
	Equipment : 1 x LL-E 17.4 W / 2300 lm

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

Object : Lidl Havant
Installation :
Project number : 0400478098/D372850/D-377363
Date : 25.10.2020

2.2 Summary, Carpark

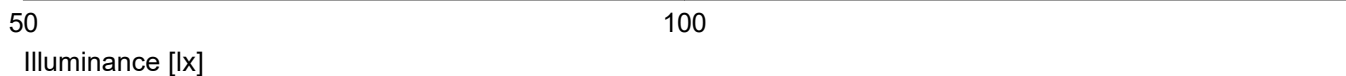
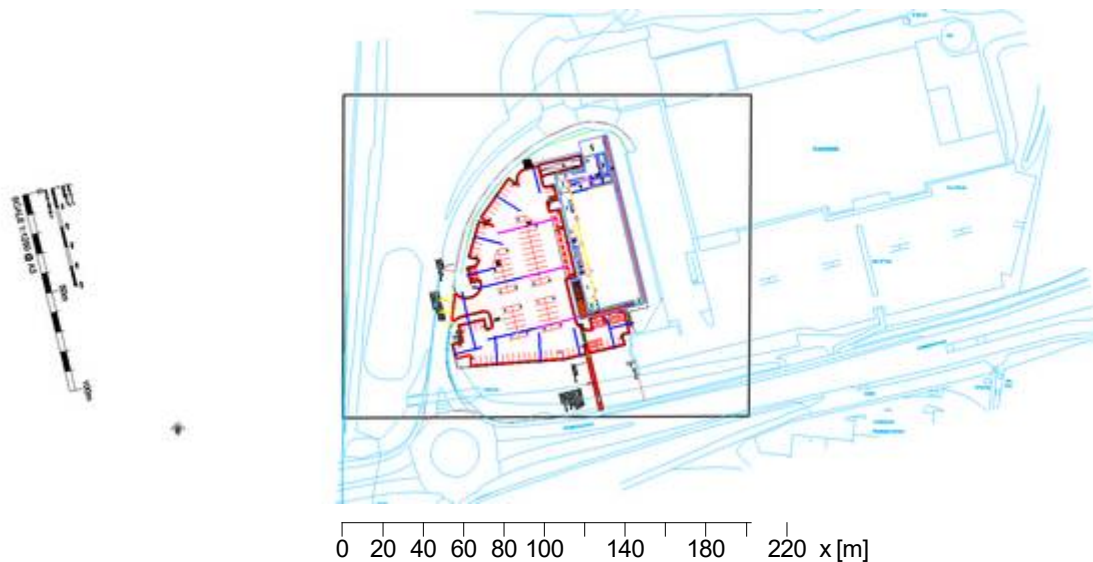
2.2.2 Result overview, BOH Exterior Escape Footpath

		LL-Canopy	
2	13	Order No.	: LL-CANOPY.Idt
		Luminaire name	: LL-Canopy
		Equipment	: 1 x LL-Canopy 17.8 W / 2100 lm
		PHILIPS/2019-07-08 Eulumdat/1 B-Tilt = 0.00	
3	16	Order No.	: !BGP292 T25 LED49-4S 740 DX10.Idt
		Luminaire name	: LL-A BGP292 T25 DX10 /740 (Lantern Ref: LL-A 4900lm)
		Equipment	: 1 x LED49-4S/740 31 W / 4900 lm
4	6	Order No.	: !BGP292 T25 LED75-4S 740 DX10.Idt
		Luminaire name	: LL-C BGP292 T25 DX10 /740 (Lantern Ref: LL-C 7500lm)
		Equipment	: 1 x LED75-4S/740 46.5 W / 7600 lm
		Philips Lighting	
5	1	Order No.	:
		Luminaire name	: BGP291 T25 1 xLED20-4S/740 DW50
		Equipment	: 1 x LED20-4S/740 13 W / 2000 lm

Object : Lidl Havant
 Installation :
 Project number : 0400478098/D372850/D-377363
 Date : 25.10.2020

2.2 Summary, Carpark

2.2.3 Result overview, Canopy



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
Maintenance factor	0.79
Total luminous flux of all lamps	206200 lm
Total power	1419.6 W
Total power per area (32158.99 m ²)	0.04 W/m ²
Upward light ratio (ULR)	0.00

Illuminance

Average illuminance	Em	111 lx
Minimum illuminance	Emin	54 lx
Maximum illuminance	Emax	134 lx
Uniformity Uo	Emin/Em	1:2.05 (0.49)
Diversity Ud	Emin/Emax	1:2.47 (0.41)

Type No. Make

LL-E	
1	23
Order No.	: LL-E.Idt
Luminaire name	: LL-E
Equipment	: 1 x LL-E 17.4 W / 2300 lm

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

Object : Lidl Havant
Installation :
Project number : 0400478098/D372850/D-377363
Date : 25.10.2020

2.2 Summary, Carpark

2.2.3 Result overview, Canopy

LL-Canopy

2 13

Order No. : LL-CANOPY.Idt
Luminaire name : LL-Canopy
Equipment : 1 x LL-Canopy 17.8 W / 2100 lm

PHILIPS/2019-07-08 Eulumdat/1 B-Tilt = 0.00

3 16

Order No. : !BGP292 T25 LED49-4S 740 DX10.Idt
Luminaire name : LL-A BGP292 T25 DX10 /740 (Lantern Ref: LL-A 4900lm)
Equipment : 1 x LED49-4S/740 31 W / 4900 lm

4 6

Order No. : !BGP292 T25 LED75-4S 740 DX10.Idt
Luminaire name : LL-C BGP292 T25 DX10 /740 (Lantern Ref: LL-C 7500lm)
Equipment : 1 x LED75-4S/740 46.5 W / 7600 lm

Philips Lighting

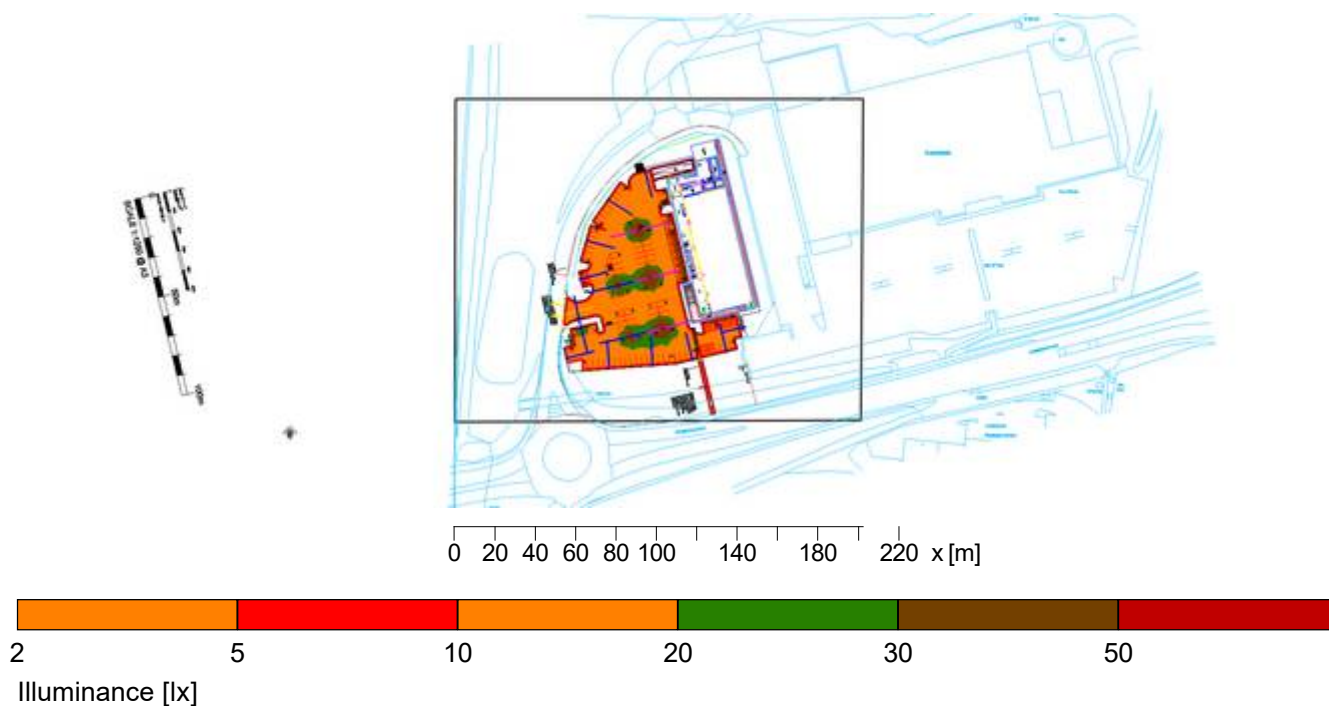
5 1

Order No. :
Luminaire name : BGP291 T25 1 xLED20-4S/740 DW50
Equipment : 1 x LED20-4S/740 13 W / 2000 lm

Object : Lidl Havant
 Installation :
 Project number : 0400478098/D372850/D-377363
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2.2 Summary, Carpark

2.2.4 Result overview, Carpark



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
Maintenance factor	0.79
Total luminous flux of all lamps	206200 lm
Total power	1419.6 W
Total power per area (32158.99 m ²)	0.04 W/m ²
Upward light ratio (ULR)	0.00

Illuminance

Average illuminance	Em	14.9 lx
Minimum illuminance	Emin	4.4 lx
Maximum illuminance	Emax	63.5 lx
Uniformity Uo	Emin/Em	1:3.4 (0.29)
Diversity Ud	Emin/Emax	1:14.4 (0.07)

Type No. Make

1	23	LL-E	
		Order No.	: LL-E.Idt
		Luminaire name	: LL-E
		Equipment	: 1 x LL-E 17.4 W / 2300 lm

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

Object : Lidl Havant
Installation :
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2.2 Summary, Carpark

2.2.4 Result overview, Carpark

2 13
 **LL-Canopy**
Order No. : LL-CANOPY.Idt
Luminaire name : LL-Canopy
Equipment : 1 x LL-Canopy 17.8 W / 2100 lm

3 16
 **PHILIPS/2019-07-08 Eulumdat/1 B-Tilt = 0.00**
Order No. : !BGP292 T25 LED49-4S 740 DX10.Idt
Luminaire name : LL-A BGP292 T25 DX10 /740 (Lantern Ref: LL-A 4900lm)
Equipment : 1 x LED49-4S/740 31 W / 4900 lm

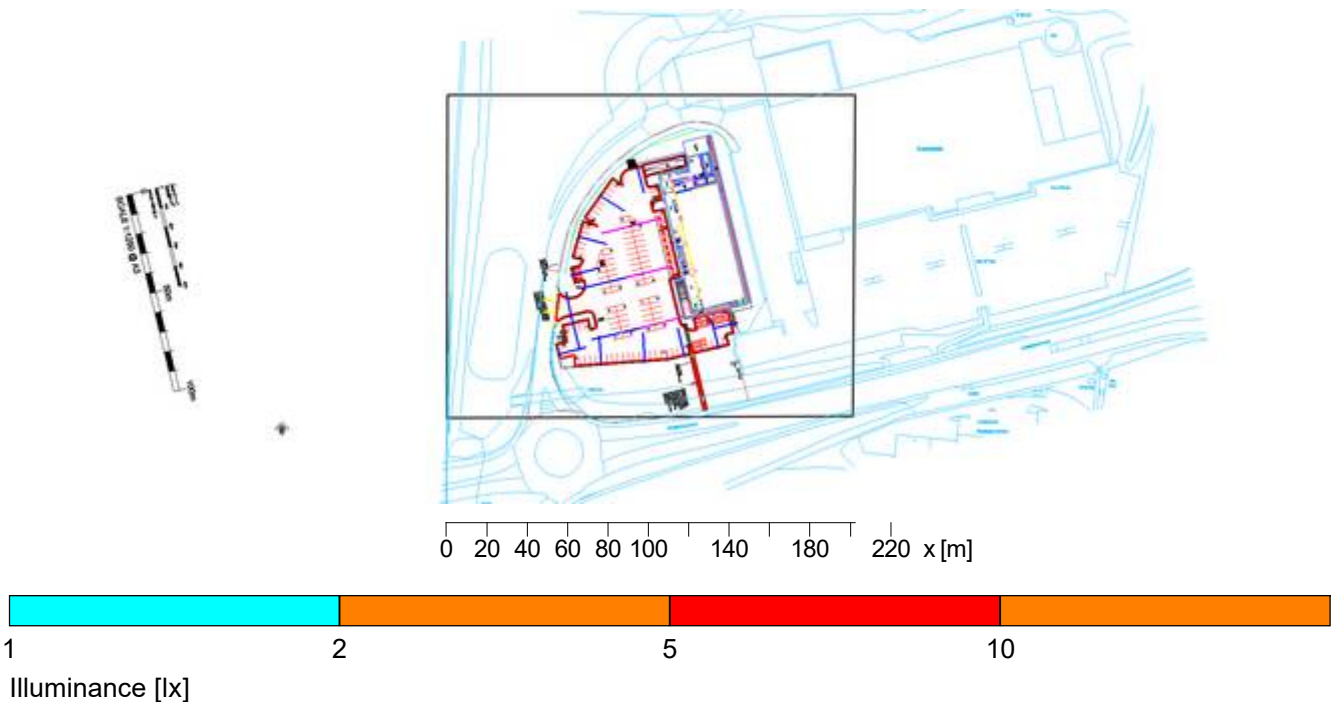
4 6
 Order No. : !BGP292 T25 LED75-4S 740 DX10.Idt
Luminaire name : LL-C BGP292 T25 DX10 /740 (Lantern Ref: LL-C 7500lm)
Equipment : 1 x LED75-4S/740 46.5 W / 7600 lm

5 1
 **Philips Lighting**
Order No. :
Luminaire name : BGP291 T25 1 xLED20-4S/740 DW50
Equipment : 1 x LED20-4S/740 13 W / 2000 lm

Object : Lidl Havant
 Installation :
 Project number : 0400478098/D372850/D-377363
 Date : 25.10.2020

2.2 Summary, Carpark

2.2.5 Result overview, Pedestrian Walway



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
Maintenance factor	0.79
Total luminous flux of all lamps	206200 lm
Total power	1419.6 W
Total power per area (32158.99 m ²)	0.04 W/m ²
Upward light ratio (ULR)	0.00

Illuminance

Average illuminance	Em	6.9 lx
Minimum illuminance	Emin	1.5 lx
Maximum illuminance	Emax	15.1 lx
Uniformity Uo	Emin/Em	1:4.52 (0.22)
Diversity Ud	Emin/Emax	1:9.88 (0.1)

Type No.Make

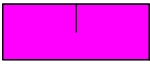
LL-E	
1	23
Order No.	: LL-E.Idt
Luminaire name	: LL-E
Equipment	: 1 x LL-E 17.4 W / 2300 lm

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

Object : Lidl Havant
Installation :
Project number : 0400478098/D372850/D-377363
Date : 25.10.2020

2.2 Summary, Carpark

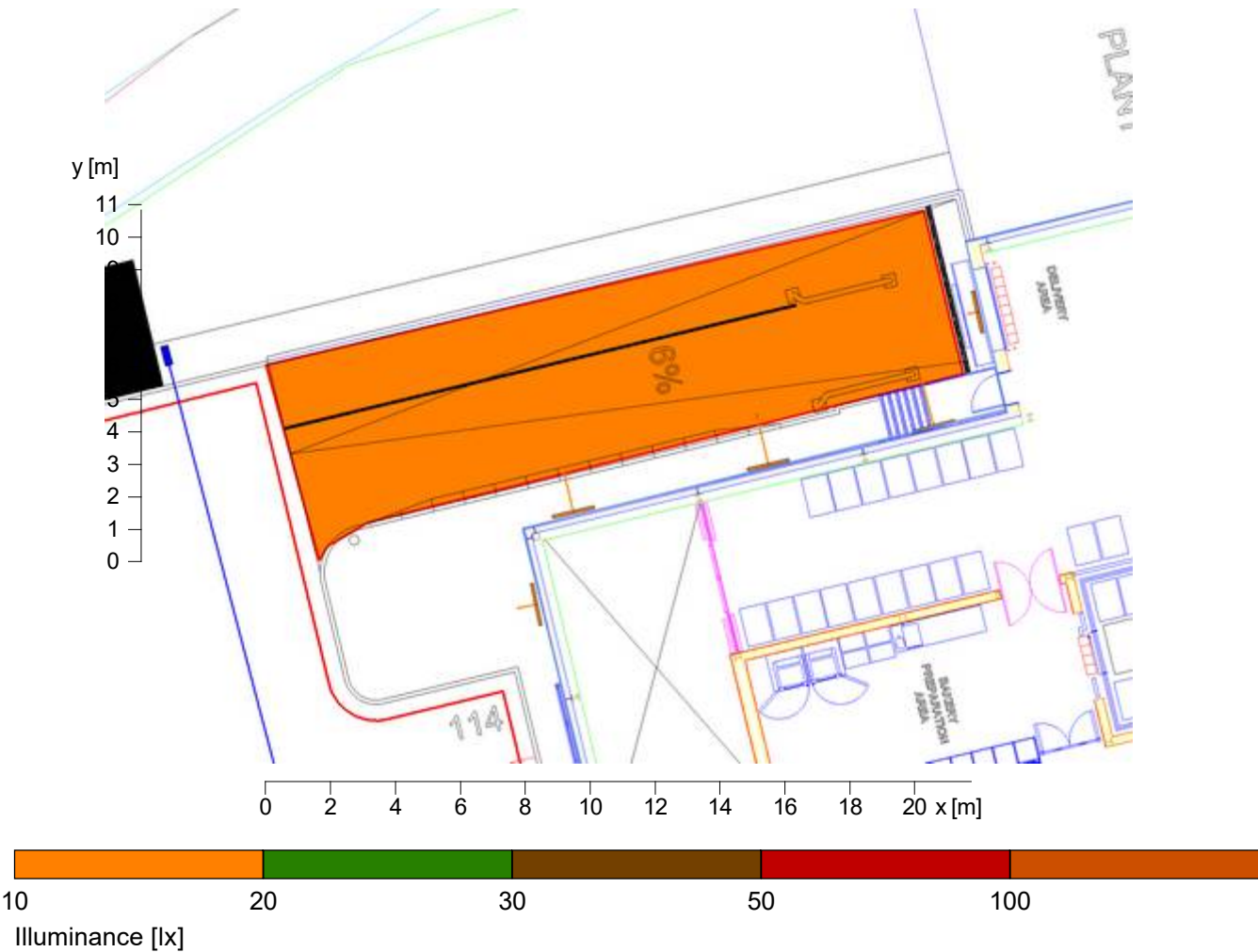
2.2.5 Result overview, Pedestrian Walway

		LL-Canopy	
2	13	Order No.	: LL-CANOPY.Idt
		Luminaire name	: LL-Canopy
		Equipment	: 1 x LL-Canopy 17.8 W / 2100 lm
		PHILIPS/2019-07-08 Eulumdat/1 B-Tilt = 0.00	
3	16	Order No.	: !BGP292 T25 LED49-4S 740 DX10.Idt
		Luminaire name	: LL-A BGP292 T25 DX10 /740 (Lantern Ref: LL-A 4900lm)
		Equipment	: 1 x LED49-4S/740 31 W / 4900 lm
4	6	Order No.	: !BGP292 T25 LED75-4S 740 DX10.Idt
		Luminaire name	: LL-C BGP292 T25 DX10 /740 (Lantern Ref: LL-C 7500lm)
		Equipment	: 1 x LED75-4S/740 46.5 W / 7600 lm
		Philips Lighting	
5	1	Order No.	:
		Luminaire name	: BGP291 T25 1 xLED20-4S/740 DW50
		Equipment	: 1 x LED20-4S/740 13 W / 2000 lm

2 Carpark

2.3 Calculation results, Carpark

2.3.1 Pseudo colours, Lorry Bay (E)



Height reference plane		: 0.00 m
Average illuminance	Em	: 28 lx
Minimum illuminance	Emin	: 11 lx
Maximum illuminance	Emax	: 100 lx
Uniformity Uo	Emin/Em	: 1 : 2.66 (0.38)
Diversity Ud	Emin/Emax	: 1 : 9.50 (0.11)

2.3 Calculation results, Carpark

2.3.2 Pseudo colours, BOH Exterior Escape Footpath (E)



Height reference plane		: 0.00 m
Average illuminance	Em	: 47 lx
Minimum illuminance	Emin	: 11 lx
Maximum illuminance	Emax	: 175 lx
Uniformity Uo	Emin/Em	: 1 : 4.31 (0.23)
Diversity Ud	Emin/Emax	: 1 : 16.18 (0.06)

2.3 Calculation results, Carpark

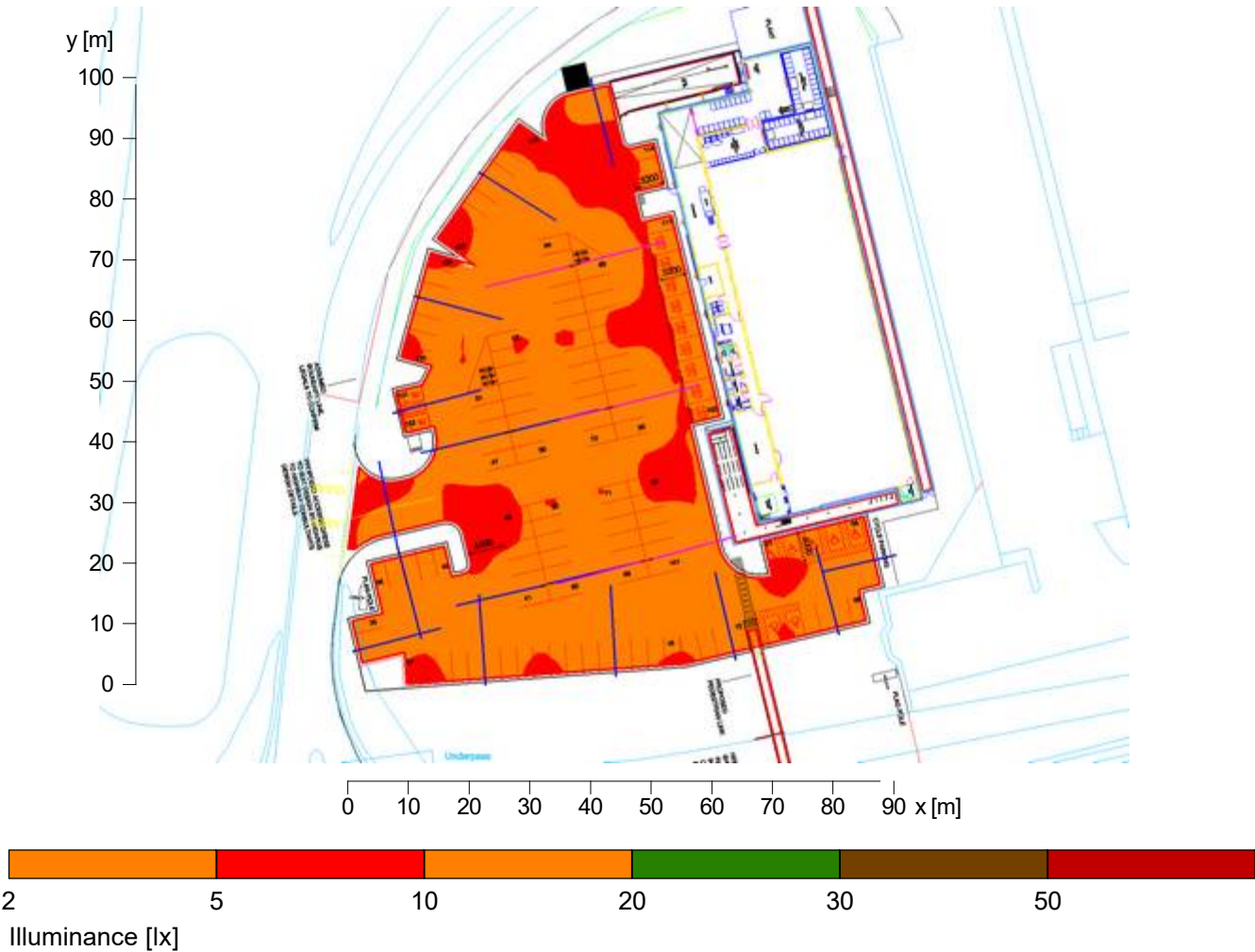
2.3.3 Pseudo colours, Canopy (E)



Height reference plane	:	0.00 m
Average illuminance	Em	: 111 lx
Minimum illuminance	Emin	: 54 lx
Maximum illuminance	Emax	: 134 lx
Uniformity Uo	Emin/Em	: 1 : 2.05 (0.49)
Diversity Ud	Emin/Emax	: 1 : 2.47 (0.41)

2.3 Calculation results, Carpark

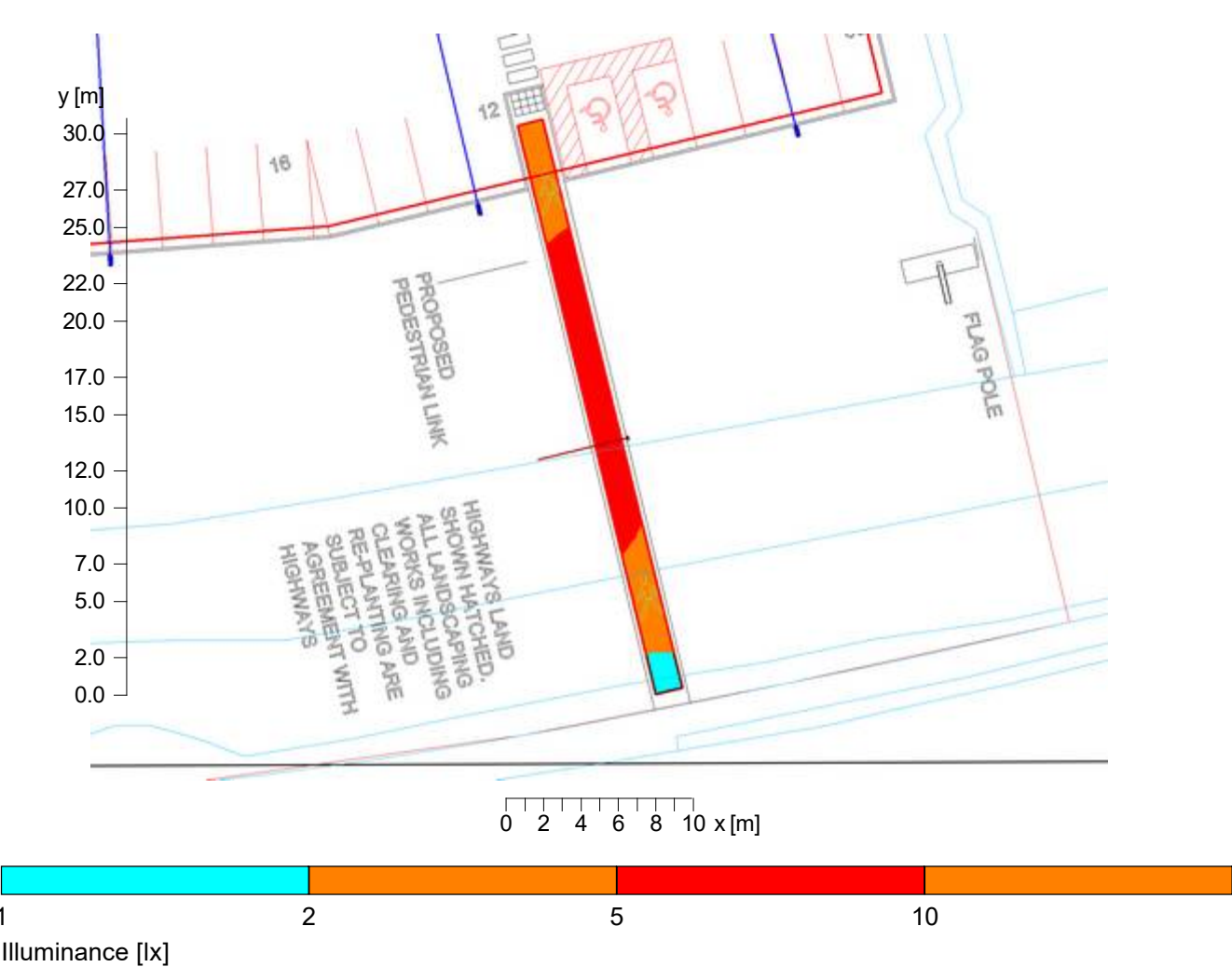
2.3.4 Pseudo colours, Carpark (E)



Height reference plane		: 0.00 m
Average illuminance	Em	: 14.9 lx
Minimum illuminance	Emin	: 4.4 lx
Maximum illuminance	Emax	: 63.5 lx
Uniformity Uo	Emin/Em	: 1 : 3.40 (0.29)
Diversity Ud	Emin/Emax	: 1 : 14.44 (0.07)

2.3 Calculation results, Carpark

2.3.5 Pseudo colours, Pedestrian Walway (E)



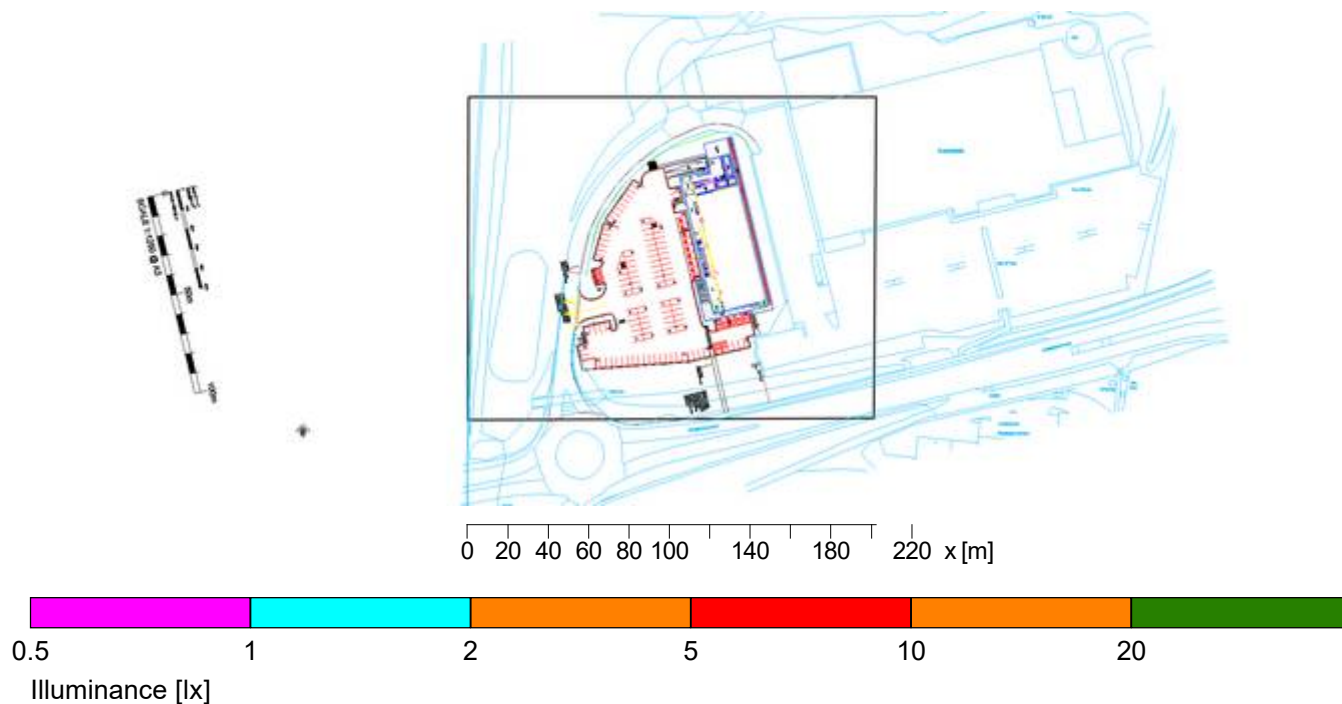
Height reference plane		: 0.00 m
Average illuminance	Em	: 6.9 lx
Minimum illuminance	Emin	: 1.5 lx
Maximum illuminance	Emax	: 15.1 lx
Uniformity Uo	Emin/Em	: 1 : 4.52 (0.22)
Diversity Ud	Emin/Emax	: 1 : 9.88 (0.10)

Object : Lidl Havant
 Installation :
 Project number : 0400478098/D372850/D-377363
 Date : 25.10.2020

3 BOH Emergency footprint

3.1 Summary, BOH Emergency footprint

3.1.1 Result overview, BOH Exterior Escape Footpath



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
Maintenance factor	0.79
Total luminous flux of all lamps	3960 lm
Total power	33 W
Total power per area (32158.99 m ²)	0.00 W/m ²
Upward light ratio (ULR)	0.00

Illuminance

Average illuminance	Em	6.42 lx
Minimum illuminance	Emin	0.84 lx
Maximum illuminance	Emax	26.6 lx
Uniformity Uo	Emin/Em	1:7.68 (0.13)
Diversity Ud	Emin/Emax	1:31.8 (0.03)

Type No./Make

6	11	Philips Lighting
		Order No. : !1300mm Linear Emergency Luminaire
		Luminaire name : LL-E EM with Adjustable Bracket
		Equipment : 1 x LED23S/840/- 3 W / 360 lm

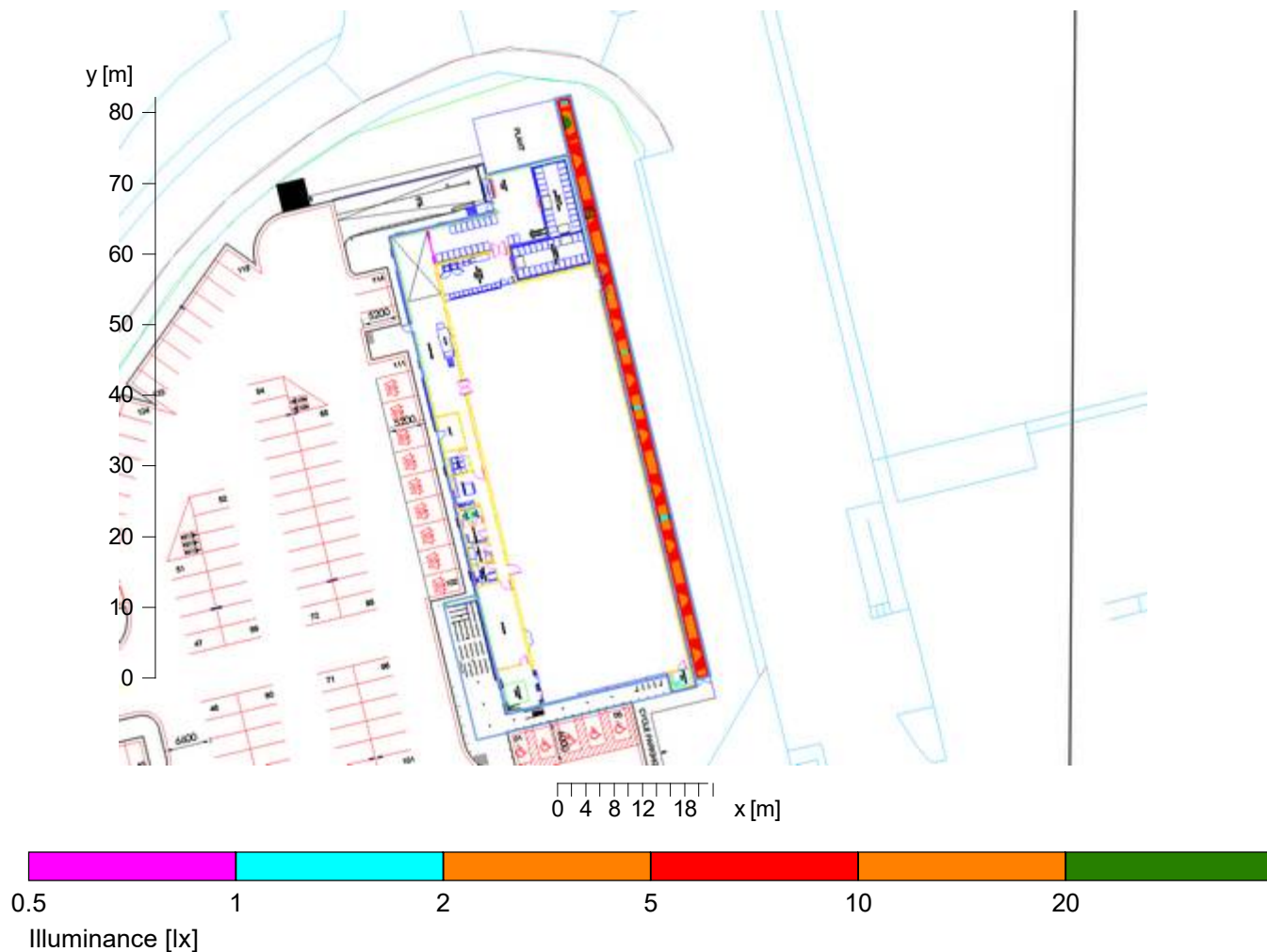
The ULR value has been calculated without obstruction by other objects.

Object : Lidl Havant
Installation :
Project number : 0400478098/D372850/D-377363
Date : 25.10.2020

3 BOH Emergency footpath

3.2 Calculation results, BOH Emergency footpath

3.2.1 Pseudo colours, BOH Exterior Escape Footpath (E)



Height reference plane		: 0.00 m
Average illuminance	Em	: 6.4 lx
Minimum illuminance	Emin	: 0.8 lx
Maximum illuminance	Emax	: 26.6 lx
Uniformity Uo	Emin/Em	: 1 : 7.68 (0.13)
Diversity Ud	Emin/Emax	: 1 : 31.77 (0.03)

Object : Lidl Havant
Installation :
Project number : 0400478098/D372850/D-377363
Date : 25.10.2020

4 Carpark Spill Light

4.1 Description, Carpark Spill Light

4.1.1 Luminaire data/Room elements

Product data:

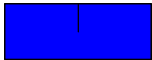
Type No.\Make

LL-E
1 23

Order No. : LL-E.Idt
Luminaire name : LL-E
Equipment : 1 x LL-E 17.4 W / 2300 lm

LL-Canopy
2 13

Order No. : LL-CANOPY.Idt
Luminaire name : LL-Canopy
Equipment : 1 x LL-Canopy 17.8 W / 2100 lm

PHILIPS/2019-07-08 Eulumdat/1 B-Tilt = 0.00
3 16

Order No. : !BGP292 T25 LED49-4S 740 DX10.Idt
Luminaire name : LL-A BGP292 T25 DX10 /740 (Lantern Ref: LL-A 4900lm)
Equipment : 1 x LED49-4S/740 31 W / 4900 lm

4 6

Order No. : !BGP292 T25 LED75-4S 740 DX10.Idt
Luminaire name : LL-C BGP292 T25 DX10 /740 (Lantern Ref: LL-C 7500lm)
Equipment : 1 x LED75-4S/740 46.5 W / 7600 lm

Philips Lighting
5 1

Order No. :
Luminaire name : BGP291 T25 1 xLED20-4S/740 DW50
Equipment : 1 x LED20-4S/740 13 W / 2000 lm

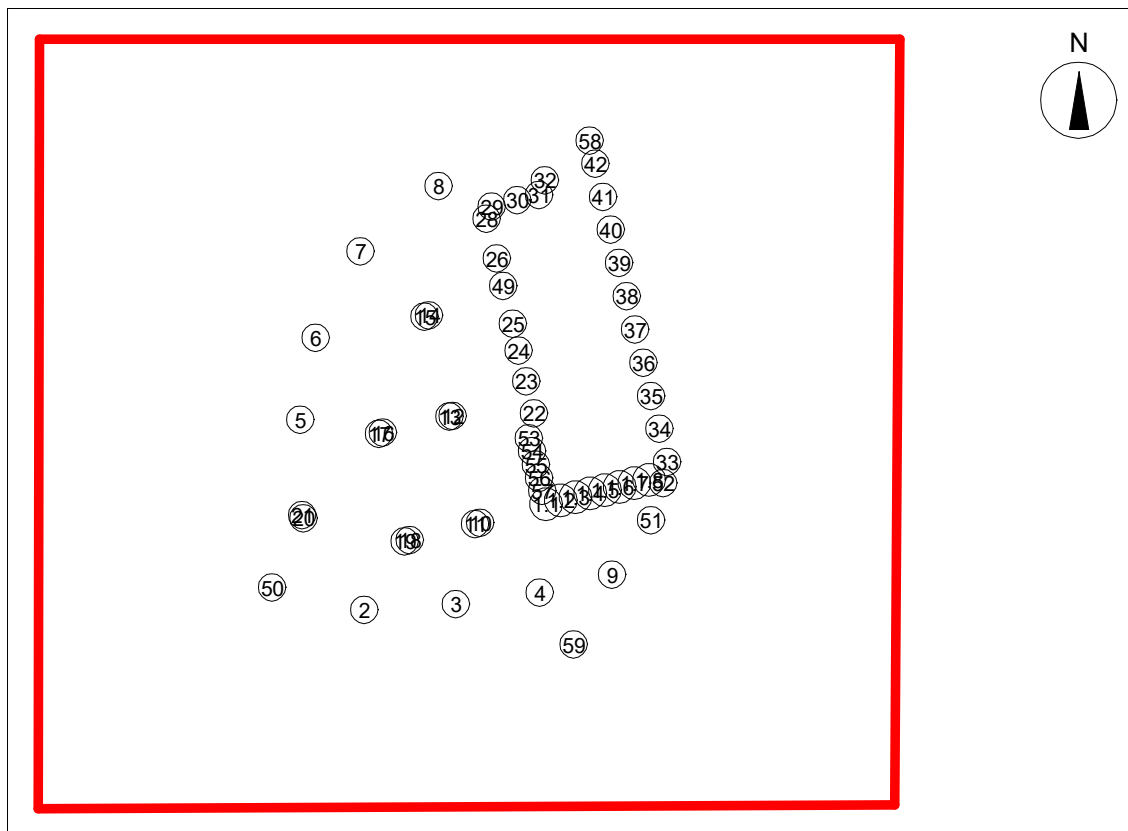
Object : Lidl Havant
Installation :
Project number : 0400478098/D372850/D-377363
Date : 25.10.2020

4 Carpark Spill Light

4.1 Description, Carpark Spill Light

4.1.1 Luminaire data/Room elements

Floor with luminaire and sensor positions:



Object : Lidl Havant
 Installation :
 Project number : 0400478098/D372850/D-377363
 Date : 25.10.2020



4 Carpark Spill Light

4.1 Description, Carpark Spill Light

4.1.1 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]
LL-E LL-E LL-E.Idt									
22	275.43	241.40	3.05	14.88	0.00	10.00	274.88	241.26	0.00
23	273.65	248.90	3.05	13.70	0.00	10.00	273.10	248.76	0.00
24	271.86	256.19	3.05	14.37	0.00	10.00	271.31	256.05	0.00
25	270.37	262.47	3.05	13.83	0.00	10.00	269.82	262.33	0.00
26	266.64	277.80	3.05	12.17	0.00	10.00	266.08	277.68	0.00
28	264.34	287.13	3.05	11.71	0.00	10.00	263.79	287.01	0.00
29	265.48	290.00	3.06	283.26	0.00	25.00	265.36	290.54	0.00
30	271.49	291.45	3.06	283.03	0.00	25.00	271.13	293.02	0.00
31	276.60	292.64	3.06	284.97	0.00	25.00	276.21	294.08	0.00
32	277.94	296.15	3.05	12.61	0.00	5.00	277.39	296.02	0.00
33	306.68	230.04	3.05	193.94	0.00	5.00	306.95	230.11	0.00
34	304.80	237.79	3.05	194.61	0.00	5.00	305.08	237.86	0.00
35	302.92	245.47	3.05	194.35	0.00	5.00	303.19	245.54	0.00
36	301.04	253.39	3.05	194.17	0.00	5.00	301.31	253.45	0.00
37	299.18	261.12	3.05	193.43	0.00	5.00	299.45	261.18	0.00
38	297.25	268.98	3.05	193.56	0.00	5.00	297.52	269.04	0.00
39	295.39	276.78	3.05	195.67	0.00	5.00	295.66	276.86	0.00
40	293.51	284.61	3.05	194.26	0.00	5.00	293.78	284.68	0.00
41	291.63	292.21	3.05	194.45	0.00	5.00	291.90	292.28	0.00
42	289.76	300.02	3.05	192.92	0.00	5.00	290.03	300.09	0.00
49	268.21	271.32	3.05	12.17	0.00	10.00	267.65	271.20	0.00
52	305.80	225.12	3.05	102.75	0.00	5.00	305.80	225.12	0.00
58	288.47	305.51	1.95	192.92	0.00	5.00	288.74	305.57	0.00

LL-Canopy LL-Canopy LL-CANOPY.Idt

53	274.20	235.63	3.20	0.00	0.00	0.00	274.20	235.63	0.00
54	275.00	232.53	3.20	0.00	0.00	0.00	275.00	232.53	0.00
55	275.80	229.43	3.20	0.00	0.00	0.00	275.80	229.43	0.00
56	276.60	226.33	3.20	0.00	0.00	0.00	276.60	226.33	0.00
57	277.40	223.23	3.20	0.00	0.00	0.00	277.40	223.23	0.00
1.1	278.24	220.16	3.20	0.00	0.00	0.00	278.24	220.16	0.00
1.2	281.70	220.98	3.20	0.00	0.00	0.00	281.70	220.98	0.00
1.3	285.15	221.79	3.20	0.00	0.00	0.00	285.15	221.79	0.00
1.4	288.60	222.61	3.20	0.00	0.00	0.00	288.60	222.61	0.00
1.5	292.05	223.42	3.20	0.00	0.00	0.00	292.05	223.42	0.00
1.6	295.50	224.24	3.20	0.00	0.00	0.00	295.50	224.24	0.00
1.7	298.96	225.05	3.20	0.00	0.00	0.00	298.96	225.05	0.00
1.8	302.41	225.87	3.20	0.00	0.00	0.00	302.41	225.87	0.00

PHILIPS/2019-07-08 Eulumdat/1 B-Tilt = 0.00 LL-A BGP292 T25 DX10 /740 (Lantern Ref: LL-A 4900lm) !BGP292 T25 LED49-4S 740 DX10.Idt

2	235.53	195.29	5.95	4.14	5.00	0.00	234.47	209.99	0.00
3	257.01	196.74	5.95	3.31	5.00	0.00	256.16	211.45	0.00
4	276.73	199.45	5.95	13.86	4.86	-1.20	273.37	213.69	0.00
5	220.56	239.93	5.95	284.76	5.00	0.00	234.81	243.69	0.00
6	224.13	259.13	5.95	255.16	5.00	0.00	238.37	255.35	0.00
7	234.71	279.47	5.95	237.94	5.00	0.00	247.20	271.65	0.00
8	252.96	294.80	5.95	194.71	5.00	0.00	256.70	280.55	0.00
9	293.73	203.65	5.95	14.69	5.00	0.00	289.99	217.90	0.00
16	240.00	236.92	5.95	284.01	5.00	0.00	254.29	240.49	0.00
17	239.09	236.71	5.95	103.50	5.00	0.00	224.77	233.27	0.00
18	246.21	211.79	5.95	283.52	5.00	0.00	260.54	215.23	0.00

Signify

Object : Lidl Havant
 Installation :
 Project number : 0400478098/D372850/D-377363
 Date : 25.10.2020

4 Carpark Spill Light

4.1 Description, Carpark Spill Light

4.1.1 Luminaire data/Room elements

19	245.02	211.41	5.95	102.90	5.00	0.00	230.66	208.12	0.00
20	221.30	216.84	5.95	194.52	5.00	0.00	224.99	202.58	0.00
21	221.09	217.56	5.95	12.30	5.00	0.00	217.95	231.95	0.00
50	213.96	200.64	5.95	284.76	5.00	0.00	228.21	204.40	0.00
51	302.90	216.40	5.95	102.84	5.00	0.00	291.51	213.81	0.00

**PHILIPS/2019-07-08 Eulumdat/1 B-Tilt = 0.00 LL-C BGP292 T25 DX10
 /740 (Lantern Ref: LL-C 7500lm) !BGP292 T25 LED75-4S 740 DX10.ltd**

10	262.74	215.73	5.95	285.24	5.00	0.00	276.95	219.60	0.00
11	261.52	215.45	5.95	104.67	5.00	0.00	247.27	211.72	0.00
12	256.36	240.86	5.95	284.07	5.00	0.00	270.65	244.45	0.00
13	255.57	240.63	5.95	103.12	5.00	0.00	241.22	237.29	0.00
14	250.83	264.50	5.95	284.61	5.00	0.00	265.09	268.22	0.00
15	249.74	264.20	5.95	103.84	5.00	0.00	235.43	260.68	0.00

Philips Lighting BGP291 T25 1 xLED20-4S/740 DW50

59	284.69	187.22	4.74	103.73	0.00	0.00	279.58	186.73	0.00
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Structural elements

Measuring surface

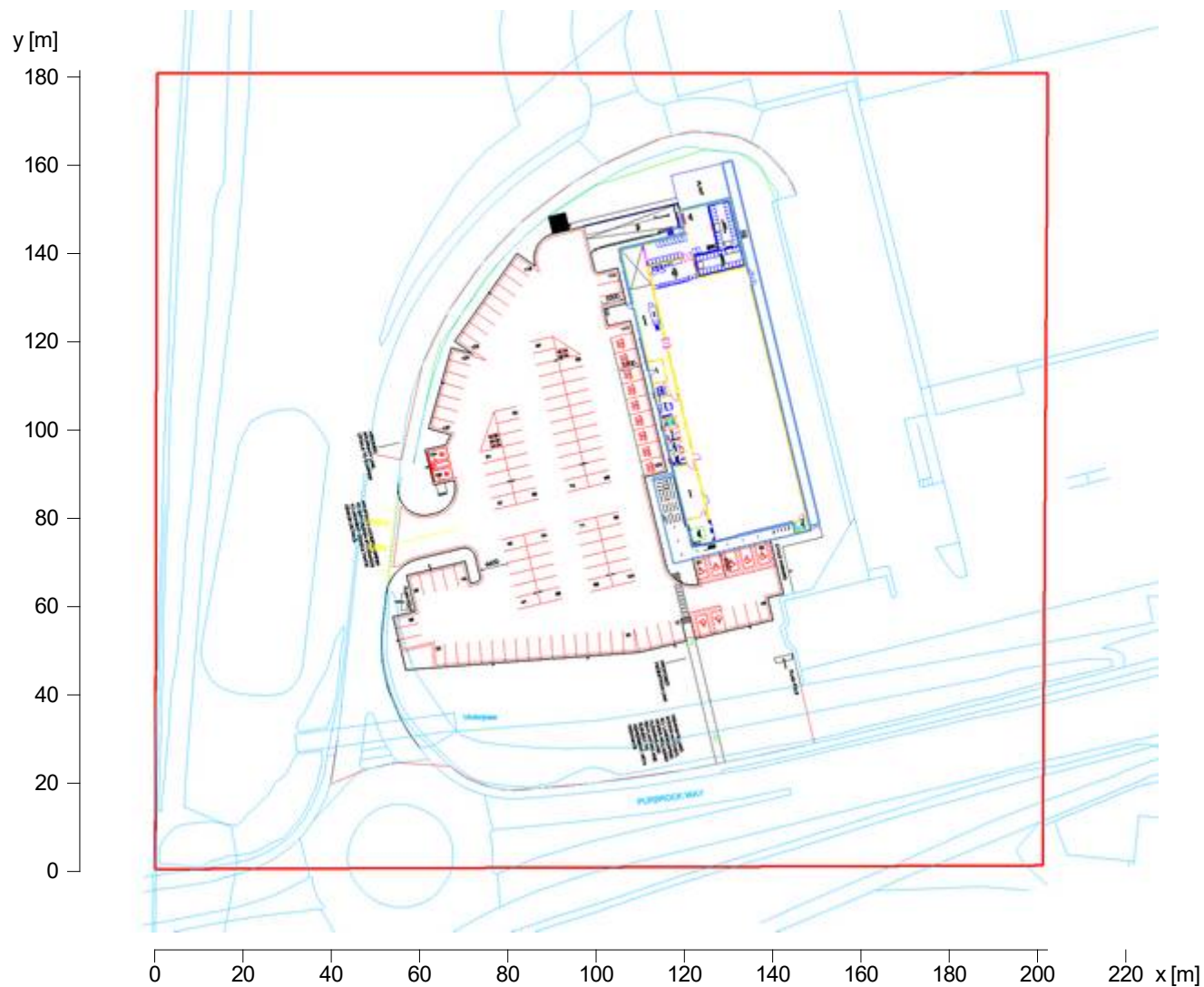
							Rotation angle	
No.	xm[m]	ym[m]	zm[m]	Length	Width	z axis	L axis	Q axis
Horizontal Spill Light								
	159.36	329.32	0.00	202.19	181.36	269.88	0.00	0.00
Vertical Spill Light								
	159.36	329.32	0.00	202.19	181.36	269.88	0.00	0.00

Others

No.	xm[m]	ym[m]	zm[m]	Length	Width	z axis	Rotation angle		rho[%]
							L axis	Q axis	
A 1	263.93	289.47	0.00	84.38	92.36	32.87	0.00	0.00	40
Tr 1	271.82	236.89	0.00	4.84	1.75	13.51	0.00	0.00	50
A 2	276.38	238.62	3.25	32.31	25.96	13.23	0.00	0.00	---
Tr 1	307.36	226.72	0.00	25.10	83.07	14.62	0.00	0.00	50

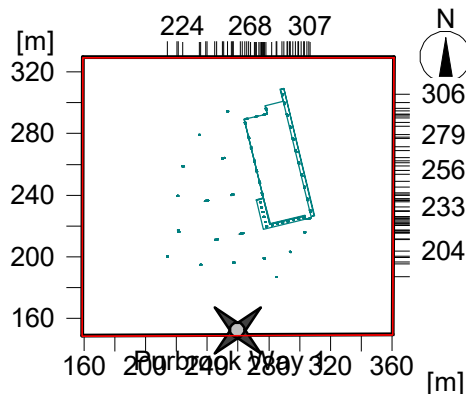
©signify

4.1.2 Floor plan



4.1 Calculation results, Carpark Spill Light

4.1.3 Luminous intensity - Purbrook Way 1



Measuring point for luminous intensity: Purbrook Way 1

Position : x = 259.75 m, y = 152.47 m, z = 1.50 m

No.	Luminaire	Position			Lumin. intensity
		x[m]	y[m]	z[m]	
1	LL-A BGP292 T25 DX10 /740 (Lant..., !BGP292 T25 LED49-4S...	221.30	216.84	5.95	0.057
2	LL-A BGP292 T25 DX10 /740 (Lant..., !BGP292 T25 LED49-4S...	302.90	216.40	5.95	0.042
3	LL-A BGP292 T25 DX10 /740 (Lant..., !BGP292 T25 LED49-4S...	252.96	294.80	5.95	0.037
4	LL-A BGP292 T25 DX10 /740 (Lant..., !BGP292 T25 LED49-4S...	213.96	200.64	5.95	0.026
5	LL-A BGP292 T25 DX10 /740 (Lant..., !BGP292 T25 LED49-4S...	234.71	279.47	5.95	0.022
6	LL-A BGP292 T25 DX10 /740 (Lant..., !BGP292 T25 LED49-4S...	224.13	259.13	5.95	0.014
7	LL-E, LL-E.Idt	305.80	225.12	3.05	0.012
8	LL-C BGP292 T25 DX10 /740 (Lante..., !BGP292 T25 LED75-4S...	261.52	215.45	5.95	0.011
9	LL-E, LL-E.Idt	271.86	256.19	3.05	0.006
10	LL-E, LL-E.Idt	270.37	262.47	3.05	0.005
11	LL-E, LL-E.Idt	268.21	271.32	3.05	0.004
12	LL-E, LL-E.Idt	266.64	277.80	3.05	0.004
13	LL-C BGP292 T25 DX10 /740 (Lante..., !BGP292 T25 LED75-4S...	255.57	240.63	5.95	0.003
14	BGP291 T25 1 xLED20-4S/740 DW50,	284.69	187.22	4.74	0.003
15	LL-E, LL-E.Idt	264.34	287.13	3.05	0.003
16	LL-A BGP292 T25 DX10 /740 (Lant..., !BGP292 T25 LED49-4S...	246.21	211.79	5.95	0.002
17	LL-A BGP292 T25 DX10 /740 (Lant..., !BGP292 T25 LED49-4S...	245.02	211.41	5.95	0.002
18	LL-C BGP292 T25 DX10 /740 (Lante..., !BGP292 T25 LED75-4S...	249.74	264.20	5.95	0.002
19	LL-C BGP292 T25 DX10 /740 (Lante..., !BGP292 T25 LED75-4S...	262.74	215.73	5.95	0.002
20	LL-A BGP292 T25 DX10 /740 (Lant..., !BGP292 T25 LED49-4S...	220.56	239.93	5.95	0.002
21	LL-C BGP292 T25 DX10 /740 (Lante..., !BGP292 T25 LED75-4S...	250.83	264.50	5.95	0.002
22	LL-C BGP292 T25 DX10 /740 (Lante..., !BGP292 T25 LED75-4S...	256.36	240.86	5.95	0.002
23	LL-A BGP292 T25 DX10 /740 (Lant..., !BGP292 T25 LED49-4S...	239.09	236.71	5.95	0.001
24	LL-A BGP292 T25 DX10 /740 (Lant..., !BGP292 T25 LED49-4S...	235.53	195.29	5.95	0.001
25	LL-A BGP292 T25 DX10 /740 (Lant..., !BGP292 T25 LED49-4S...	240.00	236.92	5.95	0.001
26	LL-A BGP292 T25 DX10 /740 (Lant..., !BGP292 T25 LED49-4S...	293.73	203.65	5.95	0.001
27	LL-A BGP292 T25 DX10 /740 (Lant..., !BGP292 T25 LED49-4S...	276.73	199.45	5.95	0.001
28	LL-A BGP292 T25 DX10 /740 (Lant..., !BGP292 T25 LED49-4S...	257.01	196.74	5.95	0.001

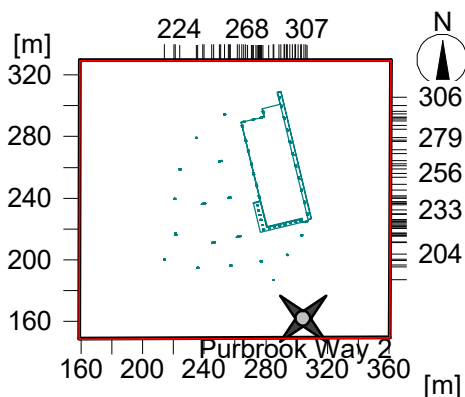
4.1 Calculation results, Carpark Spill Light

4.1.3 Luminous intensity - Purbrook Way 1

29	LL-E, LL-E.Idt	276.60	292.64	3.06	0.000
30	LL-A BGP292 T25 DX10 /740 (Lant..., !BGP292 T25 LED49-4S...	221.09	217.56	5.95	0.000
31	LL-E, LL-E.Idt	306.68	230.04	3.05	0.000
32	LL-E, LL-E.Idt	304.80	237.79	3.05	0.000
33	LL-E, LL-E.Idt	302.92	245.47	3.05	0.000
34	LL-E, LL-E.Idt	301.04	253.39	3.05	0.000
35	LL-E, LL-E.Idt	271.49	291.45	3.06	0.000
36	LL-E, LL-E.Idt	297.25	268.98	3.05	0.000
37	LL-E, LL-E.Idt	295.39	276.78	3.05	0.000
38	LL-E, LL-E.Idt	293.51	284.61	3.05	0.000
39	LL-E, LL-E.Idt	291.63	292.21	3.05	0.000
40	LL-E, LL-E.Idt	289.76	300.02	3.05	0.000
41	LL-E, LL-E.Idt	265.48	290.00	3.06	0.000
42	LL-E, LL-E.Idt	273.65	248.90	3.05	0.000
43	LL-E, LL-E.Idt	275.43	241.40	3.05	0.000
44	LL-E, LL-E.Idt	299.18	261.12	3.05	0.000
45	LL-Canopy, LL-CANOPY.Idt	274.20	235.63	3.20	0.000
46	LL-Canopy, LL-CANOPY.Idt	275.00	232.53	3.20	0.000
47	LL-Canopy, LL-CANOPY.Idt	275.80	229.43	3.20	0.000
48	LL-Canopy, LL-CANOPY.Idt	276.60	226.33	3.20	0.000
49	LL-Canopy, LL-CANOPY.Idt	277.40	223.23	3.20	0.000
50	LL-Canopy, LL-CANOPY.Idt	278.24	220.16	3.20	0.000
51	LL-Canopy, LL-CANOPY.Idt	281.70	220.98	3.20	0.000
52	LL-Canopy, LL-CANOPY.Idt	285.15	221.79	3.20	0.000
53	LL-Canopy, LL-CANOPY.Idt	288.60	222.61	3.20	0.000
54	LL-Canopy, LL-CANOPY.Idt	292.05	223.42	3.20	0.000
55	LL-Canopy, LL-CANOPY.Idt	295.50	224.24	3.20	0.000
56	LL-Canopy, LL-CANOPY.Idt	298.96	225.05	3.20	0.000
57	LL-Canopy, LL-CANOPY.Idt	302.41	225.87	3.20	0.000
58	LL-E, LL-E.Idt	288.47	305.51	1.95	0.000
59	LL-E, LL-E.Idt	277.94	296.15	3.05	0.000

4.1 Calculation results, Carpark Spill Light

4.1.4 Luminous intensity - Purbrook Way 2



Measuring point for luminous intensity: Purbrook Way 2

Position : x = 304.17 m, y = 161.74 m, z = 1.50 m

No.	Luminaire	Position			Lumin. intensity
		x[m]	y[m]	z[m]	
1	LL-A BGP292 T25 DX10 /740 (Lant..., !BGP292 T25 LED49-4S...	246.21	211.79	5.95	0.051
2	LL-A BGP292 T25 DX10 /740 (Lant..., !BGP292 T25 LED49-4S...	213.96	200.64	5.95	0.031
3	LL-A BGP292 T25 DX10 /740 (Lant..., !BGP292 T25 LED49-4S...	234.71	279.47	5.95	0.031
4	LL-A BGP292 T25 DX10 /740 (Lant..., !BGP292 T25 LED49-4S...	221.30	216.84	5.95	0.030
5	LL-A BGP292 T25 DX10 /740 (Lant..., !BGP292 T25 LED49-4S...	224.13	259.13	5.95	0.027
6	LL-E, LL-E.Idt	305.80	225.12	3.05	0.017
7	LL-C BGP292 T25 DX10 /740 (Lante..., !BGP292 T25 LED75-4S...	262.74	215.73	5.95	0.014
8	LL-A BGP292 T25 DX10 /740 (Lant..., !BGP292 T25 LED49-4S...	220.56	239.93	5.95	0.011
9	LL-A BGP292 T25 DX10 /740 (Lant..., !BGP292 T25 LED49-4S...	240.00	236.92	5.95	0.007
10	LL-A BGP292 T25 DX10 /740 (Lant..., !BGP292 T25 LED49-4S...	302.90	216.40	5.95	0.007
11	LL-C BGP292 T25 DX10 /740 (Lante..., !BGP292 T25 LED75-4S...	256.36	240.86	5.95	0.005
12	LL-C BGP292 T25 DX10 /740 (Lante..., !BGP292 T25 LED75-4S...	250.83	264.50	5.95	0.002
13	BGP291 T25 1 xLED20-4S/740 DW50,	284.69	187.22	4.74	0.002
14	LL-A BGP292 T25 DX10 /740 (Lant..., !BGP292 T25 LED49-4S...	276.73	199.45	5.95	0.002
15	LL-C BGP292 T25 DX10 /740 (Lante..., !BGP292 T25 LED75-4S...	255.57	240.63	5.95	0.002
16	LL-C BGP292 T25 DX10 /740 (Lante..., !BGP292 T25 LED75-4S...	261.52	215.45	5.95	0.002
17	LL-C BGP292 T25 DX10 /740 (Lante..., !BGP292 T25 LED75-4S...	249.74	264.20	5.95	0.001
18	LL-A BGP292 T25 DX10 /740 (Lant..., !BGP292 T25 LED49-4S...	257.01	196.74	5.95	0.001
19	LL-A BGP292 T25 DX10 /740 (Lant..., !BGP292 T25 LED49-4S...	235.53	195.29	5.95	0.001
20	LL-A BGP292 T25 DX10 /740 (Lant..., !BGP292 T25 LED49-4S...	293.73	203.65	5.95	0.001
21	LL-A BGP292 T25 DX10 /740 (Lant..., !BGP292 T25 LED49-4S...	245.02	211.41	5.95	0.000
22	LL-A BGP292 T25 DX10 /740 (Lant..., !BGP292 T25 LED49-4S...	239.09	236.71	5.95	0.000
23	LL-E, LL-E.Idt	271.86	256.19	3.05	0.000
24	LL-E, LL-E.Idt	270.37	262.47	3.05	0.000
25	LL-E, LL-E.Idt	266.64	277.80	3.05	0.000
26	LL-E, LL-E.Idt	264.34	287.13	3.05	0.000
27	LL-E, LL-E.Idt	265.48	290.00	3.06	0.000
28	LL-E, LL-E.Idt	271.49	291.45	3.06	0.000

Object : Lidl Havant
 Installation :
 Project number : 0400478098/D372850/D-377363
 Date : 25.10.2020



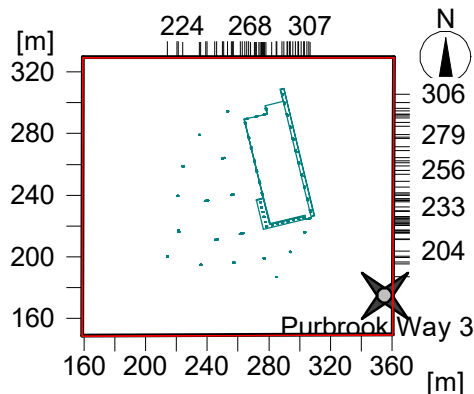
4.1 Calculation results, Carpark Spill Light

4.1.4 Luminous intensity - Purbrook Way 2

29	LL-E, LL-E.ltd	276.60	292.64	3.06	0.000
30	LL-E, LL-E.ltd	273.65	248.90	3.05	0.000
31	LL-E, LL-E.ltd	275.43	241.40	3.05	0.000
32	LL-E, LL-E.ltd	304.80	237.79	3.05	0.000
33	LL-E, LL-E.ltd	302.92	245.47	3.05	0.000
34	LL-E, LL-E.ltd	301.04	253.39	3.05	0.000
35	LL-E, LL-E.ltd	299.18	261.12	3.05	0.000
36	LL-E, LL-E.ltd	297.25	268.98	3.05	0.000
37	LL-E, LL-E.ltd	295.39	276.78	3.05	0.000
38	LL-E, LL-E.ltd	293.51	284.61	3.05	0.000
39	LL-E, LL-E.ltd	291.63	292.21	3.05	0.000
40	LL-E, LL-E.ltd	289.76	300.02	3.05	0.000
41	LL-E, LL-E.ltd	268.21	271.32	3.05	0.000
42	LL-E, LL-E.ltd	306.68	230.04	3.05	0.000
43	LL-A BGP292 T25 DX10 /740 (Lant..., IBGP292 T25 LED49-4S...	221.09	217.56	5.95	0.000
44	LL-A BGP292 T25 DX10 /740 (Lant..., IBGP292 T25 LED49-4S...	252.96	294.80	5.95	0.000
45	LL-Canopy, LL-CANOPY.ltd	274.20	235.63	3.20	0.000
46	LL-Canopy, LL-CANOPY.ltd	275.00	232.53	3.20	0.000
47	LL-Canopy, LL-CANOPY.ltd	275.80	229.43	3.20	0.000
48	LL-Canopy, LL-CANOPY.ltd	276.60	226.33	3.20	0.000
49	LL-Canopy, LL-CANOPY.ltd	277.40	223.23	3.20	0.000
50	LL-Canopy, LL-CANOPY.ltd	278.24	220.16	3.20	0.000
51	LL-Canopy, LL-CANOPY.ltd	281.70	220.98	3.20	0.000
52	LL-Canopy, LL-CANOPY.ltd	285.15	221.79	3.20	0.000
53	LL-Canopy, LL-CANOPY.ltd	288.60	222.61	3.20	0.000
54	LL-Canopy, LL-CANOPY.ltd	292.05	223.42	3.20	0.000
55	LL-Canopy, LL-CANOPY.ltd	295.50	224.24	3.20	0.000
56	LL-Canopy, LL-CANOPY.ltd	298.96	225.05	3.20	0.000
57	LL-Canopy, LL-CANOPY.ltd	302.41	225.87	3.20	0.000
58	LL-E, LL-E.ltd	288.47	305.51	1.95	0.000
59	LL-E, LL-E.ltd	277.94	296.15	3.05	0.000

4.1 Calculation results, Carpark Spill Light

4.1.5 Luminous intensity - Purbrook Way 3



Measuring point for luminous intensity: Purbrook Way 3

Position : x = 355.19 m, y = 174.86 m, z = 1.50 m

No.	Luminaire	Position			Lumin. intensity
		x[m]	y[m]	z[m]	
1	LL-C BGP292 T25 DX10 /740 (Lante..., !BGP292 T25 LED75-4S...	262.74	215.73	5.95	0.049
2	LL-A BGP292 T25 DX10 /740 (Lant..., !BGP292 T25 LED49-4S...	213.96	200.64	5.95	0.036
3	LL-A BGP292 T25 DX10 /740 (Lant..., !BGP292 T25 LED49-4S...	246.21	211.79	5.95	0.029
4	LL-A BGP292 T25 DX10 /740 (Lant..., !BGP292 T25 LED49-4S...	220.56	239.93	5.95	0.023
5	LL-A BGP292 T25 DX10 /740 (Lant..., !BGP292 T25 LED49-4S...	240.00	236.92	5.95	0.023
6	LL-E, LL-E.Idt	305.80	225.12	3.05	0.015
7	LL-A BGP292 T25 DX10 /740 (Lant..., !BGP292 T25 LED49-4S...	221.30	216.84	5.95	0.008
8	LL-E, LL-E.Idt	306.68	230.04	3.05	0.007
9	LL-E, LL-E.Idt	304.80	237.79	3.05	0.006
10	LL-E, LL-E.Idt	302.92	245.47	3.05	0.005
11	LL-E, LL-E.Idt	301.04	253.39	3.05	0.005
12	LL-E, LL-E.Idt	299.18	261.12	3.05	0.004
13	LL-E, LL-E.Idt	297.25	268.98	3.05	0.004
14	LL-E, LL-E.Idt	293.51	284.61	3.05	0.003
15	LL-E, LL-E.Idt	295.39	276.78	3.05	0.003
16	LL-E, LL-E.Idt	289.76	300.02	3.05	0.003
17	LL-E, LL-E.Idt	291.63	292.21	3.05	0.003
18	LL-A BGP292 T25 DX10 /740 (Lant..., !BGP292 T25 LED49-4S...	276.73	199.45	5.95	0.001
19	LL-A BGP292 T25 DX10 /740 (Lant..., !BGP292 T25 LED49-4S...	302.90	216.40	5.95	0.001
20	LL-A BGP292 T25 DX10 /740 (Lant..., !BGP292 T25 LED49-4S...	257.01	196.74	5.95	0.001
21	LL-A BGP292 T25 DX10 /740 (Lant..., !BGP292 T25 LED49-4S...	235.53	195.29	5.95	0.001
22	LL-A BGP292 T25 DX10 /740 (Lant..., !BGP292 T25 LED49-4S...	293.73	203.65	5.95	0.001
23	LL-E, LL-E.Idt	275.43	241.40	3.05	0.000
24	LL-E, LL-E.Idt	270.37	262.47	3.05	0.000
25	LL-E, LL-E.Idt	266.64	277.80	3.05	0.000
26	LL-E, LL-E.Idt	264.34	287.13	3.05	0.000
27	LL-E, LL-E.Idt	265.48	290.00	3.06	0.000
28	LL-E, LL-E.Idt	271.49	291.45	3.06	0.000

4.1 Calculation results, Carpark Spill Light

4.1.5 Luminous intensity - Purbrook Way 3

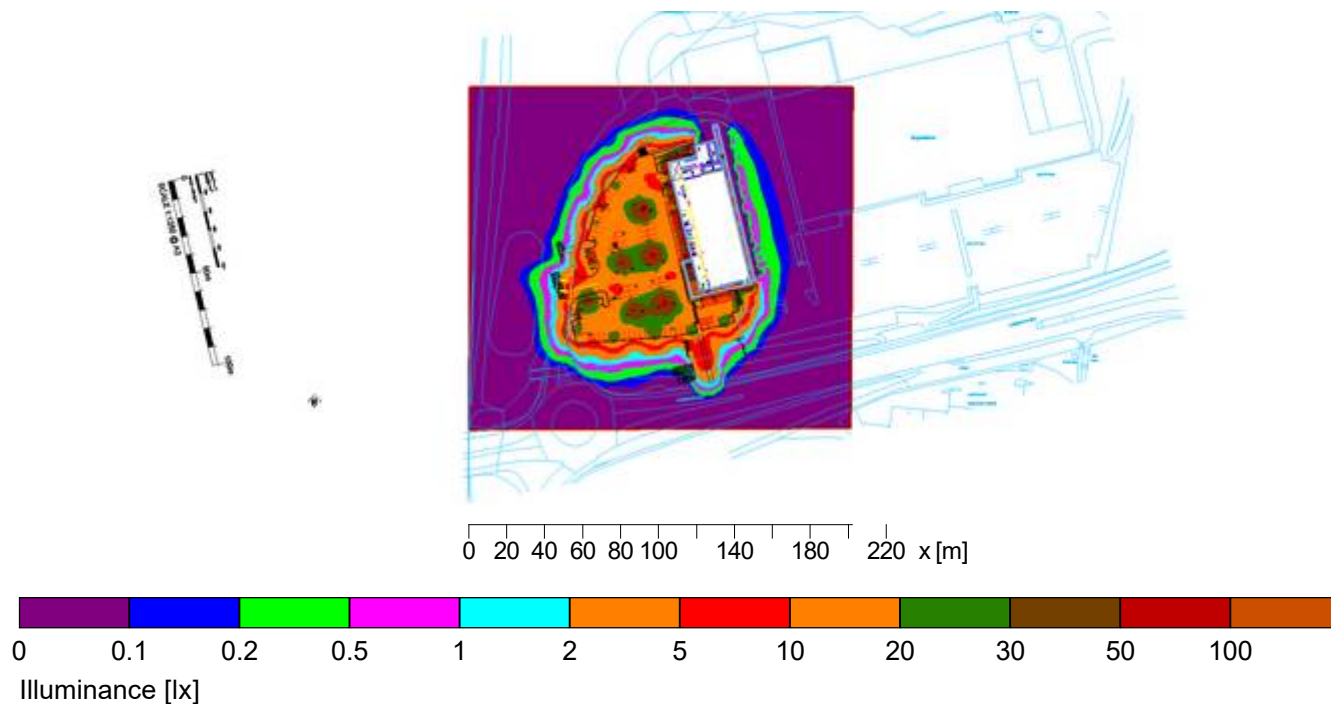
29	LL-E, LL-E.Idt	276.60	292.64	3.06	0.000
30	LL-E, LL-E.Idt	277.94	296.15	3.05	0.000
31	LL-A BGP292 T25 DX10 /740 (Lant..., !BGP292 T25 LED49-4S...	221.09	217.56	5.95	0.000
32	LL-A BGP292 T25 DX10 /740 (Lant..., !BGP292 T25 LED49-4S...	245.02	211.41	5.95	0.000
33	LL-A BGP292 T25 DX10 /740 (Lant..., !BGP292 T25 LED49-4S...	239.09	236.71	5.95	0.000
34	LL-C BGP292 T25 DX10 /740 (Lante..., !BGP292 T25 LED75-4S...	249.74	264.20	5.95	0.000
35	LL-C BGP292 T25 DX10 /740 (Lante..., !BGP292 T25 LED75-4S...	250.83	264.50	5.95	0.000
36	LL-C BGP292 T25 DX10 /740 (Lante..., !BGP292 T25 LED75-4S...	255.57	240.63	5.95	0.000
37	LL-C BGP292 T25 DX10 /740 (Lante..., !BGP292 T25 LED75-4S...	256.36	240.86	5.95	0.000
38	LL-C BGP292 T25 DX10 /740 (Lante..., !BGP292 T25 LED75-4S...	261.52	215.45	5.95	0.000
39	LL-E, LL-E.Idt	273.65	248.90	3.05	0.000
40	LL-A BGP292 T25 DX10 /740 (Lant..., !BGP292 T25 LED49-4S...	252.96	294.80	5.95	0.000
41	LL-E, LL-E.Idt	268.21	271.32	3.05	0.000
42	LL-A BGP292 T25 DX10 /740 (Lant..., !BGP292 T25 LED49-4S...	234.71	279.47	5.95	0.000
43	LL-A BGP292 T25 DX10 /740 (Lant..., !BGP292 T25 LED49-4S...	224.13	259.13	5.95	0.000
44	LL-E, LL-E.Idt	271.86	256.19	3.05	0.000
45	LL-Canopy, LL-CANOPY.Idt	274.20	235.63	3.20	0.000
46	LL-Canopy, LL-CANOPY.Idt	275.00	232.53	3.20	0.000
47	LL-Canopy, LL-CANOPY.Idt	275.80	229.43	3.20	0.000
48	LL-Canopy, LL-CANOPY.Idt	276.60	226.33	3.20	0.000
49	LL-Canopy, LL-CANOPY.Idt	277.40	223.23	3.20	0.000
50	LL-Canopy, LL-CANOPY.Idt	278.24	220.16	3.20	0.000
51	LL-Canopy, LL-CANOPY.Idt	281.70	220.98	3.20	0.000
52	LL-Canopy, LL-CANOPY.Idt	285.15	221.79	3.20	0.000
53	LL-Canopy, LL-CANOPY.Idt	288.60	222.61	3.20	0.000
54	LL-Canopy, LL-CANOPY.Idt	292.05	223.42	3.20	0.000
55	LL-Canopy, LL-CANOPY.Idt	295.50	224.24	3.20	0.000
56	LL-Canopy, LL-CANOPY.Idt	298.96	225.05	3.20	0.000
57	LL-Canopy, LL-CANOPY.Idt	302.41	225.87	3.20	0.000
58	LL-E, LL-E.Idt	288.47	305.51	1.95	0.000
59	BGP291 T25 1 xLED20-4S/740 DW50,	284.69	187.22	4.74	0.000

Object : Lidl Havant
 Installation :
 Project number : 0400478098/D372850/D-377363
 Date : 25.10.2020

4 Carpark Spill Light

4.2 Summary, Carpark Spill Light

4.2.1 Result overview, Horizontal Spill Light



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
Maintenance factor	1.00
Total luminous flux of all lamps	206200 lm
Total power	1419.6 W
Total power per area (36280.59 m ²)	0.04 W/m ² (0.87 W/m ² /100lx)
Upward light ratio (ULR)	0.00

Illuminance

Average illuminance	Em	4 lx
Minimum illuminance	Emin	0 lx
Maximum illuminance	Emax	165 lx
Uniformity Uo	Emin/Em	1:--- (---)
Diversity Ud	Emin/Emax	1:--- (---)

Type No. Make

1	23	LL-E	
		Order No.	: LL-E.Idt
		Luminaire name	: LL-E
		Equipment	: 1 x LL-E 17.4 W / 2300 lm

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

Object : Lidl Havant
Installation :
Project number : 0400478098/D372850/D-377363
Date : 25.10.2020

4 Carpark Spill Light

4.2 Summary, Carpark Spill Light

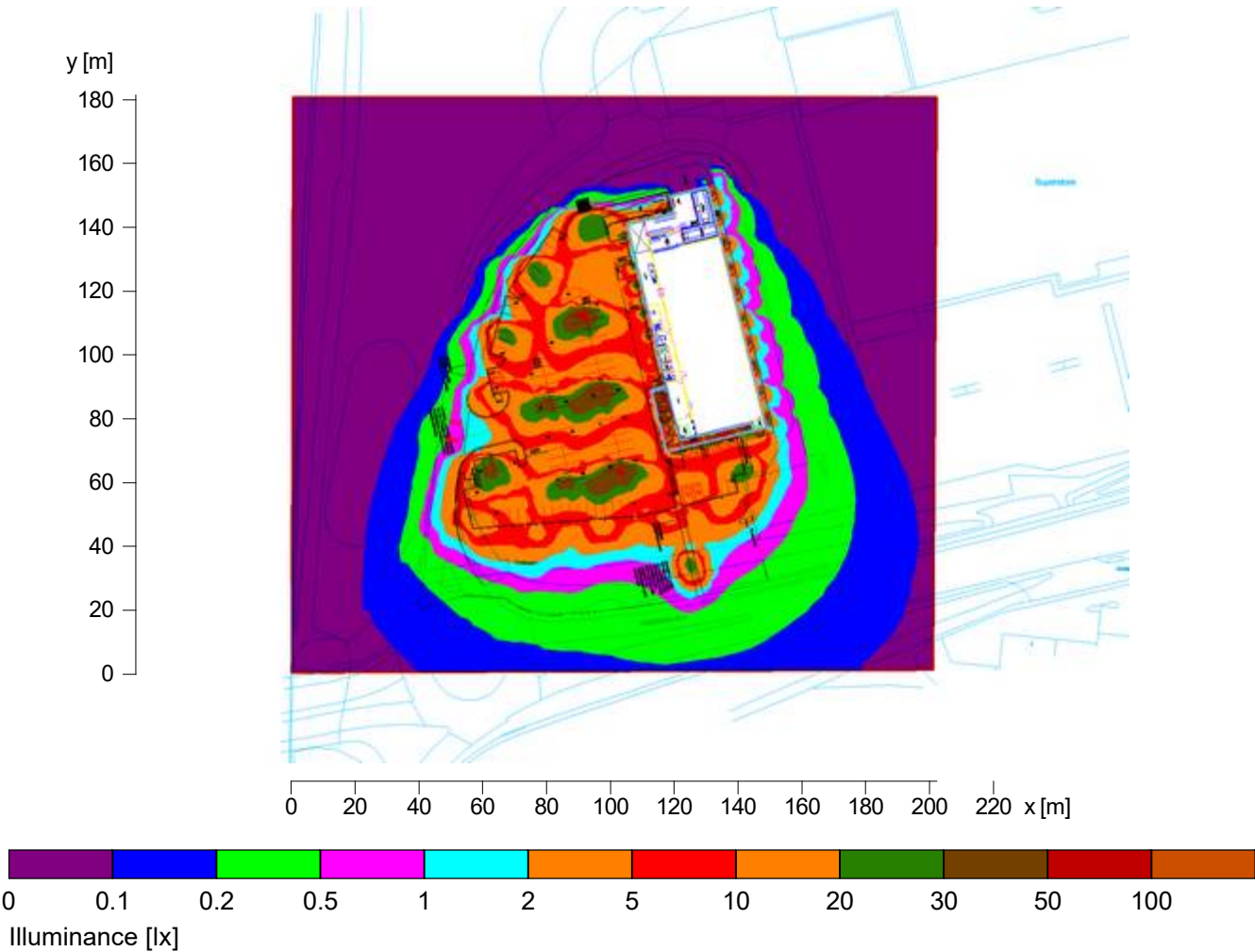
4.2.1 Result overview, Horizontal Spill Light

		LL-Canopy	
2	13	Order No.	: LL-CANOPY.Idt
		Luminaire name	: LL-Canopy
		Equipment	: 1 x LL-Canopy 17.8 W / 2100 lm
		PHILIPS/2019-07-08 Eulumdat/1 B-Tilt = 0.00	
3	16	Order No.	: !BGP292 T25 LED49-4S 740 DX10.Idt
		Luminaire name	: LL-A BGP292 T25 DX10 /740 (Lantern Ref: LL-A 4900lm)
		Equipment	: 1 x LED49-4S/740 31 W / 4900 lm
4	6	Order No.	: !BGP292 T25 LED75-4S 740 DX10.Idt
		Luminaire name	: LL-C BGP292 T25 DX10 /740 (Lantern Ref: LL-C 7500lm)
		Equipment	: 1 x LED75-4S/740 46.5 W / 7600 lm
		Philips Lighting	
5	1	Order No.	:
		Luminaire name	: BGP291 T25 1 xLED20-4S/740 DW50
		Equipment	: 1 x LED20-4S/740 13 W / 2000 lm

4 Carpark Spill Light

4.3 Calculation results, Carpark Spill Light

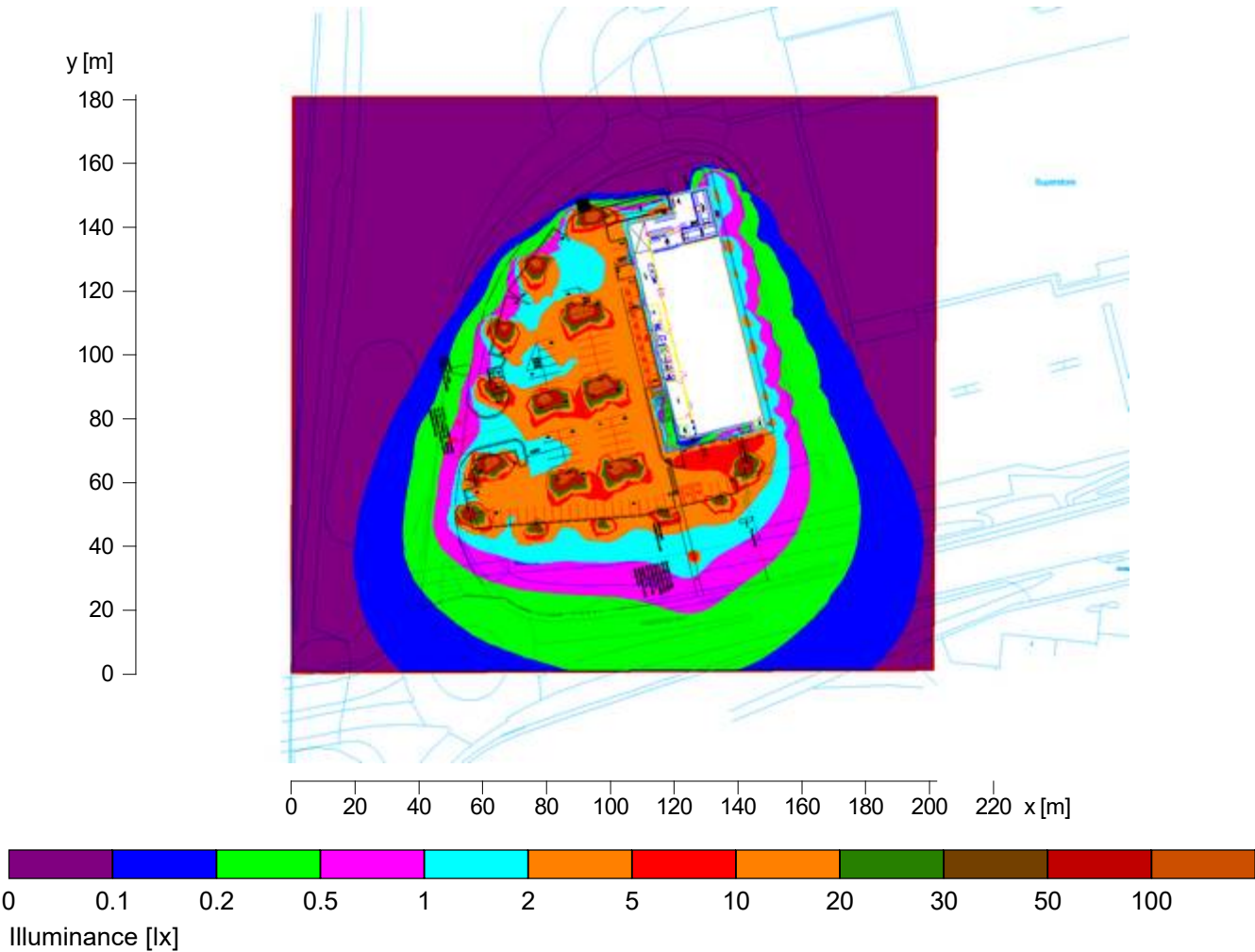
4.3.1 Pseudo colours, Vertical Spill Light (Ev, North (0°))



Vertical illuminance		
Height reference plane		: 2.00 m
from direction		: North (0°)
Average illuminance	Em	: 3 lx
Minimum illuminance	Emin	: 0 lx
Maximum illuminance	Emax	: 192 lx
Uniformity Uo	Emin/Em	: ---
Diversity Ud	Emin/Emax	: ---

4.3 Calculation results, Carpark Spill Light

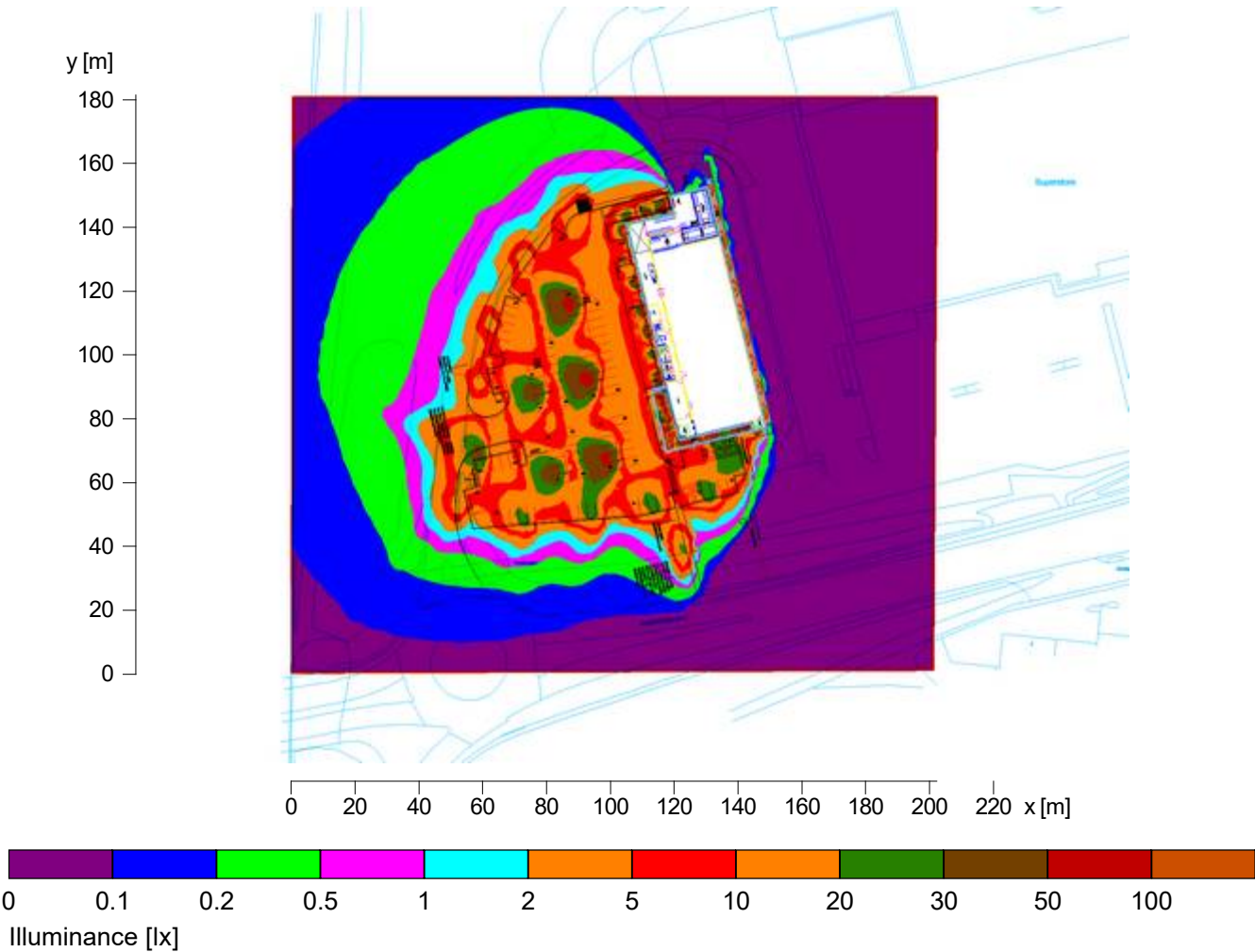
4.3.2 Pseudo colours, Vertical Spill Light (Ev, North (0°))



Vertical illuminance		
Height reference plane		: 4.50 m
from direction		: North (0°)
Average illuminance	Em	: 2 lx
Minimum illuminance	Emin	: 0 lx
Maximum illuminance	Emax	: 236 lx
Uniformity Uo	Emin/Em	: ---
Diversity Ud	Emin/Emax	: ---

4.3 Calculation results, Carpark Spill Light

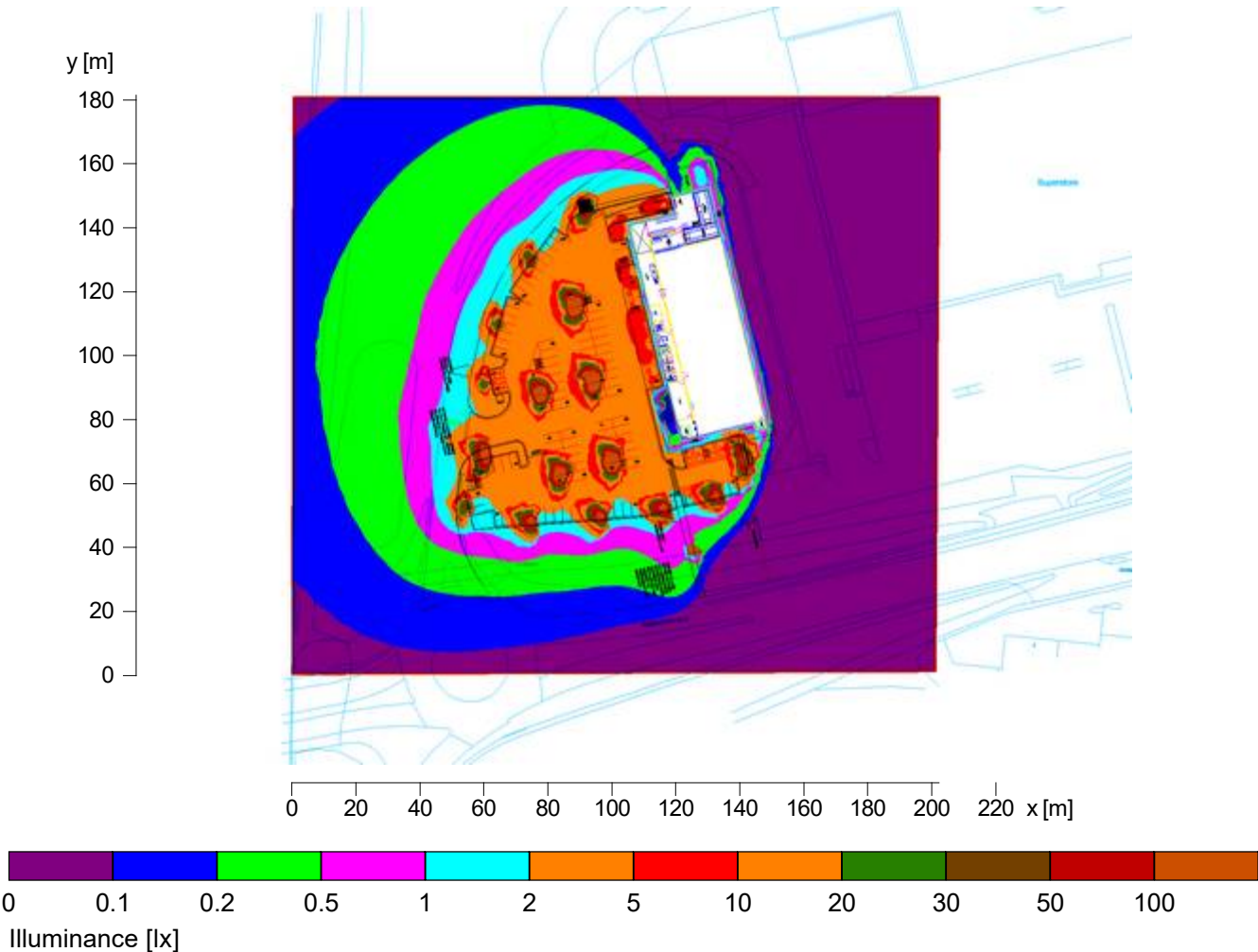
4.3.3 Pseudo colours, Vertical Spill Light (Ev, East (90°))



Vertical illuminance		
Height reference plane		: 2.00 m
from direction		: East (90°)
Average illuminance	Em	: 3 lx
Minimum illuminance	Emin	: 0 lx
Maximum illuminance	Emax	: 124 lx
Uniformity Uo	Emin/Em	: ---
Diversity Ud	Emin/Emax	: ---

4.3 Calculation results, Carpark Spill Light

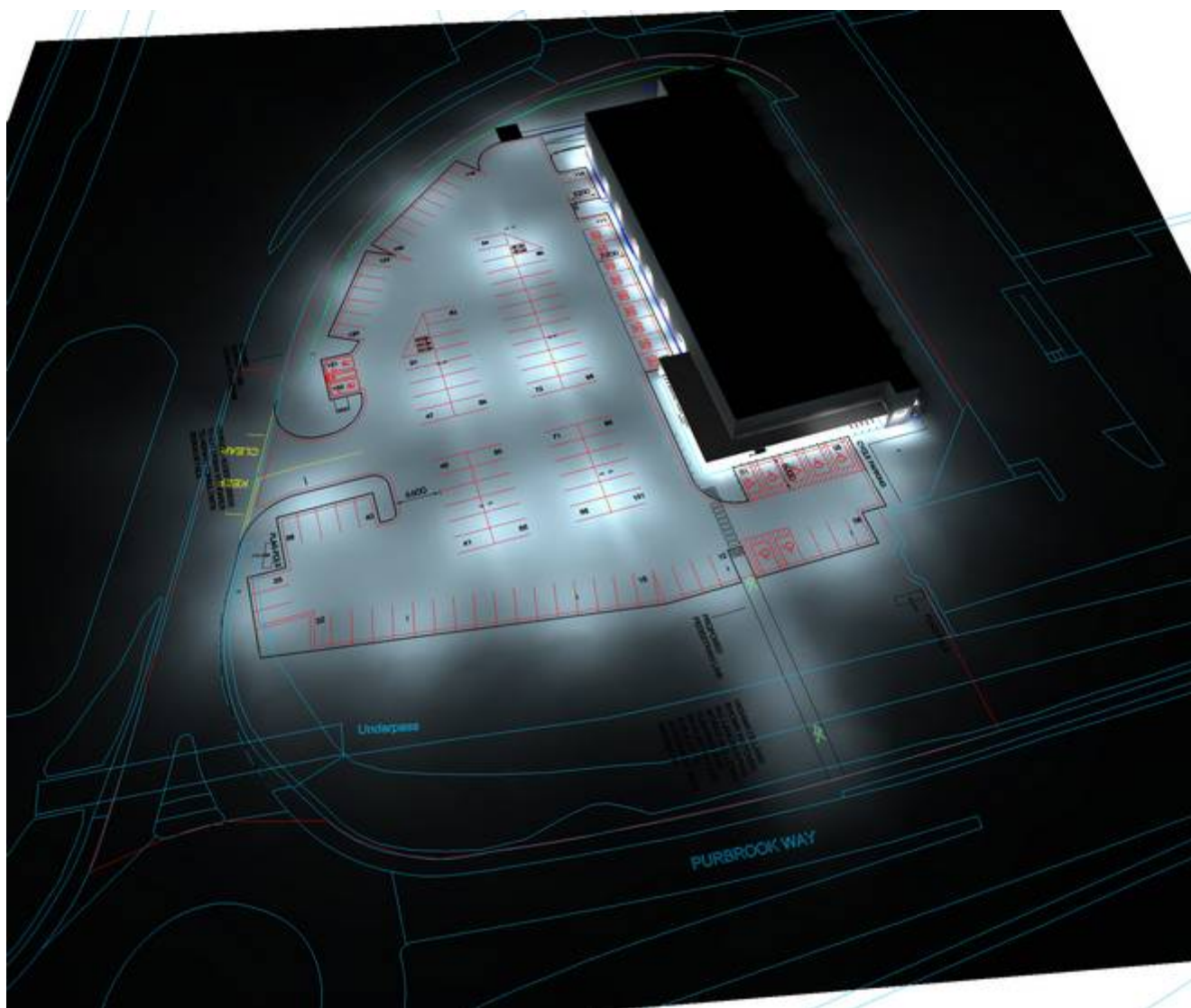
4.3.4 Pseudo colours, Vertical Spill Light (Ev, East (90°))



Vertical illuminance		
Height reference plane		: 4.50 m
from direction		: East (90°)
Average illuminance	Em	: 2 lx
Minimum illuminance	Emin	: 0 lx
Maximum illuminance	Emax	: 349 lx
Uniformity Uo	Emin/Em	: ---
Diversity Ud	Emin/Emax	: ---

4.3 Calculation results, Carpark Spill Light

4.3.5 3D luminance, View 1



4.3 Calculation results, Carpark Spill Light

4.3.6 3D pseudo colours, View 1 (E)

