

Central Coop Birkdale Externals

Installation : Proposed Lighting

Project number :

Customer :

Processed by : DW

Date : 06.12.2023

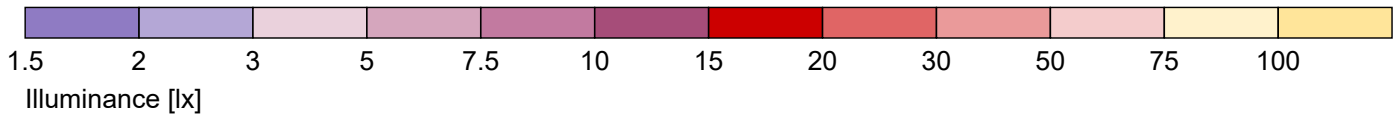
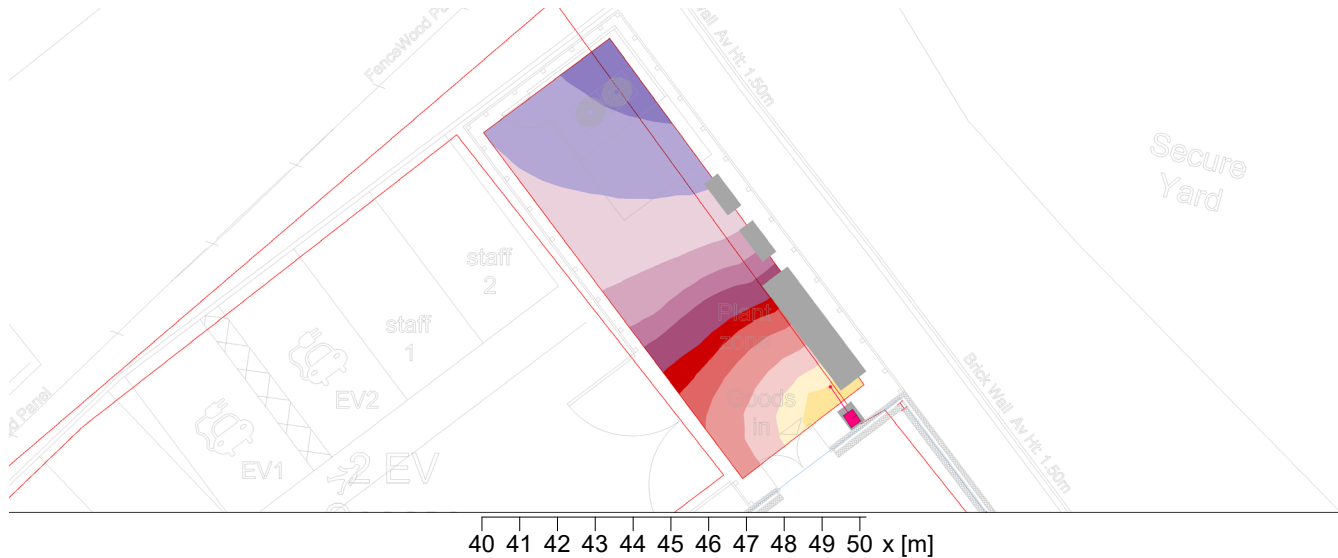
The following values are based on precise calculations performed on calibrated lamps and luminaires, and their configurations, whereby gradual, unavoidable deviations can occur in practice. All guarantee claims are excluded for the specified data.

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

1 Exterior 1

1.2 Summary, Exterior 1

1.2.1 Result overview, Measuring area 1.1



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
Maintenance factor	0.80

Total luminous flux	55400 lm
Total power	457 W
Total power per area (1824.25 m ²)	0.25 W/m ²

Illuminance

Average illuminance	\bar{E}_m	18 lx
Minimum illuminance	E_{min}	2 lx
Maximum illuminance	E_{max}	112 lx
Uniformity U_o	E_{min}/\bar{E}_m	1:11.5 (0.09)
Diversity U_d	E_{min}/E_{max}	1:70.3 (0.01)

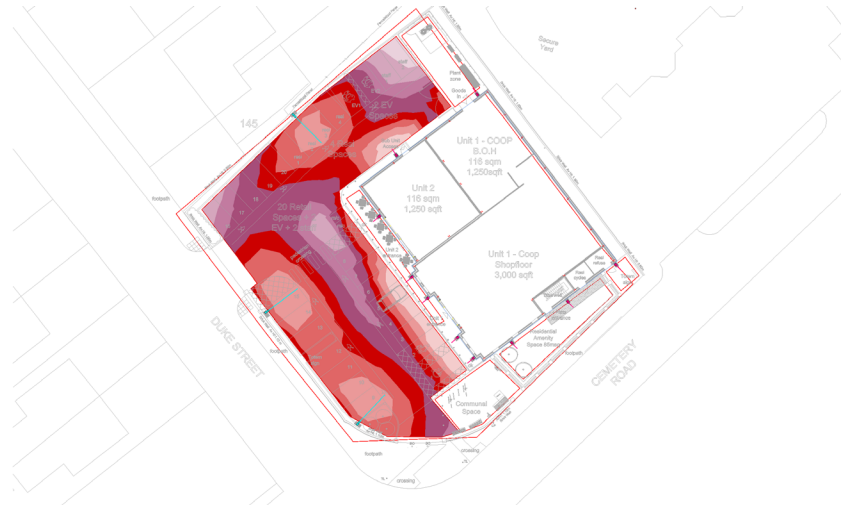
Type No./Make

2 10 x **TRILUX**
 Order No. :
 Luminaire name : Skeo Curv AS MultiLC EB3 05
 Equipment : 1 x 1 x LED ET 28 W / 3500 lm

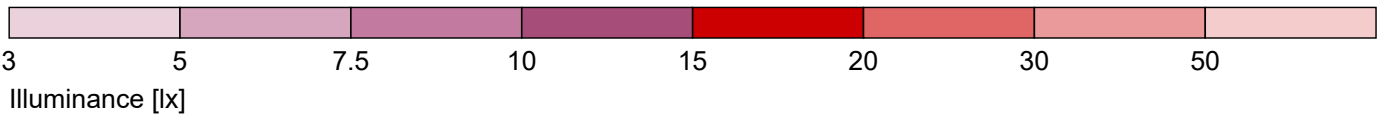
7 3 x
 Order No. :
 Luminaire name : Jovie50-AB2L6S1-68-740-ET-CAB-26
 Equipment : 1 x 1 x LED ET 59 W / 6800 lm

1.2 Summary, Exterior 1

1.2.2 Result overview, Measuring area 1.2



12 17 22 27 32 37 42 47 52 57 62 67 x [m]



General


Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
Maintenance factor	0.80


Total luminous flux	55400 lm
Total power	457 W
Total power per area (1824.25 m ²)	0.25 W/m ²

Illuminance

Average illuminance	\bar{E}_m	19.4 lx
Minimum illuminance	E_{min}	4.2 lx
Maximum illuminance	E_{max}	57.2 lx
Uniformity U_o	E_{min}/\bar{E}_m	1:4.57 (0.22)
Diversity U_d	E_{min}/E_{max}	1:13.5 (0.07)

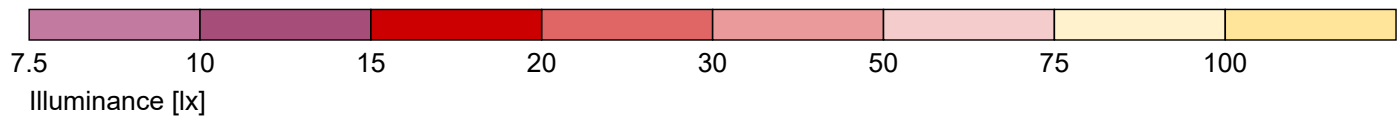
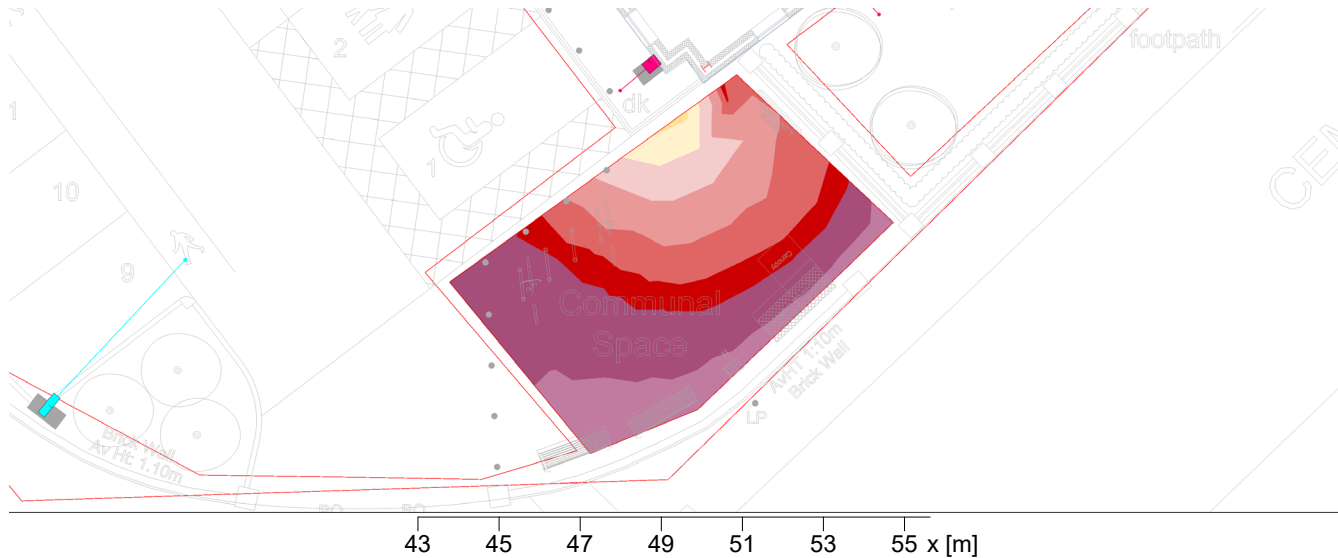
Type No. Make

TRILUX
 2 10 x Order No. :
 Luminaire name : Skeo Curv AS MultiLC EB3 05
 Equipment : 1 x 1 x LED ET 28 W / 3500 lm

7 3 x Order No. :
 Luminaire name : Jovie50-AB2L6S1-68-740-ET-CAB-26
 Equipment : 1 x 1 x LED ET 59 W / 6800 lm

1.2 Summary, Exterior 1

1.2.3 Result overview, Measuring area 1.3



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
Maintenance factor	0.80

Total luminous flux	55400 lm
Total power	457 W
Total power per area (1824.25 m ²)	0.25 W/m ²

Illuminance

Average illuminance	\bar{E}_m	23 lx
Minimum illuminance	E_{min}	9 lx
Maximum illuminance	E_{max}	102 lx
Uniformity U_o	E_{min}/\bar{E}_m	1:2.59 (0.39)
Diversity U_d	E_{min}/E_{max}	1:11.6 (0.09)

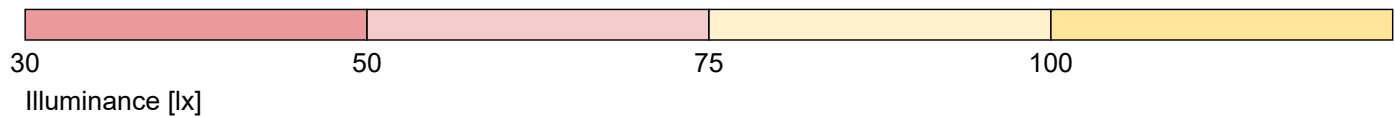
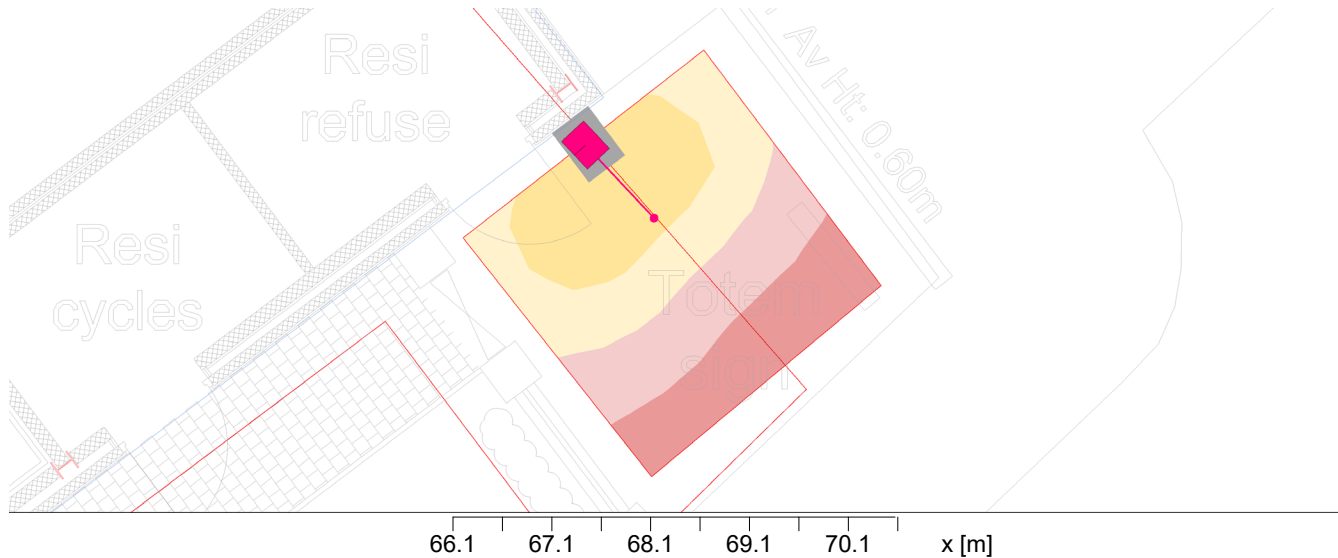
Type No. Make

	2	10 x	TRILUX	Order No.	:
				Luminaire name	: Skeo Curv AS MultiLC EB3 05
				Equipment	: 1 x 1 x LED ET 28 W / 3500 lm

	7	3 x		Order No.	:
				Luminaire name	: Jovie50-AB2L6S1-68-740-ET-CAB-26
				Equipment	: 1 x 1 x LED ET 59 W / 6800 lm

1.2 Summary, Exterior 1

1.2.4 Result overview, Measuring area 1.4



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
Maintenance factor	0.80

Total luminous flux	55400 lm
Total power	457 W
Total power per area (1824.25 m ²)	0.25 W/m ²

Illuminance

Average illuminance	\bar{E}_m	77 lx
Minimum illuminance	E_{min}	32 lx
Maximum illuminance	E_{max}	116 lx
Uniformity U_o	E_{min}/\bar{E}_m	1:2.42 (0.41)
Diversity U_d	E_{min}/E_{max}	1:3.63 (0.28)

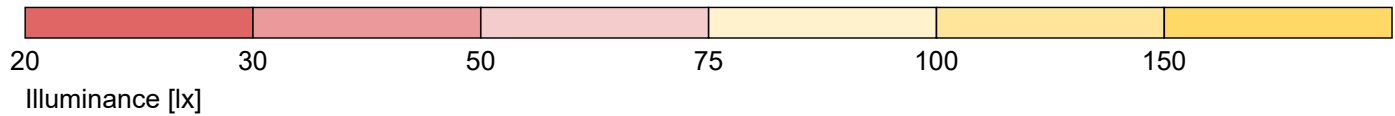
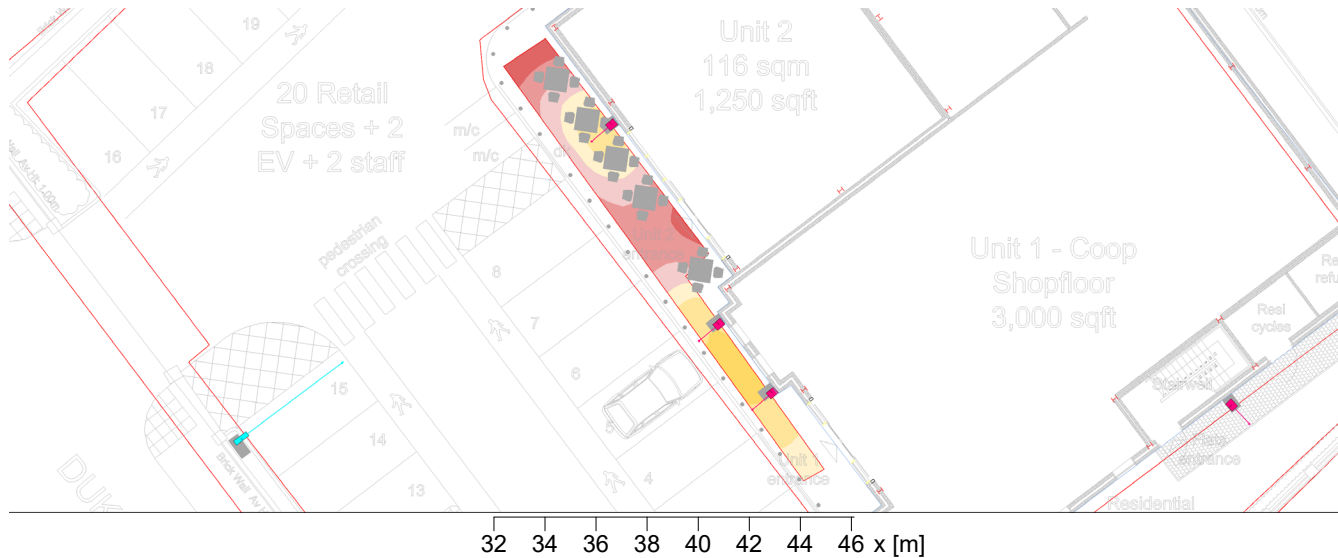
Type No. Make

2	10 x	TRILUX	Order No.	:
			Luminaire name	: Skeo Curv AS MultiLC EB3 05
			Equipment	: 1 x 1 x LED ET 28 W / 3500 lm

7	3 x		Order No.	:
			Luminaire name	: Jovie50-AB2L6S1-68-740-ET-CAB-26
			Equipment	: 1 x 1 x LED ET 59 W / 6800 lm

1.2 Summary, Exterior 1

1.2.5 Result overview, Measuring area 1.5



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
Maintenance factor	0.80

Total luminous flux	55400 lm
Total power	457 W
Total power per area (1824.25 m ²)	0.25 W/m ²

Illuminance

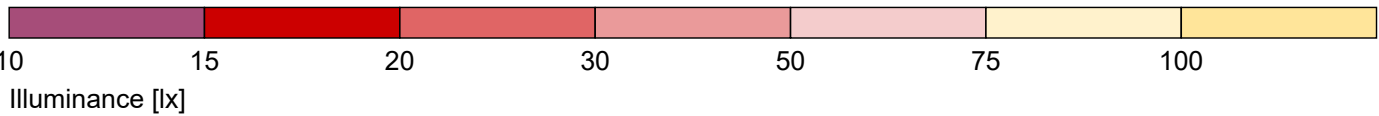
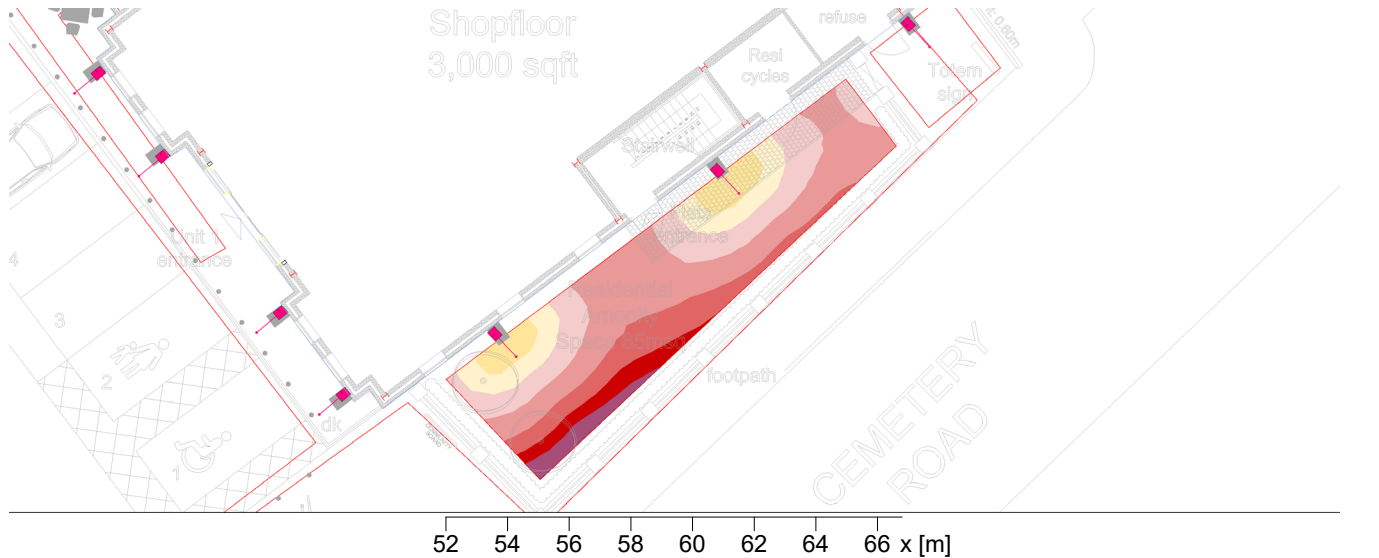
Average illuminance	\bar{E}_m	79 lx
Minimum illuminance	E_{min}	21 lx
Maximum illuminance	E_{max}	163 lx
Uniformity U_o	E_{min}/\bar{E}_m	1:3.79 (0.26)
Diversity U_d	E_{min}/E_{max}	1:7.8 (0.13)

Type No. Make

	2 10 x	TRILUX	Order No. :	
		Luminaire name	:	Skeo Curv AS MultiLC EB3 05
		Equipment	:	1 x 1 x LED ET 28 W / 3500 lm
	7 3 x	Order No. :		
		Luminaire name	:	Jovie50-AB2L6S1-68-740-ET-CAB-26
		Equipment	:	1 x 1 x LED ET 59 W / 6800 lm

1.2 Summary, Exterior 1

1.2.6 Result overview, Measuring area 1.6



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
Maintenance factor	0.80

Total luminous flux	55400 lm
Total power	457 W
Total power per area (1824.25 m ²)	0.25 W/m ²

Illuminance

Average illuminance	\bar{E}_m	51 lx
Minimum illuminance	E_{min}	12 lx
Maximum illuminance	E_{max}	123 lx
Uniformity U_o	E_{min}/\bar{E}_m	1:4.31 (0.23)
Diversity U_d	E_{min}/E_{max}	1:10.5 (0.1)

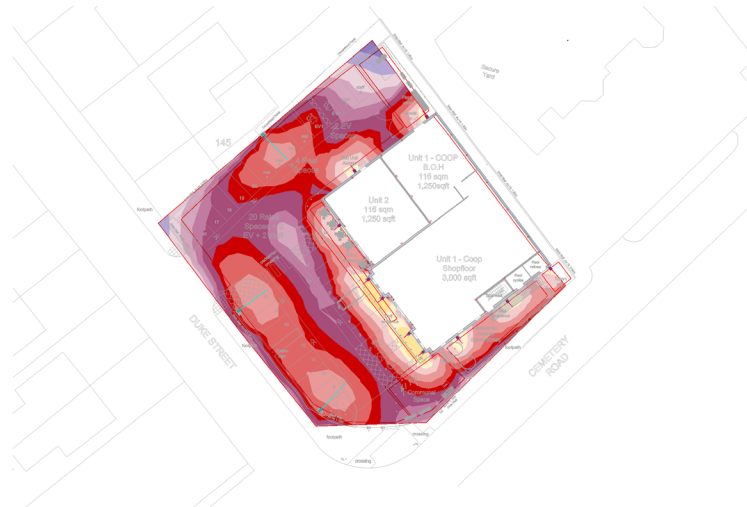
Type No. Make

2 10 x **TRILUX**
 Order No. :
 Luminaire name : Skeo Curv AS MultiLC EB3 05
 Equipment : 1 x 1 x LED ET 28 W / 3500 lm

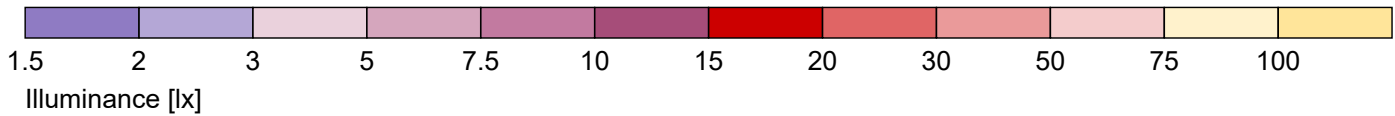
7 3 x
 Order No. :
 Luminaire name : Jovie50-AB2L6S1-68-740-ET-CAB-26
 Equipment : 1 x 1 x LED ET 59 W / 6800 lm

1.2 Summary, Exterior 1

1.2.7 Result overview, Evaluation area 1



9 14 24 34 44 54 64 74 x [m]



General

Calculation algorithm used	Average indirect fraction
Maintenance factor	0.80
Total luminous flux	55400.00 lm
Total power	457.0 W
Total power per area (1824.25 m ²)	0.25 W/m ² (0.99 W/m ² /100lx)

Evaluation area 1

Reference plane 1.1

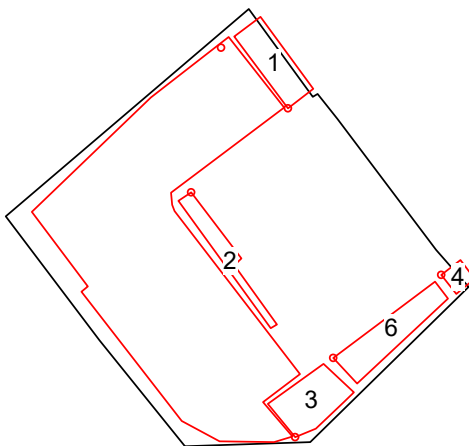
	Horizontal
\bar{E}_m	25.3 lx
E_{min}	1.7 lx
$E_{min}/\bar{E}_m (U_0)$	0.07
$E_{min}/E_{max} (U_d)$	0.01
Position	0.00 m

Type No./Make

	2 10 x	TRILUX	Order No.	:
			Luminaire name	: Skeo Curv AS MultiLC EB3 05
			Equipment	: 1 x 1 x LED ET 28 W / 3500 lm
	7 3 x		Order No.	:
			Luminaire name	: Jovie50-AB2L6S1-68-740-ET-CAB-26
			Equipment	: 1 x 1 x LED ET 59 W / 6800 lm

1.2 Summary, Exterior 1

1.2.8 Result overview, Group 1



Horizontal illuminance

No.	Measuring surface	Grid	\bar{E}_m	E_{min}	E_{max}	U_o	U_d
1.1	M 1.1	8 x 21	18 lx	2 lx	112 lx	0.09	0.01
1.2	M 1.2	16 x 12	19 lx	4 lx	57 lx	0.22	0.07
1.3	M 1.3	10 x 7	23 lx	9 lx	102 lx	0.39	0.09
1.4	M 1.4	7 x 7	77 lx	32 lx	116 lx	0.41	0.28
1.5	M 1.5	54 x 7	79 lx	21 lx	163 lx	0.26	0.13
1.6	M 1.6	8 x 28	51 lx	12 lx	123 lx	0.23	0.10
Summary			24 lx	2 lx	163 lx	0.07	0.01