



DWD-5994-Mulberry Waste

Installation : Proposed Lighting

Project number :

Customer :

Processed by : DWD

Date : 02.04.2025

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.

Object : DWD-5994-Mulberry Waste
Installation : Proposed Lighting
Project number :
Date : 02.04.2025



1 Exterior 1

1.1 Description, Exterior 1

1.1.1 Luminaire data/Room elements

Product data:

Type No.\Make

		NVC Lighting	
2	8 x	Order No.	: NLX150/740 (LYNX)/Setting 1
		Luminaire name	: LYNX
		Equipment	: 1 x LED MODULE 146.8 W / 19810 lm
3	13 x	Order No.	: NBR18-28/830-40-60 (BROOKLYN)/Setting 17.5W
		Luminaire name	: BROOKLYN
		Equipment	: 1 x LED MODULE 17.5 W / 2263 lm

Object : DWD-5994-Mulberry Waste
 Installation : Proposed Lighting
 Project number :
 Date : 02.04.2025

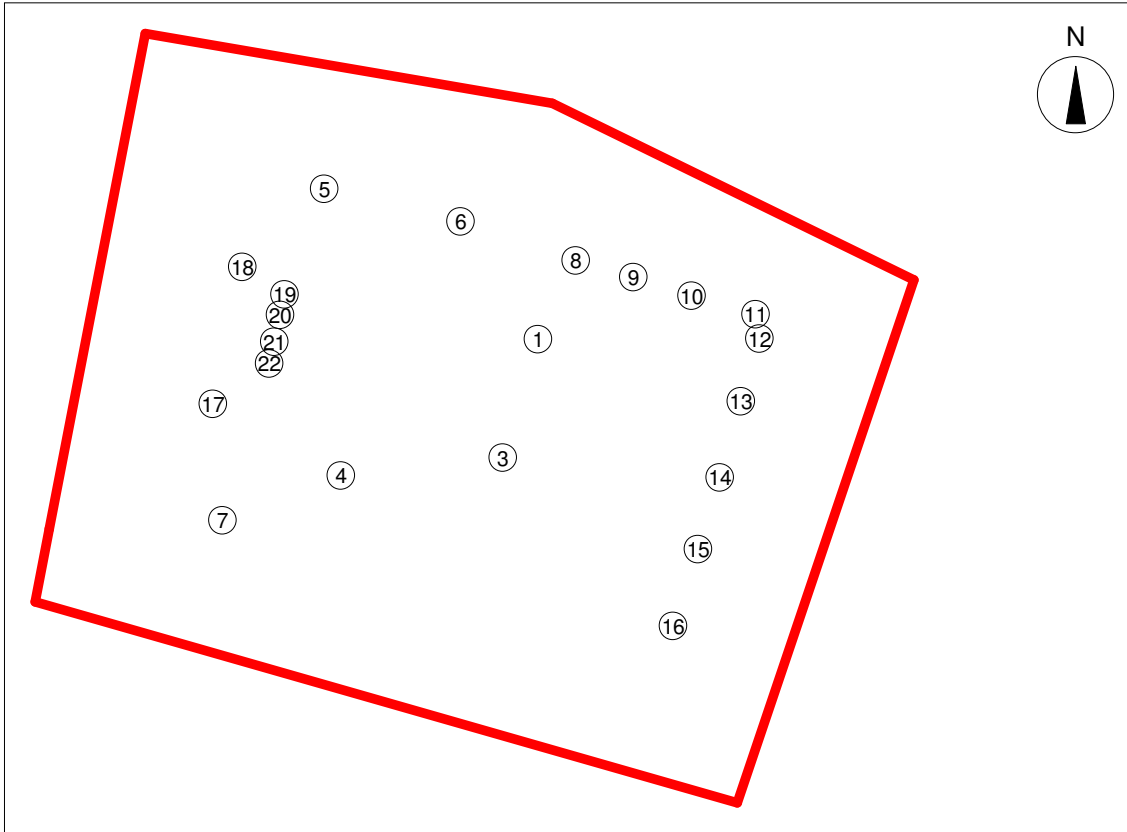


1 Exterior 1

1.1 Description, Exterior 1

1.1.1 Luminaire data/Room elements

Floor with luminaire and sensor positions:



No.	Centre point			Rotation angle			Target coordinates		
	X [m]	Y [m]	Z [m]	Z [°]	C0 [°]	C90 [°]	Xa [m]	Ya [m]	Za [m]
NVC Lighting LYNX NLX150/740 (LYNX)									
1xSetting 1									
1	60.73	46.99	5.97	73.82	0.00	0.00	52.54	49.37	0.00
3	56.39	32.37	5.97	73.82	0.00	0.00	48.21	34.74	0.00
4	36.36	30.12	5.97	345.45	0.00	0.00	38.50	38.36	0.00
5	34.33	65.52	7.97	163.68	0.00	0.00	31.14	54.60	0.00
6	51.15	61.51	7.97	163.68	0.00	0.00	47.96	50.59	0.00
7	21.77	24.58	7.97	345.45	0.00	0.00	24.62	35.59	0.00
17	20.59	38.98	7.97	256.20	0.00	0.00	31.64	36.26	0.00
18	24.22	55.87	7.97	256.20	0.00	0.00	35.27	53.15	0.00
NVC Lighting BROOKLYN NBR18-28/830-40-60 (BROOKLYN)									
1xSetting 17.5W									
8	65.36	56.66	2.87	344.29	0.00	0.00	67.68	56.01	0.00
9	72.55	54.65	2.87	344.29	0.00	0.00	74.87	54.00	0.00
10	79.73	52.35	2.87	344.29	0.00	0.00	82.04	51.69	0.00
11	87.65	50.07	2.87	344.29	0.00	0.00	89.97	49.42	0.00
12	88.07	47.07	2.87	254.54	0.00	0.00	87.43	44.75	0.00
13	85.76	39.34	2.87	254.54	0.00	0.00	85.12	37.02	0.00
14	83.17	29.91	2.87	254.54	0.00	0.00	82.53	27.59	0.00
15	80.48	21.05	2.87	254.54	0.00	0.00	79.84	18.73	0.00
16	77.43	11.55	2.87	254.54	0.00	0.00	76.79	9.23	0.00
19	29.42	52.49	1.92	254.54	0.00	0.00	28.99	50.94	0.00
20	28.85	49.95	1.92	254.54	0.00	0.00	28.42	48.40	0.00
21	28.17	46.64	1.92	254.54	0.00	0.00	27.75	45.09	0.00
22	27.54	43.94	1.92	254.54	0.00	0.00	27.11	42.39	0.00

Object : DWD-5994-Mulberry Waste
 Installation : Proposed Lighting
 Project number :
 Date : 02.04.2025



1 Exterior 1

1.1 Description, Exterior 1

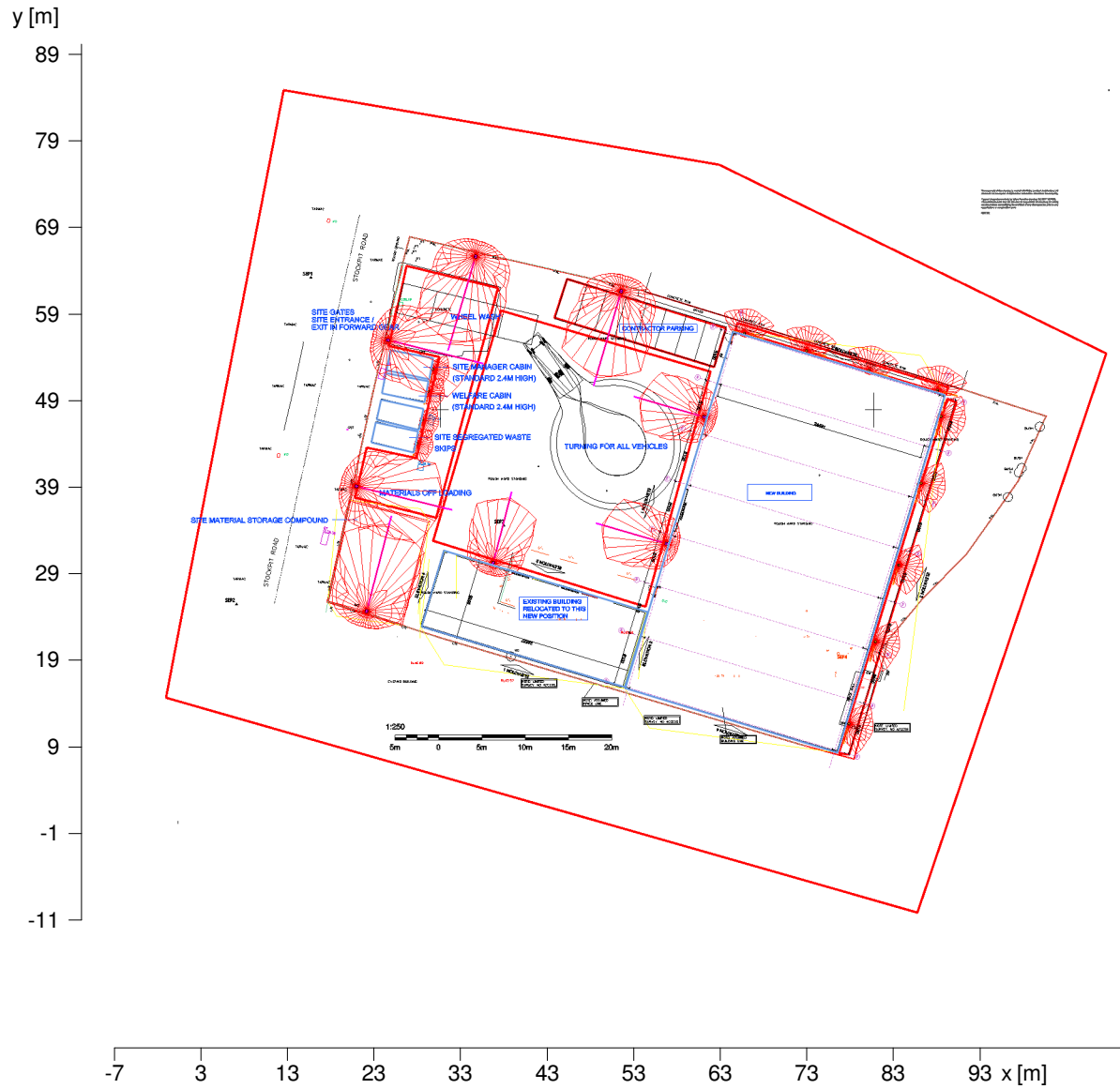
1.1.1 Luminaire data/Room elements

Measuring surface

No.	xm[m]	ym[m]	zm[m]	Length	Width	z axis	Rotation angle	
							L axis	Q axis
Ref. plane 1.1	0.33	23.61	0.00	116.91	101.17	344.04	0.00	0.00
M 6	43.45	58.45	0.00	19.81	10.19	342.83	0.00	0.00
M 7	29.44	32.69	0.00	33.23	34.60	342.77	0.00	0.00
M 9	64.32	57.02	0.00	24.57	8.24	343.07	0.00	0.00
M 10	88.79	49.09	0.00	19.76	41.37	338.55	0.00	0.00
M 11	26.37	64.44	0.00	17.01	29.24	346.38	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	51.62	15.68	0.00	37.09	48.71	343.10	0.00	0.00	50
A 2	24.08	52.38	0.00	5.48	3.48	347.98	0.00	0.00	50
A 3	23.52	49.73	0.00	5.48	3.48	347.98	0.00	0.00	50
A 5	22.31	44.05	0.00	5.51	3.59	346.61	0.00	0.00	50
A 6	22.93	46.67	-0.00	5.51	3.59	346.61	0.00	0.00	50
A 7	28.11	22.79	0.00	26.14	15.78	343.40	0.00	0.00	50



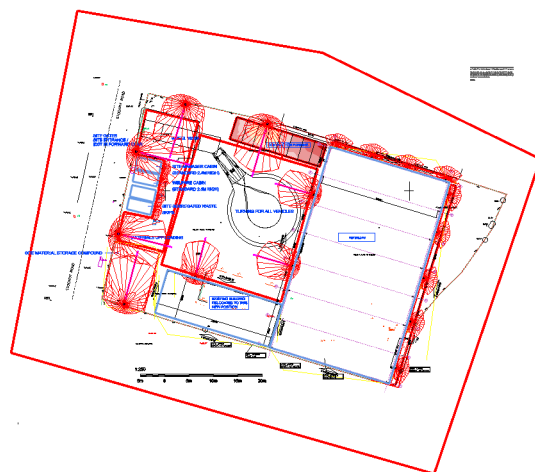
Object : DWD-5994-Mulberry Waste
Installation : Proposed Lighting
Project number :
Date : 02.04.2025



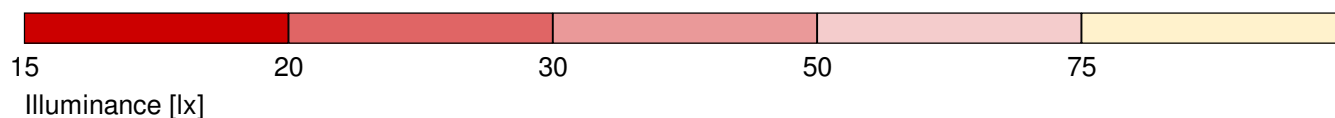
1 Exterior 1

1.2 Summary, Exterior 1

1.2.1 Result overview, Measuring area 6



-7 3 13 23 33 43 53 63 73 83 93 x [m]



General

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

Total luminous flux	187899 lm
Total power	1401.9 W
Total power per area (6963.41 m²)	0.20 W/m²

Illuminance

Average illuminance	$\bar{E}_m$	57.6 lx
Minimum illuminance	E_{min}	17.2 lx
Maximum illuminance	E_{max}	94.3 lx
Uniformity U_0	$E_{min}/\bar{E}_m$	1:3.36 (0.3)
Diversity U_d	E_{min}/E_{max}	1:5.49 (0.18)

Type No. Make

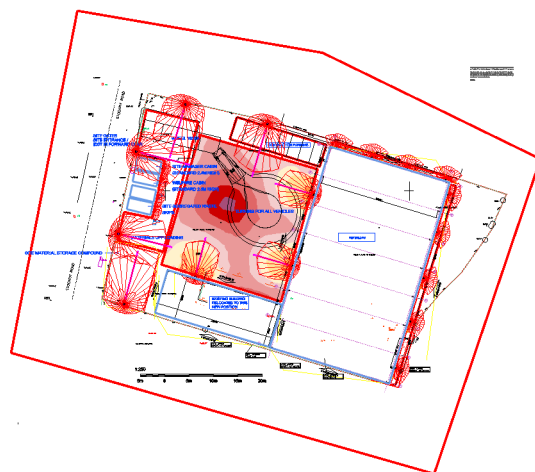
NVC Lighting	
2 8 x	Order No. : NLX150/740 (LYNX)/Setting 1
	Luminaire name : LYNX
	Equipment : 1 x LED MODULE 146.8 W / 19810 lm
3 13 x	Order No. : NBR18-28/830-40-60 (BROOKLYN)/Setting 17.5W
	Luminaire name : BROOKLYN
	Equipment : 1 x LED MODULE 17.5 W / 2263 lm

Object : DWD-5994-Mulberry Waste
Installation : Proposed Lighting
Project number :
Date : 02.04.2025

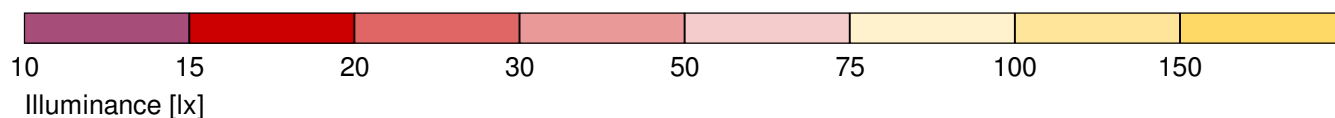


1.2 Summary, Exterior 1

1.2.2 Result overview, Measuring area 7



-7 3 13 23 33 43 53 63 73 83 93 x [m]



General

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

Total luminous flux	187899 lm
Total power	1401.9 W
Total power per area (6963.41 m ²)	0.20 W/m ²

Illuminance

Average illuminance	$\bar{E}_m$	59 lx
Minimum illuminance	E_{min}	14 lx
Maximum illuminance	E_{max}	174 lx
Uniformity U_0	$E_{min}/\bar{E}_m$	1:4.19 (0.24)
Diversity U_d	E_{min}/E_{max}	1:12.3 (0.08)

Type No. Make

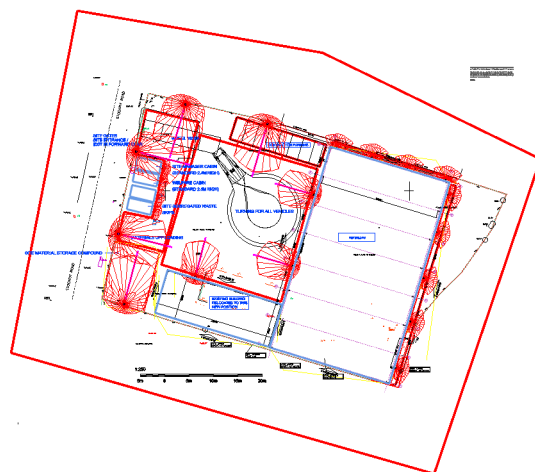
NVC Lighting	
2 8 x	Order No. : NLX150/740 (LYNX)/Setting 1
	Luminaire name : LYNX
	Equipment : 1 x LED MODULE 146.8 W / 19810 lm
3 13 x	Order No. : NBR18-28/830-40-60 (BROOKLYN)/Setting 17.5W
	Luminaire name : BROOKLYN
	Equipment : 1 x LED MODULE 17.5 W / 2263 lm

Object : DWD-5994-Mulberry Waste
 Installation : Proposed Lighting
 Project number :
 Date : 02.04.2025

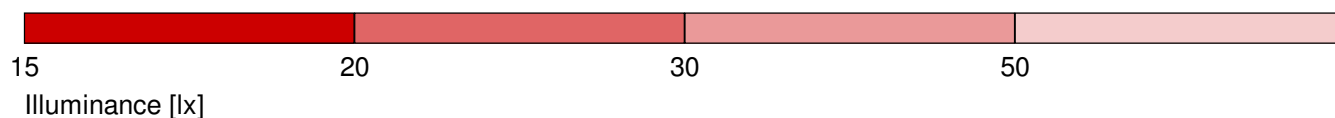


1.2 Summary, Exterior 1

1.2.3 Result overview, Measuring area 9



-7 3 13 23 33 43 53 63 73 83 93 x [m]



General

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

Total luminous flux	187899 lm
Total power	1401.9 W
Total power per area (6963.41 m²)	0.20 W/m²

Illuminance

Average illuminance	E_m	40.5 lx
Minimum illuminance	E_{min}	19.8 lx
Maximum illuminance	E_{max}	64 lx
Uniformity U_0	E_{min}/E_m	1:2.05 (0.49)
Diversity U_d	E_{min}/E_{max}	1:3.24 (0.31)

Type No. Make

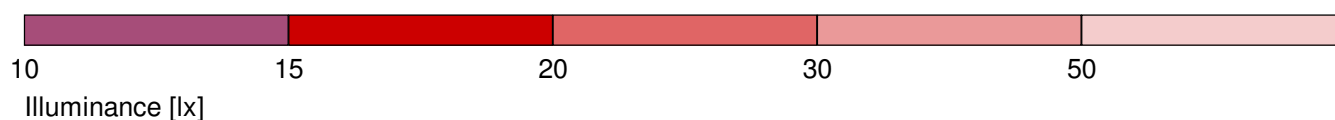
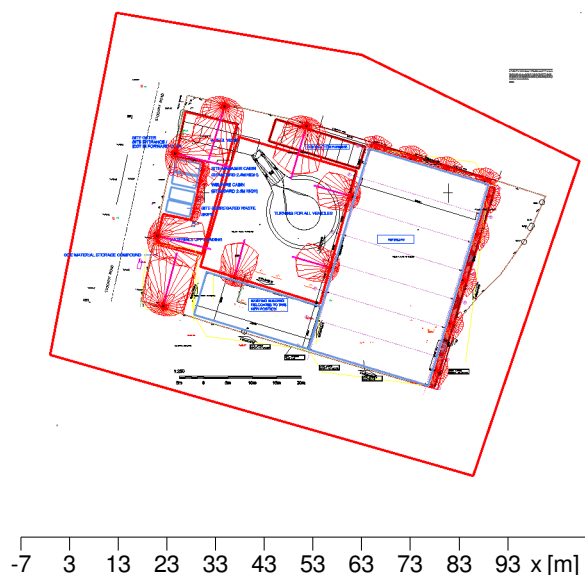
NVC Lighting	
2 8 x	Order No. : NLX150/740 (LYNX)/Setting 1
	Luminaire name : LYNX
	Equipment : 1 x LED MODULE 146.8 W / 19810 lm
3 13 x	Order No. : NBR18-28/830-40-60 (BROOKLYN)/Setting 17.5W
	Luminaire name : BROOKLYN
	Equipment : 1 x LED MODULE 17.5 W / 2263 lm

Object : DWD-5994-Mulberry Waste
 Installation : Proposed Lighting
 Project number :
 Date : 02.04.2025



1.2 Summary, Exterior 1

1.2.4 Result overview, Measuring area 10



General

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

Total luminous flux	187899 lm
Total power	1401.9 W
Total power per area (6963.41 m²)	0.20 W/m²

Illuminance

Average illuminance	$\bar{E}_m$	33.4 lx
Minimum illuminance	E_{min}	11.7 lx
Maximum illuminance	E_{max}	60.5 lx
Uniformity U_0	$E_{min}/\bar{E}_m$	1:2.85 (0.35)
Diversity U_d	E_{min}/E_{max}	1:5.16 (0.19)

Type No. Make

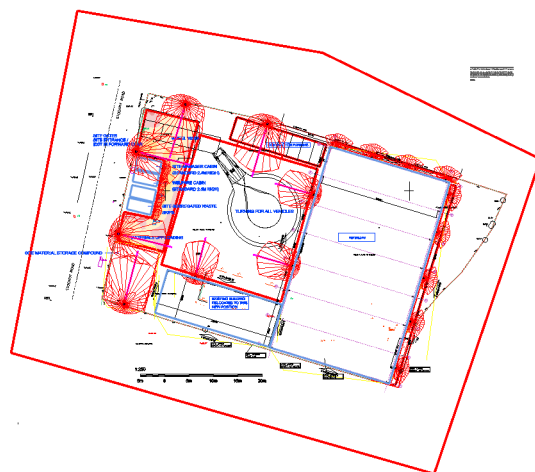
NVC Lighting	
2 8 x	Order No. : NLX150/740 (LYNX)/Setting 1
	Luminaire name : LYNX
	Equipment : 1 x LED MODULE 146.8 W / 19810 lm
3 13 x	Order No. : NBR18-28/830-40-60 (BROOKLYN)/Setting 17.5W
	Luminaire name : BROOKLYN
	Equipment : 1 x LED MODULE 17.5 W / 2263 lm

Object : DWD-5994-Mulberry Waste
Installation : Proposed Lighting
Project number :
Date : 02.04.2025

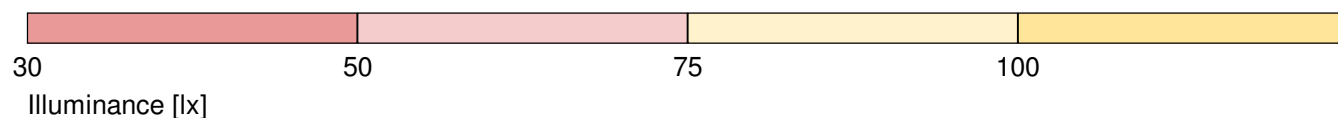


1.2 Summary, Exterior 1

1.2.5 Result overview, Measuring area 11



-7 3 13 23 33 43 53 63 73 83 93 x [m]



General

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

Total luminous flux	187899 lm
Total power	1401.9 W
Total power per area (6963.41 m ²)	0.20 W/m ²

Illuminance

Average illuminance	$\bar{E}_m$	88 lx
Minimum illuminance	E_{min}	46 lx
Maximum illuminance	E_{max}	149 lx
Uniformity U_0	$E_{min}/\bar{E}_m$	1:1.9 (0.53)
Diversity U_d	E_{min}/E_{max}	1:3.23 (0.31)

Type No. Make

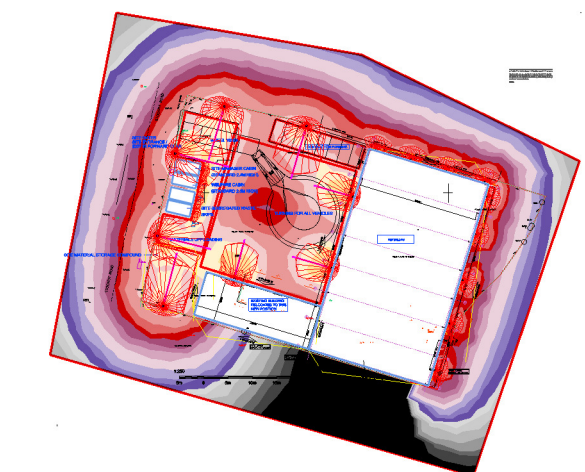
NVC Lighting	
2 8 x	Order No. : NLX150/740 (LYNX)/Setting 1
	Luminaire name : LYNX
	Equipment : 1 x LED MODULE 146.8 W / 19810 lm
3 13 x	Order No. : NBR18-28/830-40-60 (BROOKLYN)/Setting 17.5W
	Luminaire name : BROOKLYN
	Equipment : 1 x LED MODULE 17.5 W / 2263 lm

Object : DWD-5994-Mulberry Waste
Installation : Proposed Lighting
Project number :
Date : 02.04.2025

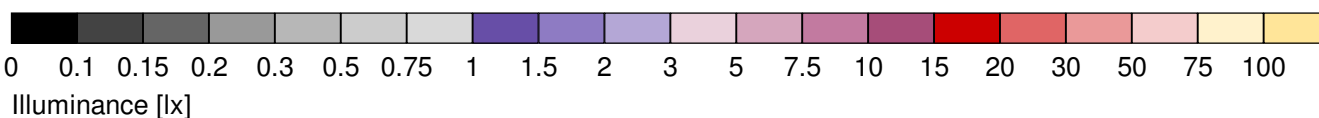


1.2 Summary, Exterior 1

1.2.6 Result overview, Evaluation area 1



-7 3 13 23 33 43 53 63 73 83 93 x [m]



General

Calculation algorithm used
Maintenance factor

Average indirect fraction
0.80

Total lamp luminous flux
Luminaire luminous flux
Total power
Total power per area (6963.41 m²)

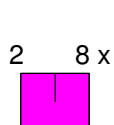
187899 lm
187891 lm
1401.9 W
0.20 W/m² (0.91 W/m²/100lx)

Evaluation area 1

Reference plane 1.1

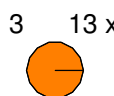
Horizontal
 $\bar{E}_m$ 22.2 lx
 E_{min} 0 lx
 $E_{min}/\bar{E}_m (U_0)$ 0.00
 $E_{min}/E_{max} (U_d)$ 0.00
Position 0.00 m

Type No.\Make



NVC Lighting

Order No. : NLX150/740 (LYNX)/Setting 1
Luminaire name : LYNX
Equipment : 1 x LED MODULE 146.8 W / 19810 lm



Order No. : NBR18-28/830-40-60 (BROOKLYN)/Setting 17.5W
Luminaire name : BROOKLYN
Equipment : 1 x LED MODULE 17.5 W / 2263 lm

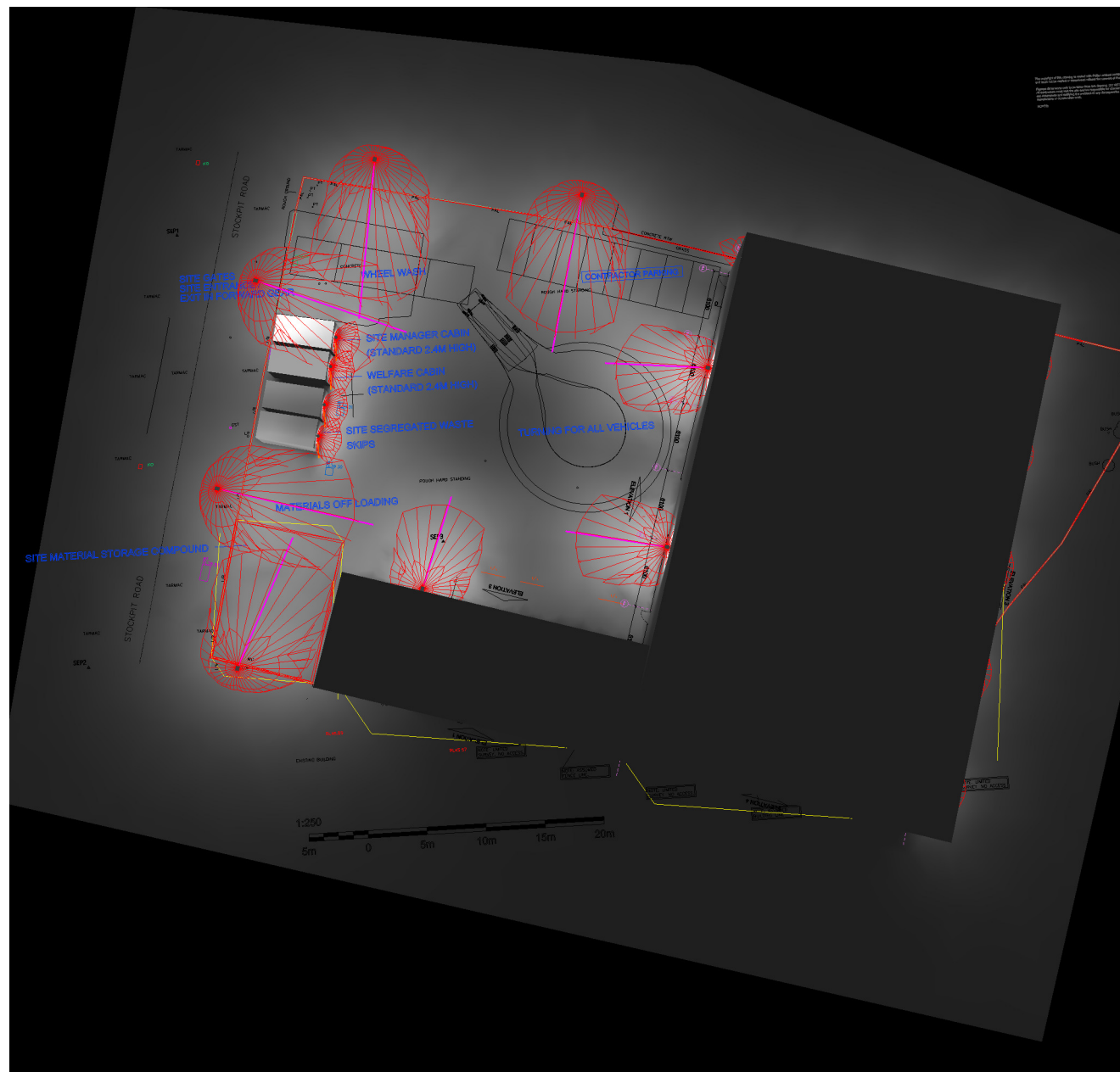
Object : DWD-5994-Mulberry Waste
Installation : Proposed Lighting
Project number :
Date : 02.04.2025



1 Exterior 1

1.3 Calculation results, Exterior 1

1.3.1 3D luminance, View 1



Luminance in the scene

Minimum: : 0 cd/m²
Maximum: : 1130 cd/m²

1.3 Calculation results, Exterior 1

1.3.2 3D pseudo colours, View 1 (E)

