

Access Path

Installation : Barnsley Fire station

Project number : PROJ-000397

Customer : Shearstone Mechanical

Processed by : IS

Date : 14.06.2021

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.

-please put your own address here-

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1 Luminaire data

1.1 ASD Lighting PLC, HWD-#4LED430-M1 Osram Rev 1 (HWD-#4LED430-M1)

1.1.1 Data sheet

Manufacturer: ASD Lighting PLC

HWD-#4LED430-M1

HWD-#4LED430-M1 Osram Rev 1

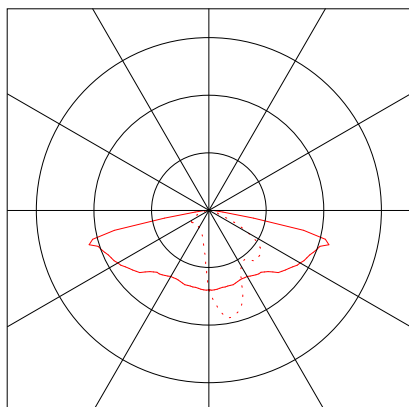
Luminaire data

Luminaire efficiency : 100%
Luminaire efficacy : 78.72 lm/W
Classification : A30 ↓100.0% ↑0.0%
CIE Flux Codes : 33 65 93 100 100
UGR 4H 8H : 30.4 / 13.6
Power : 6 W
Luminous flux : 472.3 lm

Equipped with

Quantity : 4
Designation : LED
Colour : 4000
Luminous flux : 118.1 lm
Colour reproduction : 72

Dimensions : 600 mm x 235 mm x 130 mm



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1.1 ASD Lighting PLC, HWD-#4LED430-M1 Osram Rev 1 (HWD-#4LED430-M1)

1.1.2 Glare Rating (UGR)

Reflectance of										
Ceiling	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Floor	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2

Room dimension		Viewed crosswise					Viewed endwise				
x	y										
2H	2H	21.1	22.9	21.5	23.2	23.5	<10.0	11.4	<10.0	11.8	12.1
	3H	25.3	27.0	25.7	27.3	27.6	11.6	13.2	11.9	13.6	13.9
	4H	27.8	29.4	28.2	29.7	30.1	12.2	13.8	12.6	14.1	14.5
	6H	29.0	30.5	29.4	30.9	31.3	12.4	13.9	12.8	14.2	14.6
	8H	29.0	30.5	29.4	30.8	31.2	12.3	13.8	12.7	14.1	14.5
	12H	29.0	30.4	29.4	30.8	31.2	12.3	13.7	12.7	14.1	14.5
4H	2H	21.7	23.3	22.1	23.7	24.0	10.2	11.8	10.6	12.1	12.5
	3H	26.2	27.6	26.6	28.0	28.4	12.4	13.8	12.8	14.2	14.6
	4H	29.0	30.2	29.4	30.6	31.0	13.3	14.5	13.7	14.9	15.4
	6H	30.4	31.5	30.8	31.9	32.4	13.6	14.7	14.0	15.1	15.5
	8H	30.4	31.5	30.9	31.9	32.4	13.6	14.6	14.0	15.0	15.5
	12H	30.4	31.4	30.9	31.8	32.3	13.6	14.5	14.0	15.0	15.4
8H	4H	28.9	29.9	29.4	30.4	30.8	13.6	14.6	14.0	15.0	15.5
	6H	30.4	31.2	30.8	31.7	32.2	13.9	14.8	14.4	15.3	15.8
	8H	30.5	31.3	31.0	31.8	32.2	14.1	14.8	14.6	15.3	15.8
	12H	30.5	31.1	31.0	31.6	32.1	14.1	14.7	14.6	15.2	15.7
12H	4H	28.9	29.9	29.4	30.3	30.8	13.7	14.6	14.1	15.0	15.5
	6H	30.4	31.2	30.9	31.7	32.2	14.1	14.8	14.6	15.4	15.8
	8H	30.5	31.1	31.0	31.6	32.1	14.2	14.8	14.7	15.3	15.8

Distance between luminaires: 0.25

Due to missing symmetry characteristics the values apply only to the indicated line of sight.

Manufacturer	: ASD Lighting PLC	Efficiency factor	: 100%
Order number	: HWD-#4LED430-M1	Luminaire efficacy	: 78.72 lm/W (A30)
Luminaire name	: HWD-#4LED430-M1 Osram Rev 1	Light distribution	: asymmetric
Equipment	: 4 x LED / 118.075 lm	Beam Angle	: 77.9° C0
Dimensions	: L 600 mm x W 235 mm x H 130 mm		: 20.4° C90
File name	: HWD-#4LED0430-M1 (6w).ldt		: 77.9° C180
			-- C270

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2 Exterior 1

2.1 Description, Exterior 1

2.1.1 Luminaire data/Room elements

Product data:

Type No.\Make

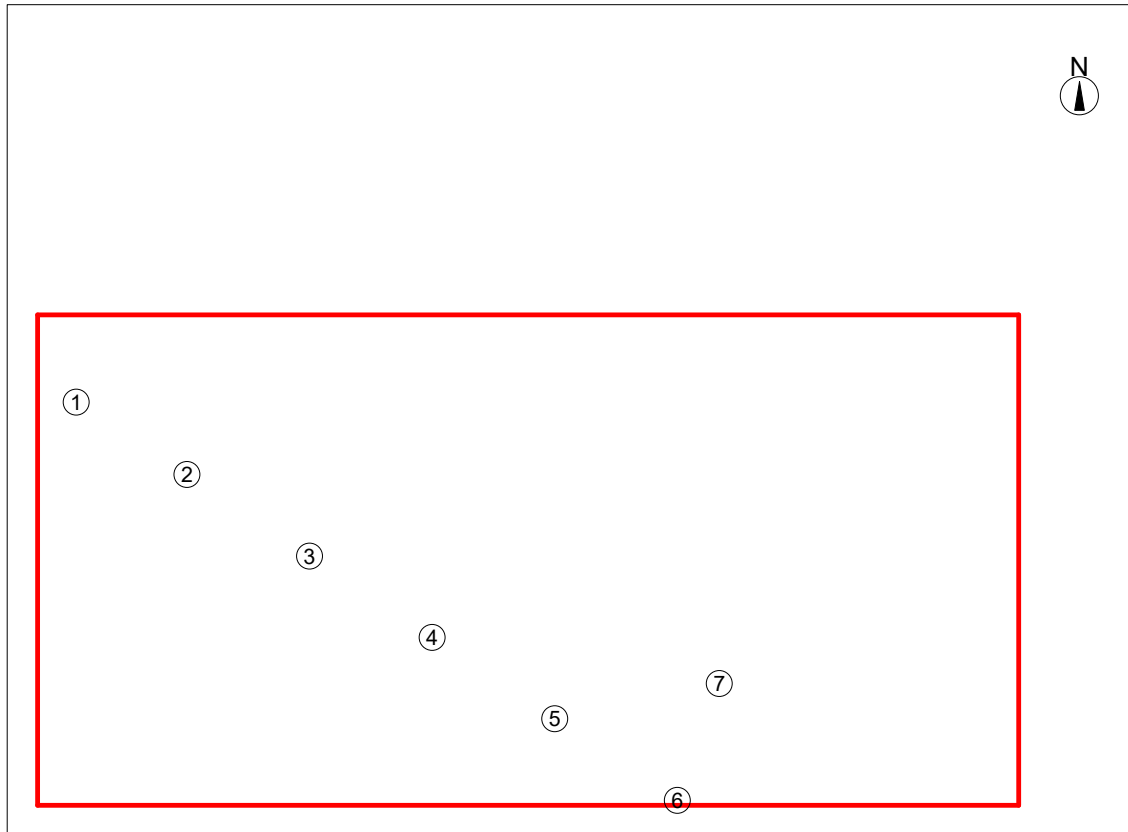
		ASD Lighting PLC
1	7	Order No. : HWD-#4LED430-M1
		Luminaire name : HWD-#4LED430-M1 Osram Rev 1
		Equipment : 4 x LED / 118.075 lm

2 Exterior 1

2.1 Description, Exterior 1

2.1.1 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]
ASD Lighting PLC HWD-#4LED430-M1 Osram Rev 1 HWD-#4LED430-M1									
1	3.16	32.87	2.93	352.16	0.00	0.00	3.16	32.87	0.00
2	12.18	26.96	2.93	327.57	0.00	0.00	12.18	26.96	0.00
3	22.18	20.33	2.93	327.57	0.00	0.00	22.18	20.33	0.00
4	32.18	13.68	2.93	327.57	0.00	0.00	32.18	13.68	0.00
5	42.17	7.04	2.93	327.57	0.00	0.00	42.17	7.04	0.00
6	52.17	0.40	2.93	327.57	0.00	0.00	52.17	0.40	0.00
7	55.58	9.91	2.93	102.50	0.00	0.00	55.58	9.91	0.00

Structural elements

Measuring surface

No.	xm[m]	ym[m]	zm[m]	Length	Width	z axis	Rotation angle	
							L axis	Q axis
Ref. plane 1.1	0.00	40.00	0.00	80.00	40.00	270.00	0.00	0.00
Access Path								
M 1	1.24	31.74	0.00	62.18	64.23	42.47	0.00	0.00

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2 Exterior 1

2.1 Description, Exterior 1

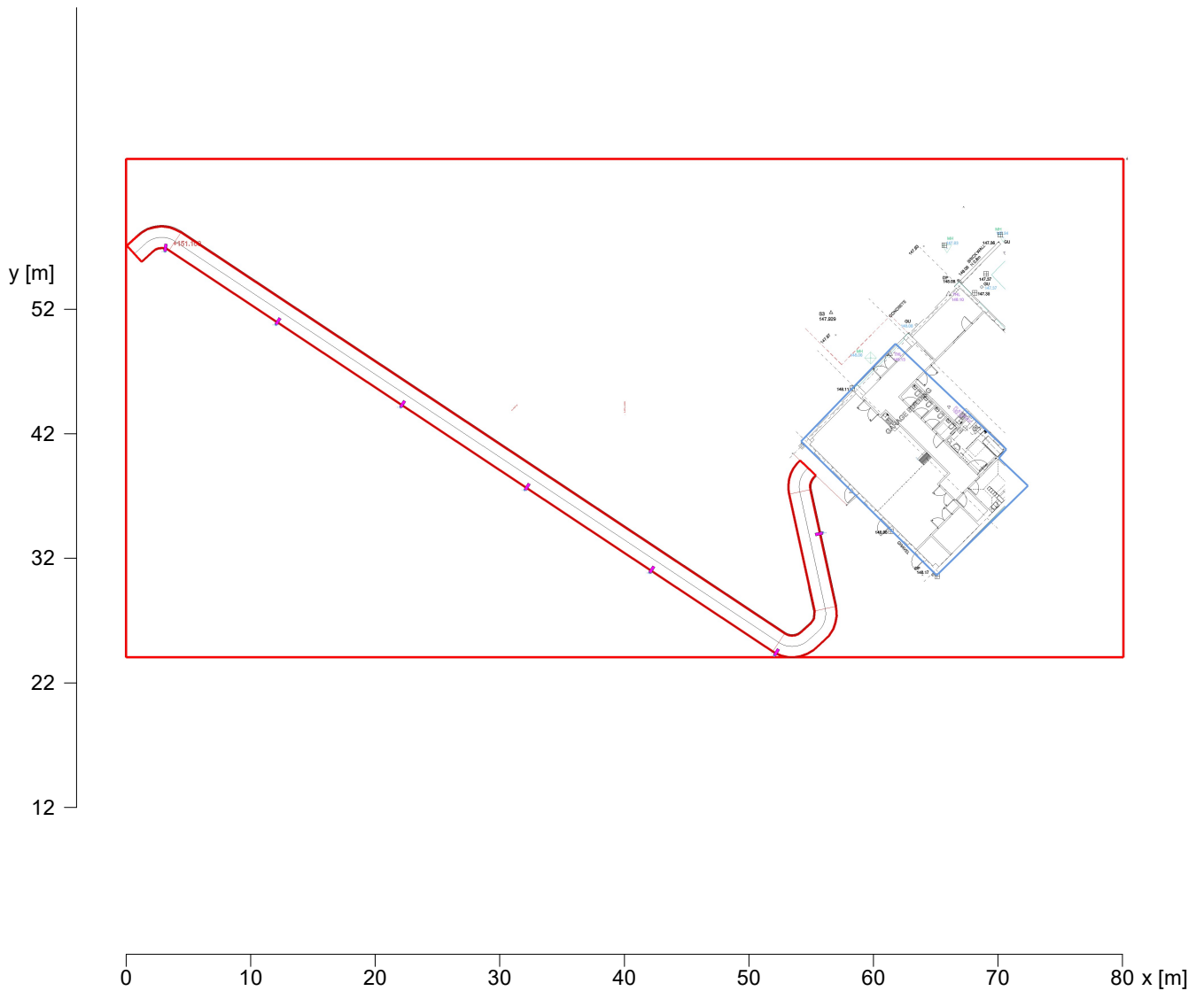
2.1.1 Luminaire data/Room elements

Others

No.	xm[m]	ym[m]	zm[m]	Length	Width	z axis	Rotation angle		rho[%]
							L axis	Q axis	
A 1	54.15	17.33	0.00	18.90	18.86	315.34	0.00	0.00	50
A 1	3.11	32.58	0.00	0.05	0.05	0.00	0.00	0.00	50
A 2	12.01	26.69	-0.00	0.05	0.05	0.00	0.00	0.00	50
A 3	22.01	20.07	-0.00	0.05	0.05	0.00	0.00	0.00	50
A 4	42.00	6.79	0.00	0.05	0.05	0.00	0.00	0.00	50
A 5	51.99	0.14	0.00	0.05	0.05	0.00	0.00	0.00	50
A 6	55.91	10.01	0.00	0.05	0.05	0.00	0.00	0.00	50
A 7	31.98	13.43	0.00	0.05	0.05	0.00	0.00	0.00	50

2.1 Description, Exterior 1

2.1.2 Floor plan

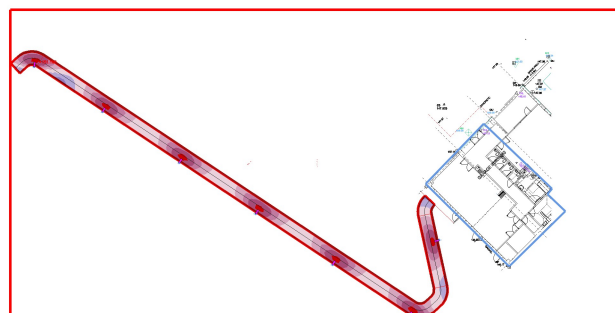


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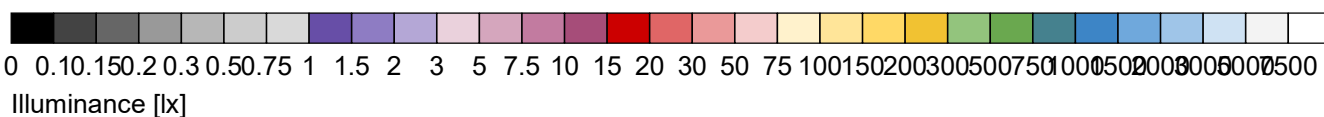
2 Exterior 1

2.2 Summary, Exterior 1

2.2.1 Result overview, Access Path



0 10 20 30 40 50 60 70 80 x [m]



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
Height (phot centre) [m]:	2.93 m
Maintenance factor	0.80

Total luminous flux of all lamps	3306.1 lm
Total power	42 W
Total power per area (3200.00 m²)	0.01 W/m²

Illuminance

Average illuminance	Em	6.7 lx
Minimum illuminance	Emin	1.8 lx
Maximum illuminance	Emax	16.2 lx
Uniformity Uo	Emin/Em	1:3.83 (0.26)
Diversity Ud	Emin/Emax	1:9.25 (0.11)

Type No. Make

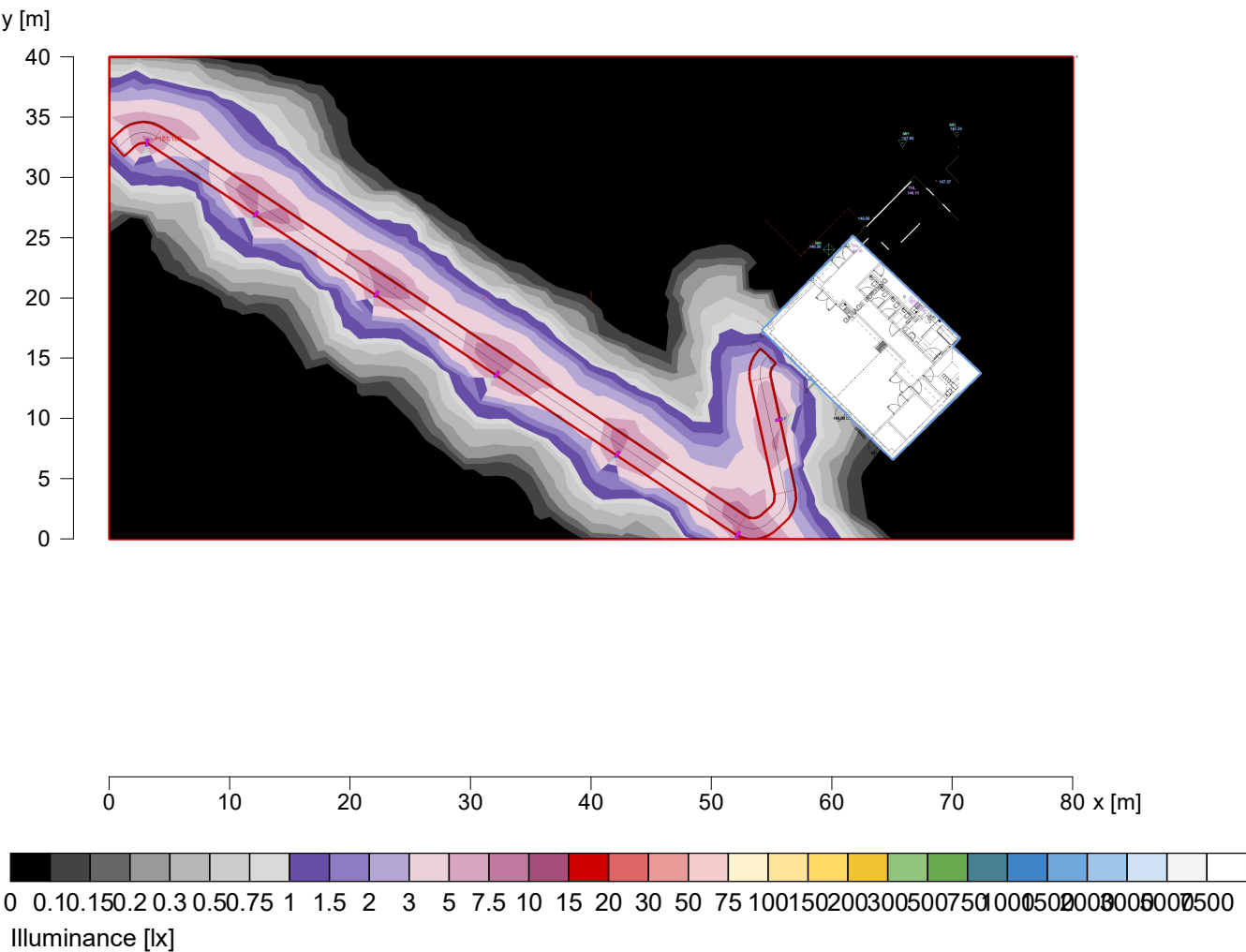
ASD Lighting PLC

1	7	Order No.	: HWD-#4LED430-M1
		Luminaire name	: HWD-#4LED430-M1 Osram Rev 1
		Equipment	: 4 x LED / 118.075 lm

2 Exterior 1

2.3 Calculation results, Exterior 1

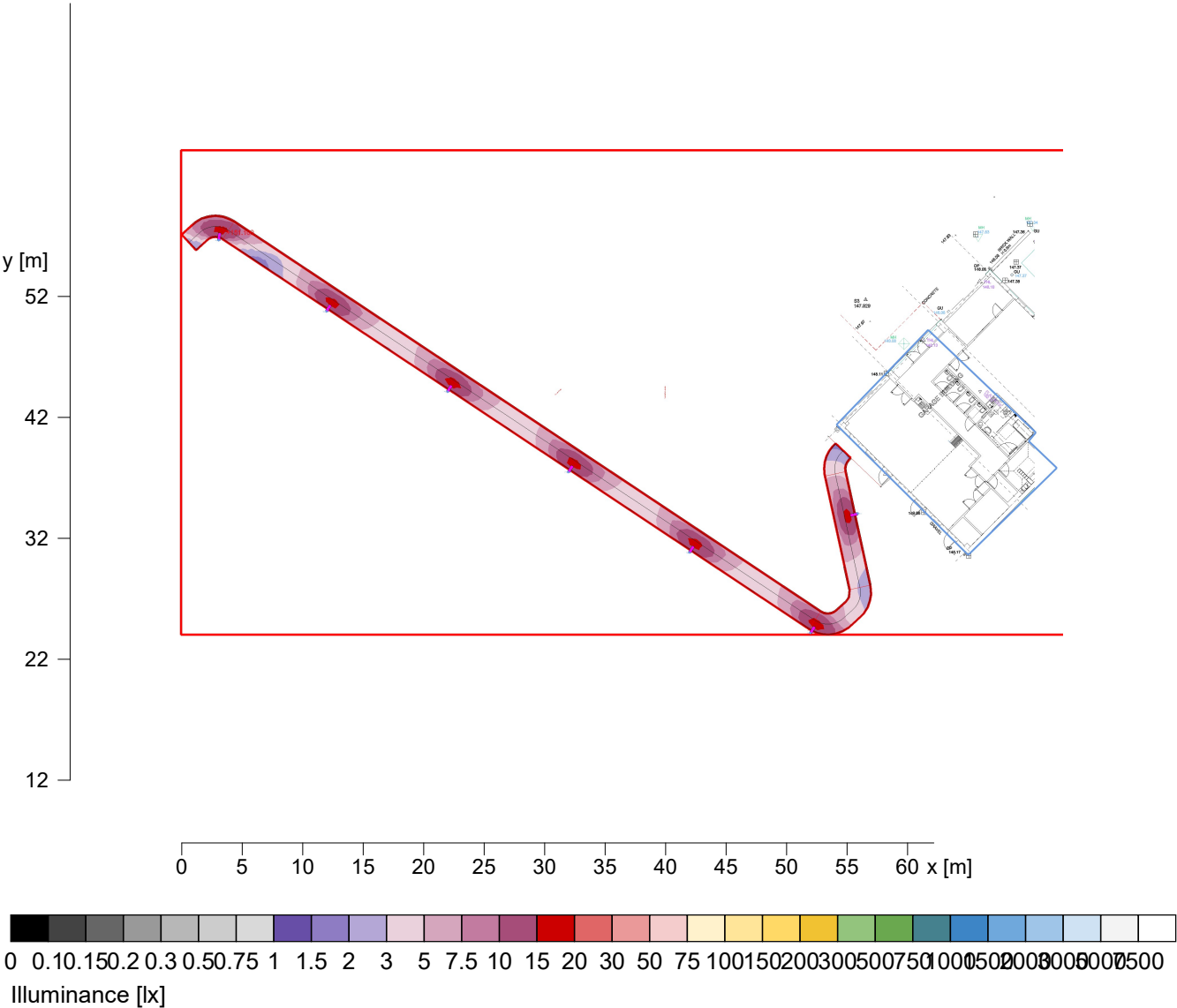
2.3.1 Pseudo colours, Reference plane 1.1 (E)



Height reference plane		: 0.00 m
Average illuminance	Em	: 0.75 lx
Minimum illuminance	Emin	: 0 lx
Maximum illuminance	Emax	: 8.68 lx
Uniformity Uo	Emin/Em	: ---
Diversity Ud	Emin/Emax	: ---

2.3 Calculation results, Exterior 1

2.3.2 Pseudo colours, Access Path (E)



Height reference plane		: 0.00 m
Average illuminance	Em	: 6.7 lx
Minimum illuminance	Emin	: 1.8 lx
Maximum illuminance	Emax	: 16.2 lx
Uniformity Uo	Emin/Em	: 1 : 3.83 (0.26)
Diversity Ud	Emin/Emax	: 1 : 9.25 (0.11)

2.3 Calculation results, Exterior 1

2.3.3 3D luminance, View 1

