95082

Shallcross Court

Est No: 95082
Customer:
Project: Shallcross Court

Date: 25.10.2015
Operator: Don Smith

Thorlux Lighting

Merse Road, North Moons Moat
Redditch, Worcs, B98 9HH

Operator Don Smith
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Table of contents

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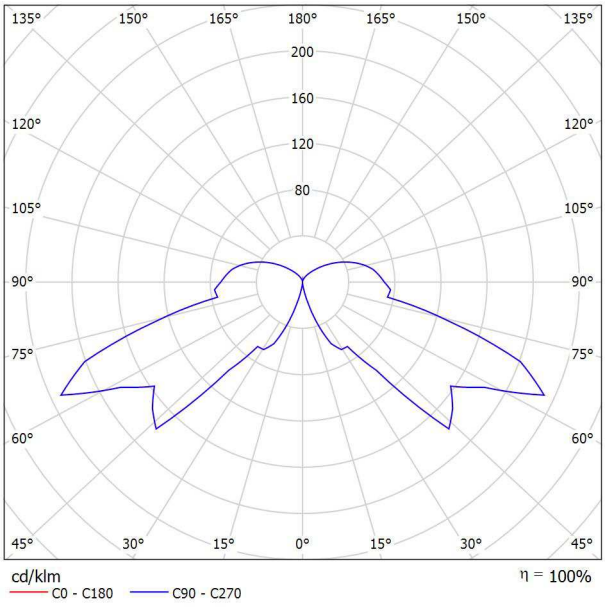
THORLUX PRB14442 Probe XL LED - 24W / Luminaire Data Sheet

Luminous emittance 1:



Luminaire classification according to CIE: 78
CIE flux code: 12 45 82 78 100

LED bollard luminaire (1040mm version)

Luminous emittance 1:

Glare Evaluation According to UGR

ρ Ceiling		70	70	50	50	30	70	70	50	50	30
ρ Walls		50	30	50	30	30	50	30	50	30	30
ρ Floor		20	20	20	20	20	20	20	20	20	20
Room Size X	Y	Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis				
2H	2H	18.8	20.2	19.4	20.8	21.6	18.8	20.2	19.4	20.8	21.6
	3H	23.3	24.6	23.9	25.2	26.0	23.3	24.6	23.9	25.2	26.0
	4H	24.3	25.6	25.0	26.2	27.0	24.3	25.6	25.0	26.2	27.0
	6H	25.0	26.1	25.6	26.8	27.6	25.0	26.1	25.6	26.8	27.6
	8H	25.3	26.4	25.9	27.1	27.9	25.3	26.4	25.9	27.1	27.9
	12H	25.8	26.8	26.4	27.5	28.3	25.8	26.8	26.4	27.5	28.3
4H	2H	20.5	21.8	21.2	22.4	23.2	20.5	21.8	21.2	22.4	23.2
	3H	24.5	25.5	25.2	26.2	27.0	24.5	25.5	25.2	26.2	27.0
	4H	25.6	26.5	26.3	27.2	28.1	25.6	26.5	26.3	27.2	28.1
	6H	26.3	27.1	27.0	27.8	28.7	26.3	27.1	27.0	27.8	28.7
	8H	26.6	27.4	27.4	28.2	29.0	26.6	27.4	27.4	28.2	29.0
	12H	27.2	28.0	28.0	28.7	29.6	27.2	28.0	28.0	28.7	29.6
8H	4H	25.9	26.7	26.6	27.4	28.3	25.9	26.7	26.6	27.4	28.3
	6H	26.8	27.4	27.5	28.2	29.1	26.8	27.4	27.5	28.2	29.1
	8H	27.3	27.9	28.1	28.7	29.6	27.3	27.9	28.1	28.7	29.6
	12H	28.2	28.7	28.9	29.5	30.4	28.2	28.7	28.9	29.5	30.4
12H	4H	25.9	26.7	26.7	27.4	28.3	25.9	26.7	26.7	27.4	28.3
	6H	26.9	27.5	27.6	28.2	29.1	26.9	27.5	27.6	28.2	29.1
	8H	27.5	28.0	28.3	28.8	29.7	27.5	28.0	28.3	28.8	29.7

Variation of the observer position for the luminaire distances S

S = 1.0H	+0.1 / -0.1	+0.1 / -0.1
S = 1.5H	+0.2 / -0.3	+0.2 / -0.3
S = 2.0H	+0.5 / -0.3	+0.5 / -0.3
Standard table	BK10	BK10
Correction Summand	14.2	14.2

Corrected Glare Indices referring to 575lm Total Luminous Flux

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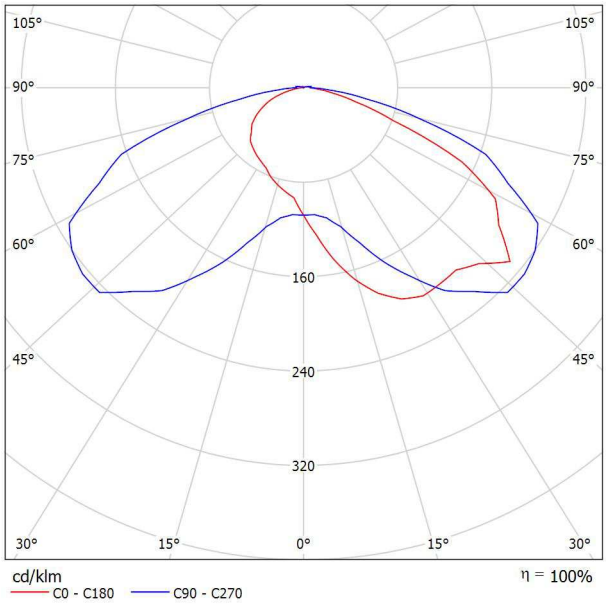
THORLUX SB15806 Starbeam - Area Distribution - 123W / Luminaire Data Sheet

Luminous emittance 1:



Luminaire classification according to CIE: 98
CIE flux code: 25 59 90 98 100

Supremely efficient long life IP66 pole top and wall mounted LED luminaires with aluminium cast body and wiring box and polycarbonate cover.

Due to missing symmetry properties, no UGR table can be displayed for this luminaire.

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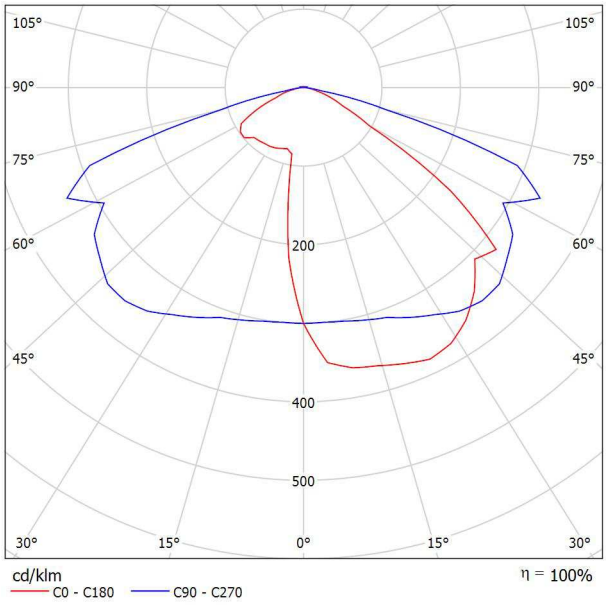
THORLUX SB15807 Starbeam - Roadway Distribution - 123W / Luminaire Data Sheet

Luminaire classification according to CIE: 99
CIE flux code: 39 76 97 99 100

Supremely efficient long life IP66 pole top and wall mounted LED luminaires with aluminium cast body and wiring box and polycarbonate cover.

Luminous emittance 1:



Due to missing symmetry properties, no UGR table can be displayed for this luminaire.

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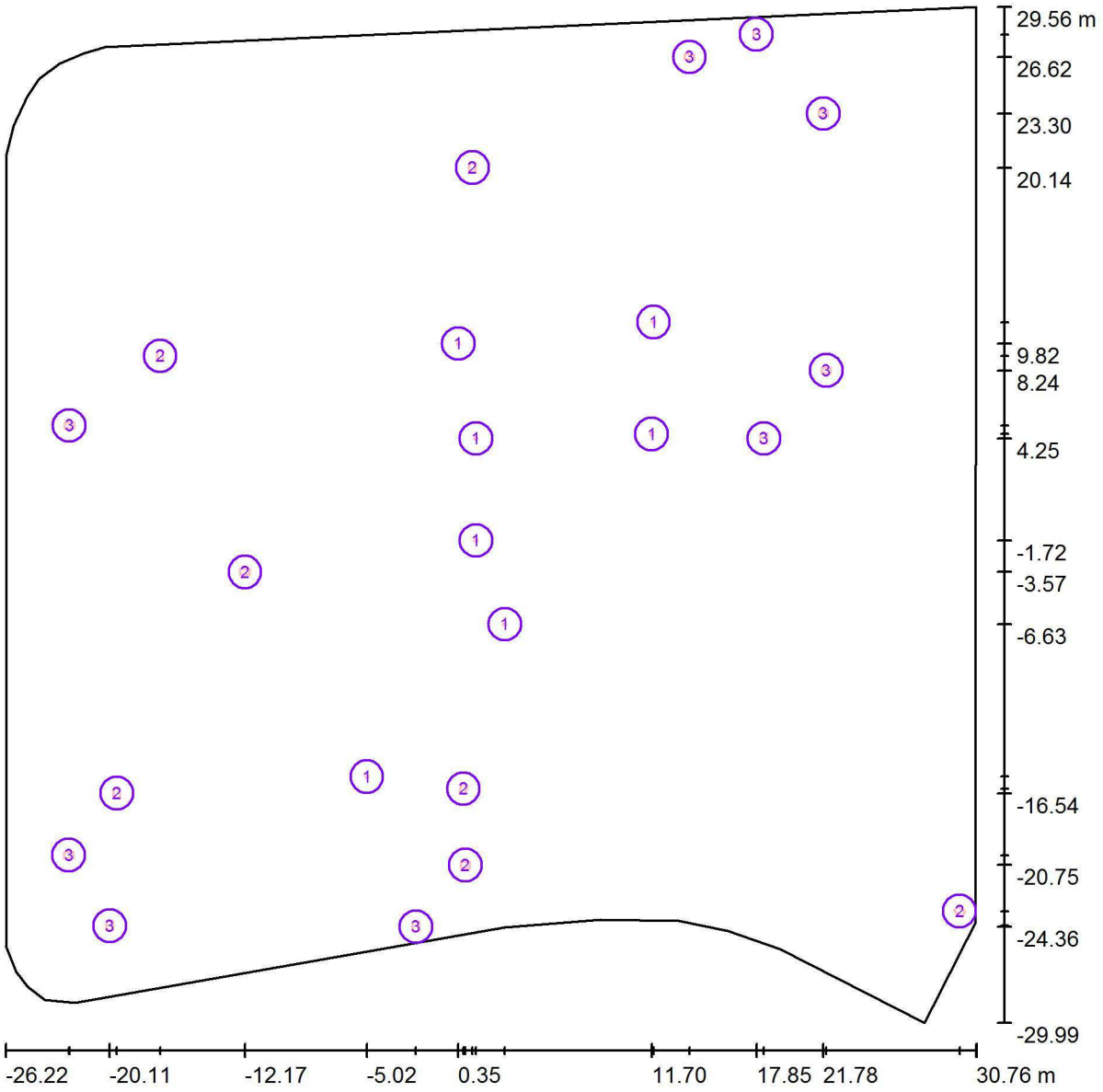
Exterior Scene 1 / Luminaires (layout plan)



Scale 1 : 408

Luminaire Parts List

No.	Pieces	Designation
1	7	THORLUX PRB14442 Probe XL LED - 24W
2	7	THORLUX SB15806 Starbeam - Area Distribution - 123W
3	9	THORLUX SB15807 Starbeam - Roadway Distribution - 123W

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Exterior Scene 1 / Calculation surfaces (results overview)

Scale 1 : 678

Calculation Surface List

No.	Designation	Type	Grid	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
1	Calculation Surface 1	perpendicular	17 x 13	22	1.13	91	0.050	0.012
2	Calculation Surface 2	perpendicular	5 x 13	53	25	96	0.462	0.258
3	Calculation Surface 3	perpendicular	7 x 17	25	0.27	102	0.011	0.003
4	Calculation Surface 4	perpendicular	7 x 15	42	2.04	101	0.048	0.020
5	Calculation Surface 5	perpendicular	3 x 13	62	30	89	0.492	0.343

Summary of Results

Type	Quantity	Average [lx]	Min [lx]	Max [lx]	u0	E_{min} / E_{max}
perpendicular	5	29	0.27	102	0.01	0.00

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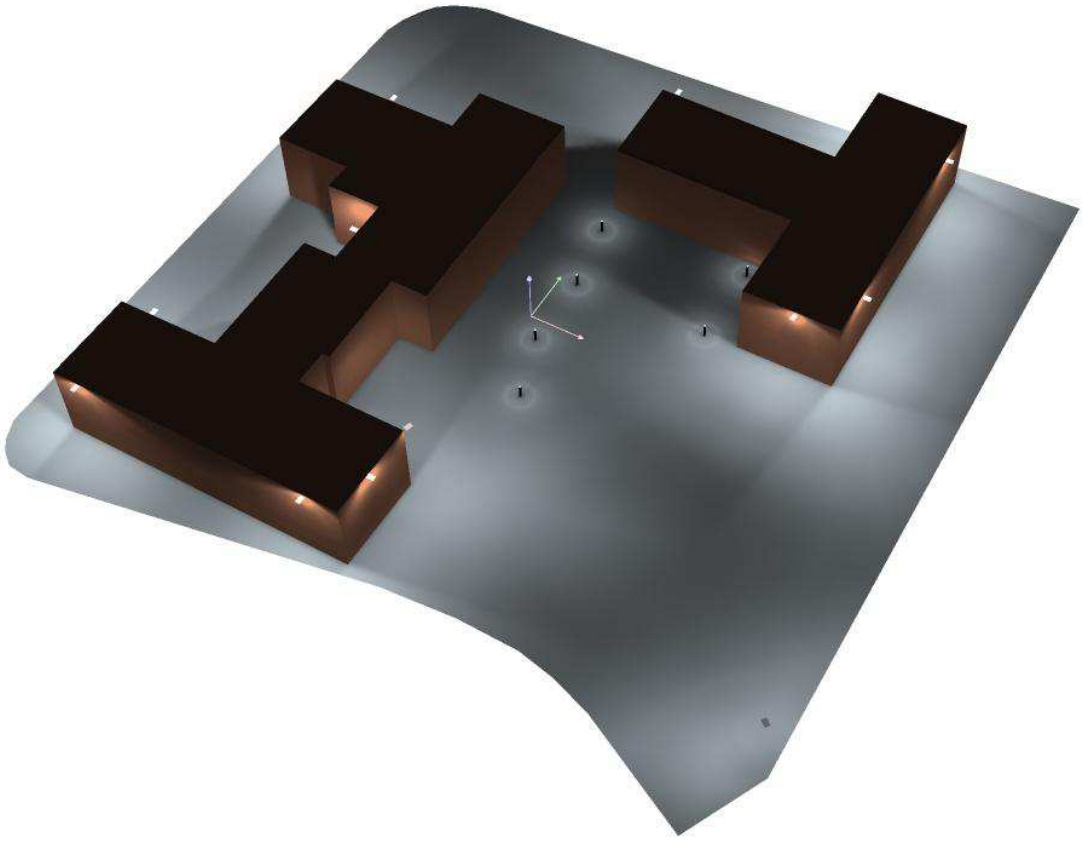
Exterior Scene 1 / 3D Rendering



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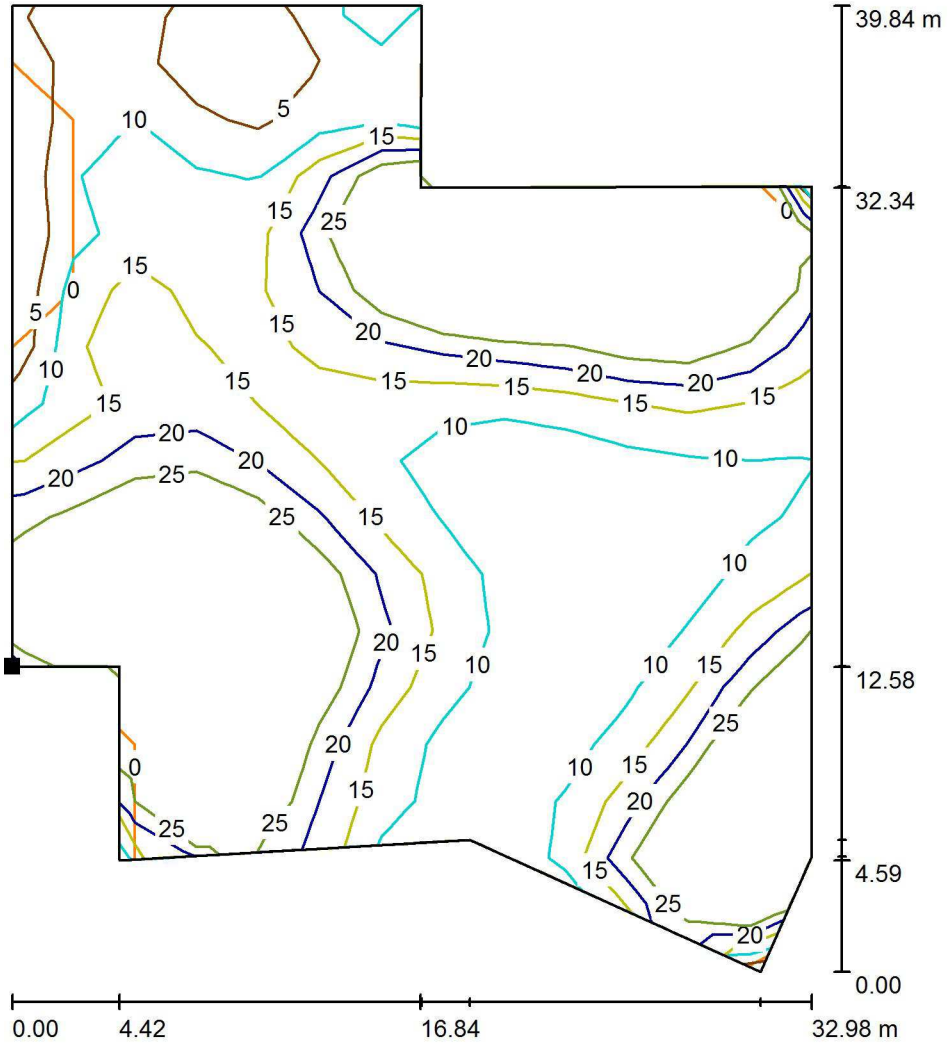
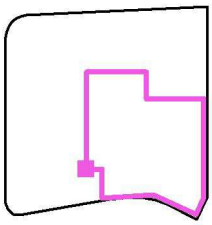
Exterior Scene 1 / Calculation Surface 1 / Isolines (E, Perpendicular)



Values in Lux, Scale 1 : 312

Position of surface in external scene:
Marked point:
(-3.316 m, -16.036 m, 0.000 m)



Grid: 17 x 13 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
22	1.13	91	0.050	0.012

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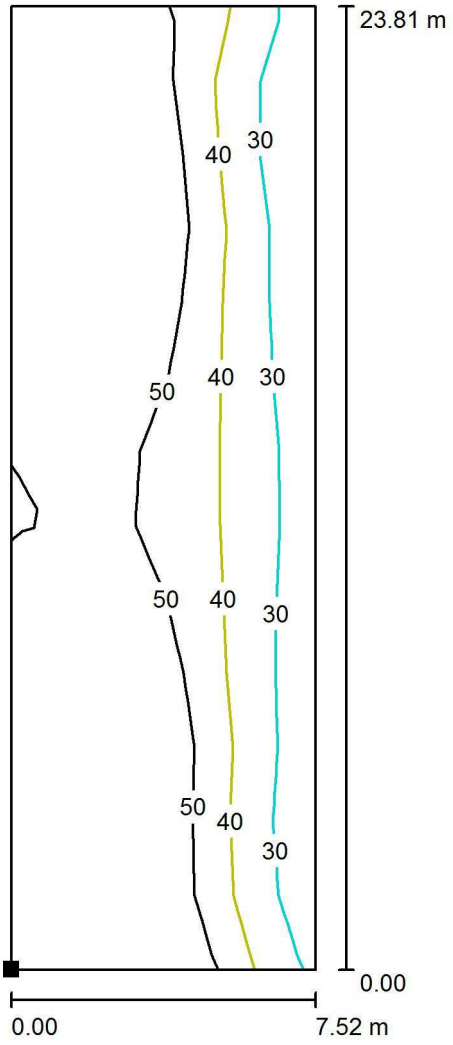
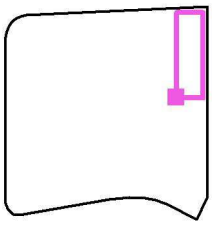
Exterior Scene 1 / Calculation Surface 2 / Isolines (E, Perpendicular)



Values in Lux, Scale 1 : 187

Position of surface in external scene:
Marked point:
(22.067 m, 4.075 m, 0.000 m)



Grid: 5 x 13 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
53	25	96	0.462	0.258

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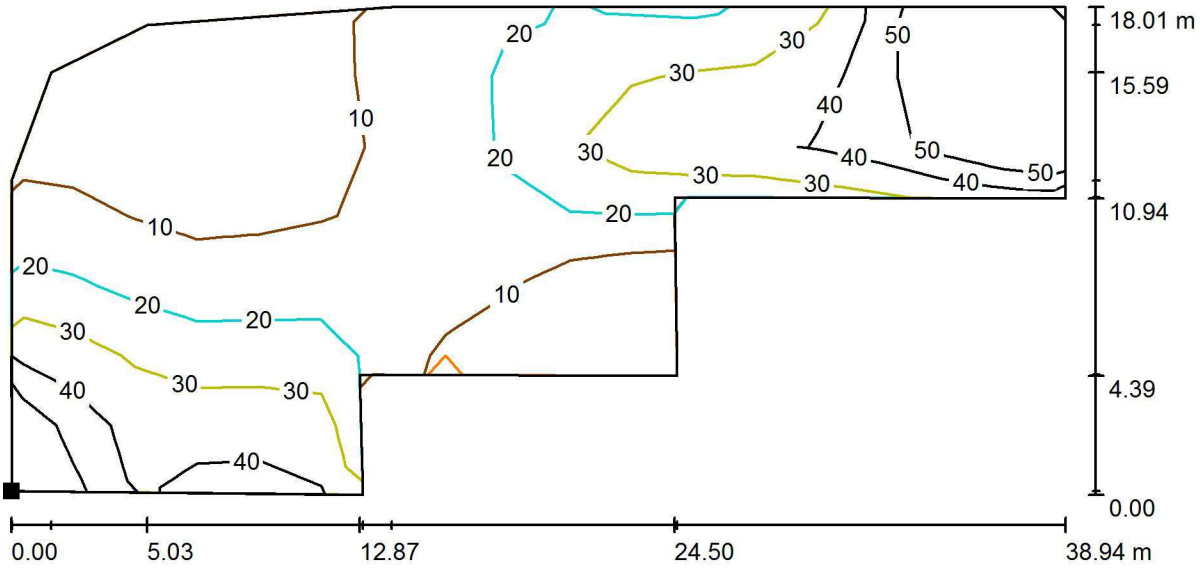
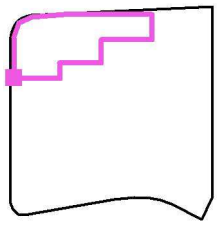
Exterior Scene 1 / Calculation Surface 3 / Isolines (E, Perpendicular)



Values in Lux, Scale 1 : 279

Position of surface in external scene:
Marked point:
(-25.122 m, 9.491 m, 0.000 m)



Grid: 7 x 17 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
25	0.27	102	0.011	0.003

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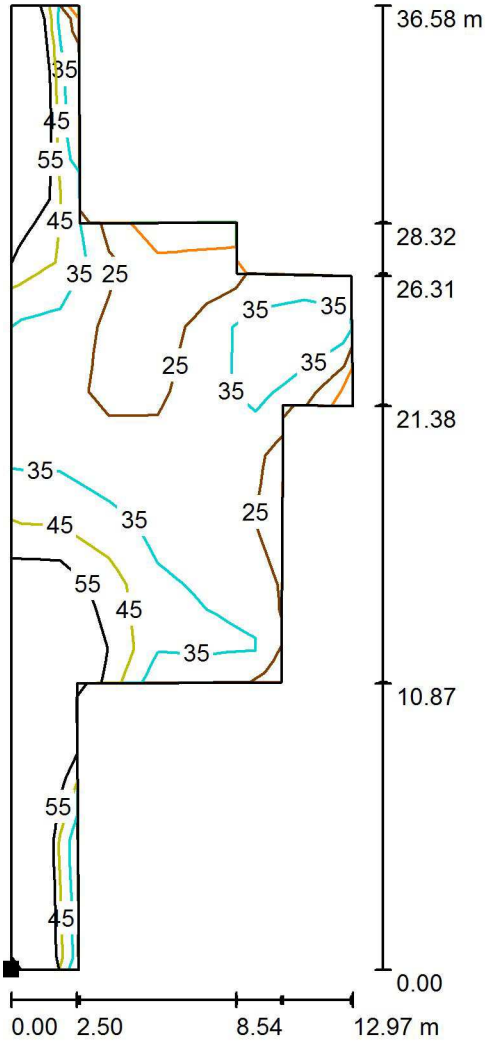
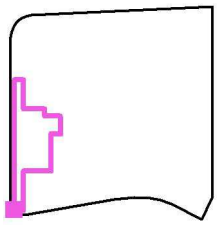
Exterior Scene 1 / Calculation Surface 4 / Isolines (E, Perpendicular)



Values in Lux, Scale 1 : 287

Position of surface in external scene:
Marked point:
(-25.025 m, -27.427 m, 0.000 m)



Grid: 7 x 15 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
42	2.04	101	0.048	0.020

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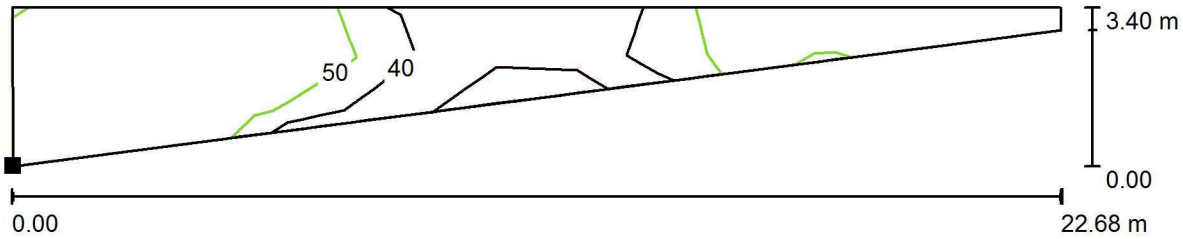
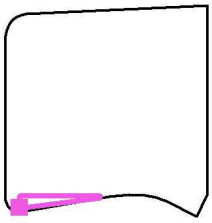
Exterior Scene 1 / Calculation Surface 5 / Isolines (E, Perpendicular)



Values in Lux, Scale 1 : 163

Position of surface in external scene:
Marked point:
(-22.127 m, -27.634 m, 0.000 m)



Grid: 3 x 13 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
62	30	89	0.492	0.343