

Ellenor Hospice

External Lighting

All calculations unless stated have been based upon an open plan area without any obstructions to the measuring plane.

Please be aware of the fire protection requirements and building regulations to check that conformity has been met where required. Easilume Ltd does not take responsibility to ensure that these specific requirements have been met.

Calculations have been performed according to good design practice. Some differences between measured values and calculated results may occur due to calculation methods, testing procedures, component performance, field conditions and assumptions used to generate the calculations.

Common design parameters as shown in our design report have been used to carry out all calculations. Easilume Ltd will not be held responsible for using specific design parameters that fall outside of these common design parameters unless by special instruction and acknowledgment by a member of the Easilume Ltd team.

Easilume Ltd accepts no liability for the final as-built performance due to the differences or variations that can occur between design and project completion.

Easilume Ltd does not accept design responsibility for free-of-charge lighting calculations or will be held responsible for the subsequent use of this information unless previously agreed.

Any emergency lighting calculations that have been completed have been based on achieving a minimum of 0.5 lux for open areas and 1 lux for escape routes with the measuring plane at floor level where details of escape routes have been given. Additional lighting may be required.

The emergency lighting design will not include additional coverage for safety signage, escape route doors, first aid equipment, fire equipment, call points, disabled equipment, plant/switch or control gear. This is due to the required information being unavailable and the variations that can occur between the design and project completion. If an all-inclusive emergency design is required, this will be subject to special instruction and acknowledgment by a member of the Easilume Ltd team and subject to all required information being available. If all-inclusive emergency design responsibility is required, this will be subject to all required information being available at design stage together with a site survey at project completion stage once all safety equipment is installed to ensure there is no variation between the design and the final as-built project.

It is the responsibility of Easilume Ltd's customer to ensure that that all elements of the design is according to expectations.

If any part of this scheme or luminaire choice within this scheme is deemed not suitable for the application, please contact us for re-calculations prior to an order being placed.

Final quantities are to be confirmed prior to order or installation and Easilume Ltd will not be held responsible for any errors or omissions.

Partner for Contact: EASILUME

Date: 22.09.2023
Operator: Jasper Dixon

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The Stable, Manor Farm Barns, Baines Lane, Seaton, Rutland, LE15
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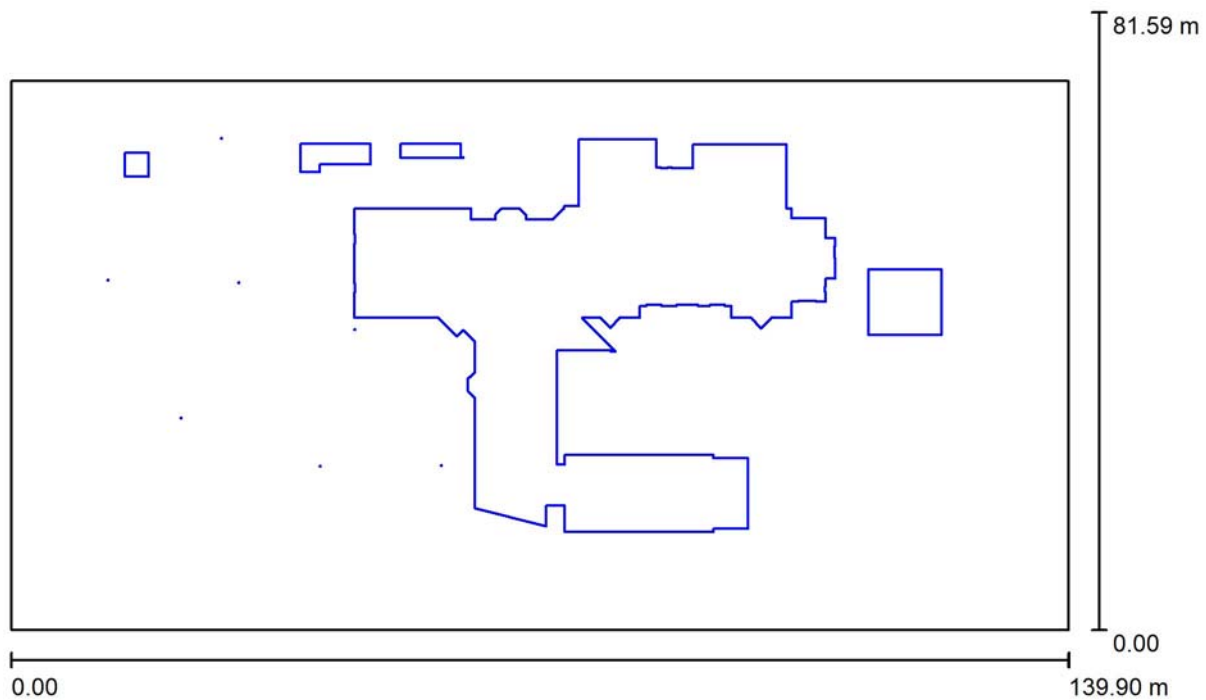
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e-Mail sales@easilume.co.uk**Exterior Scene 1 / Planning data**

Light loss factor: 0.67, ULR (Upward Light Ratio): 2.5%

Scale 1:1001

Luminaire Parts List

No.	Pieces	Designation (Correction Factor)	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
1	25	Easilume Ltd WLEX35 -13W-E (1.000)	1755	1757	12.6
2	15	Easilume Ltd BL09-14W-4K-E Lugo Flat Top Bollard (1.000)	1542	1542	14.3
3	10	Easilume Ltd PT04-26W-4K-LSS2 Adrano Street Lamp Head (1.000)	3511	3511	26.2
Total:			102113	Total: 102165	791.5

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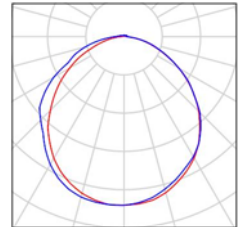
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Exterior Scene 1 / Luminaire parts list

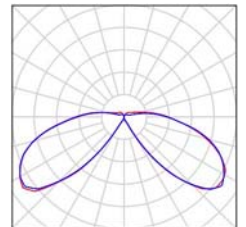
25 Pieces Easilume Ltd WLEX35 -13W-E
Article No.:
Luminous flux (Luminaire): 1755 lm
Luminous flux (Lamps): 1757 lm
Luminaire Wattage: 12.6 W
Luminaire classification according to CIE: 97
CIE flux code: 48 80 95 97 100
Fitting: 1 x 1 12.60W 1757.03lm (Correction
Factor 1.000).

See our luminaire
catalog for an image of
the luminaire.



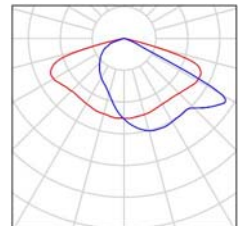
15 Pieces Easilume Ltd BL09-14W-4K-E Lugo Flat Top
Bollard
Article No.: BL09-14W-4K-E
Luminous flux (Luminaire): 1542 lm
Luminous flux (Lamps): 1542 lm
Luminaire Wattage: 14.3 W
Luminaire classification according to CIE: 86
CIE flux code: 08 44 79 86 100
Fitting: 1 x LED (Correction Factor 1.000).

See our luminaire
catalog for an image of
the luminaire.



10 Pieces Easilume Ltd PT04-26W-4K-LSS2 Adrano Street
Lamp Head
Article No.: PT04-26W-4K-LSS2
Luminous flux (Luminaire): 3511 lm
Luminous flux (Lamps): 3511 lm
Luminaire Wattage: 26.2 W
Luminaire classification according to CIE: 100
CIE flux code: 37 73 98 100 100
Fitting: 1 x LED1x3450 T740 (Correction Factor
1.000).

See our luminaire
catalog for an image of
the luminaire.

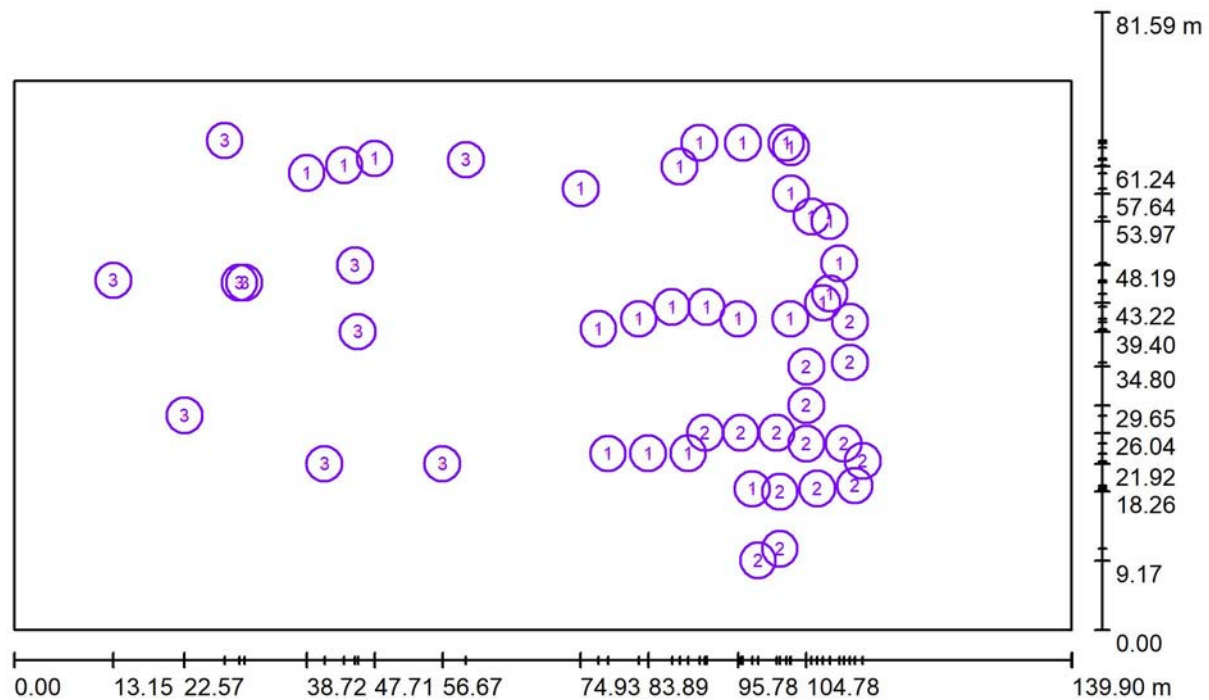


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Exterior Scene 1 / Luminares (layout plan)



Scale 1 : 1001

Luminaire Parts List

No.	Pieces	Designation
1	25	Easilume Ltd WLEX35 -13W-E
2	15	Easilume Ltd BL09-14W-4K-E Lugo Flat Top Bollard
3	10	Easilume Ltd PT04-26W-4K-LSS2 Adrano Street Lamp Head

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Exterior Scene 1 / Calculation surfaces (results overview)



Scale 1 : 1001

Calculation Surface List

No.	Designation	Type	Grid	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
1	Car Area	perpendicular	17 x 17	12	4.89	66	0.398	0.074
2	Pedestrian Walkway 1	perpendicular	14 x 14	29	9.25	82	0.315	0.113
3	Pedestrian Walkway 2	perpendicular	17 x 22	33	10	86	0.311	0.121
4	Windows calc surface	perpendicular	32 x 4	0.30	0.21	0.45	0.701	0.465

Summary of Results

Type	Quantity	Average [lx]	Min [lx]	Max [lx]	u0	E_{min} / E_{max}
perpendicular	4	13	0.21	86	0.02	0.00

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Exterior Scene 1 / 3D Rendering

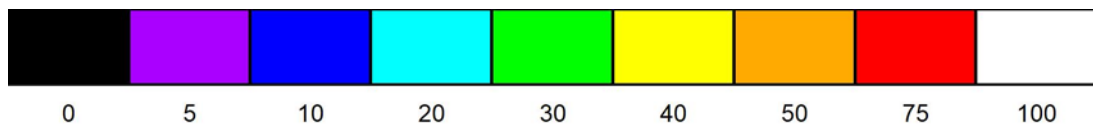
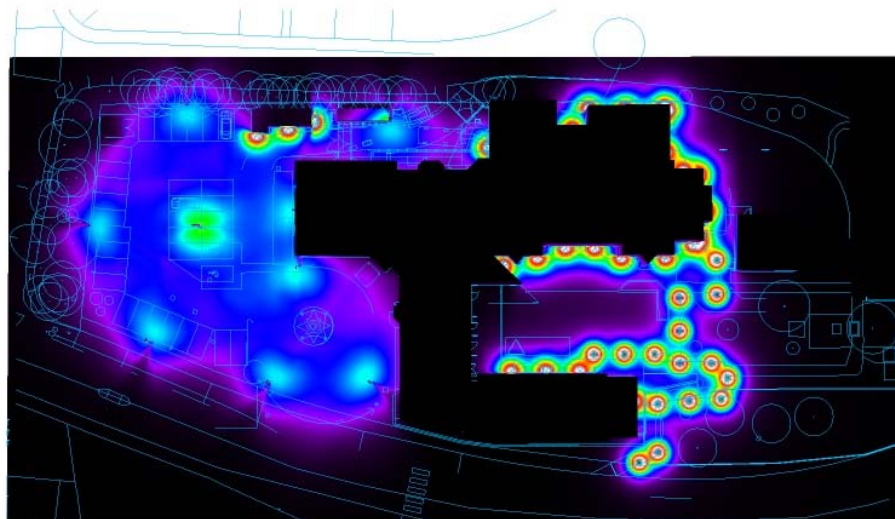


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Exterior Scene 1 / False Color Rendering



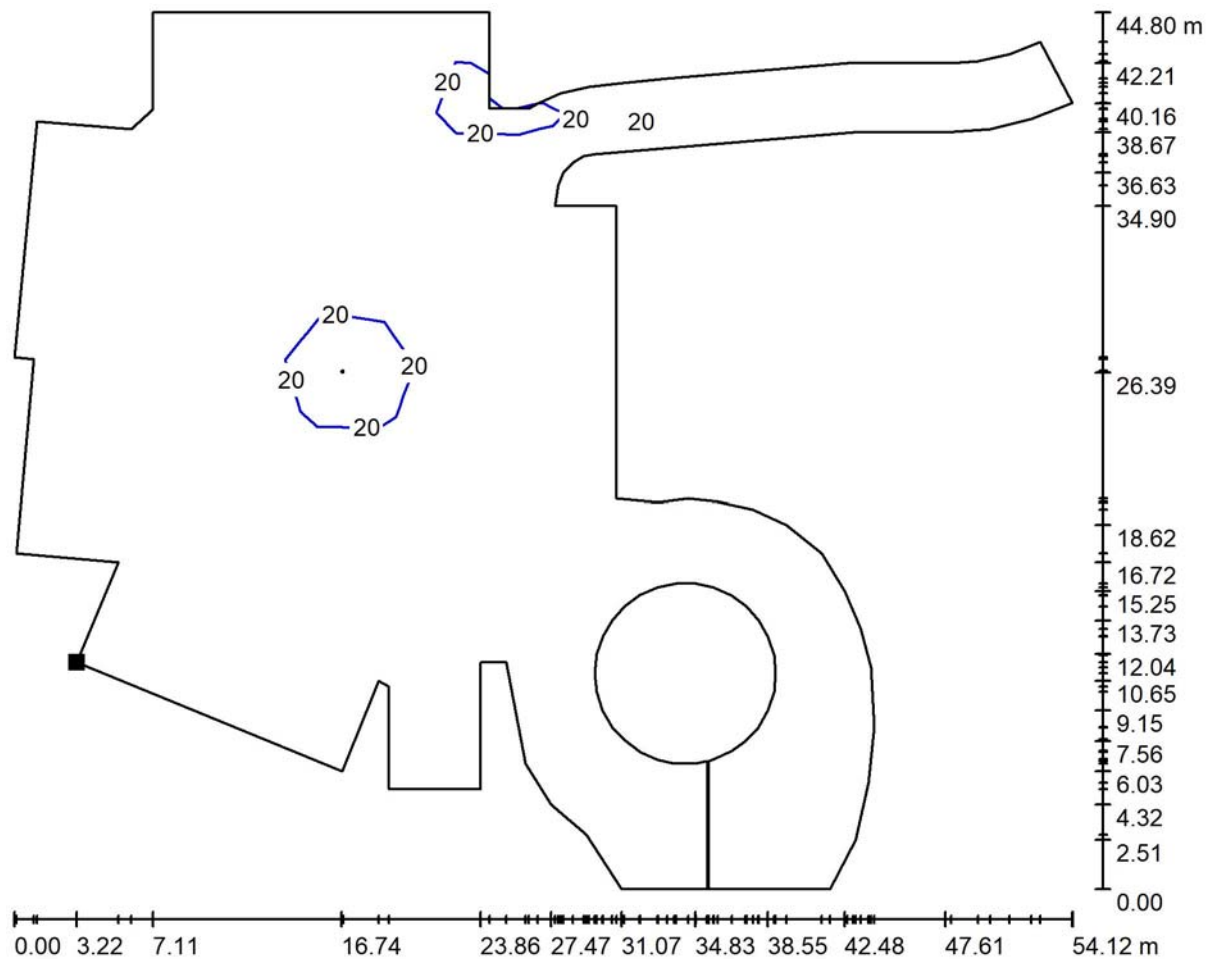
lx

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Exterior Scene 1 / Car Area / Isolines (E, Perpendicular)



Values in Lux, Scale 1 : 387

Position of surface in external scene:

Marked point:

(16.568 m, 31.036 m, 0.000 m)



Grid: 17 x 17 Points

E_{av} [lx]
12

E_{min} [lx]
4.89

E_{max} [lx]
66

u_0
0.398

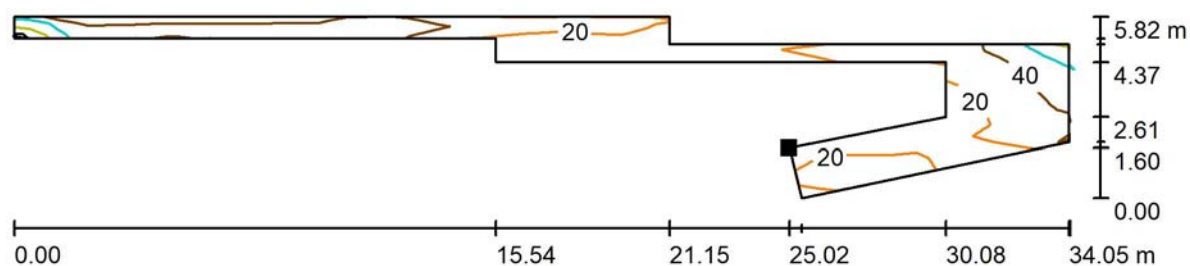
E_{min} / E_{max}
0.074

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Exterior Scene 1 / Pedestrian Walkway 1 / Isolines (E, Perpendicular)

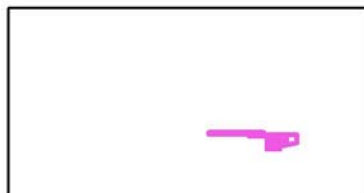


Values in Lux, Scale 1 : 244

Position of surface in external scene:

Marked point:

(102.646 m, 20.542 m, 0.000 m)



Grid: 14 x 14 Points

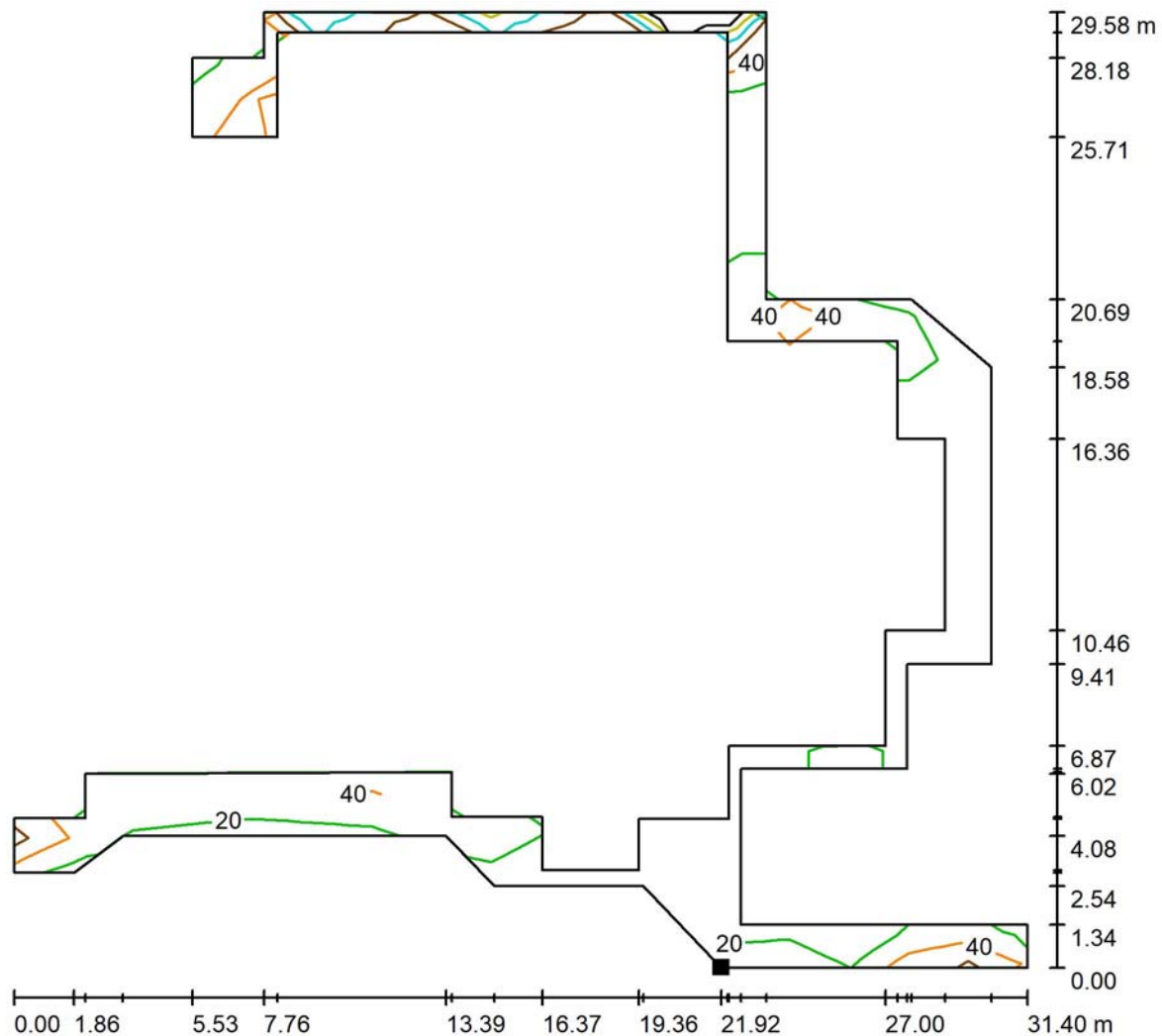
 E_{av} [lx]
29 E_{min} [lx]
9.25 E_{max} [lx]
82 u_0
0.315 E_{min} / E_{max}
0.113

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Exterior Scene 1 / Pedestrian Walkway 2 / Isolines (E, Perpendicular)

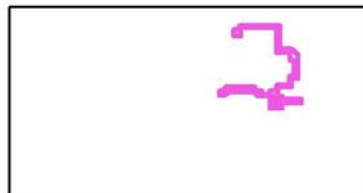


Values in Lux, Scale 1 : 232

Position of surface in external scene:

Marked point:

(103.216 m, 35.734 m, 0.000 m)



Grid: 17 x 22 Points

E_{av} [lx]
33

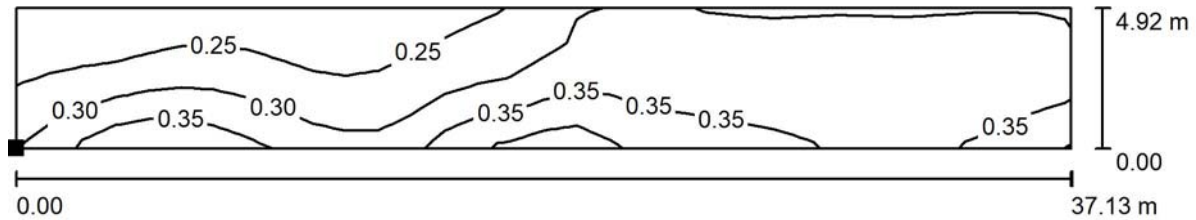
E_{min} [lx]
10

E_{max} [lx]
86

u_0
0.311

E_{min} / E_{max}
0.121

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Values in Lux, Scale 1 : 266

Position of surface in external scene:

Marked point:

(31.636 m, 81.587 m, 0.042 m)



Grid: 32 x 4 Points

 E_{av} [lx]
0.30 E_{min} [lx]
0.21 E_{max} [lx]
0.45 u_0
0.701 E_{min} / E_{max}
0.465