

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: 10.07.2023
Operator: Jasper Dixon

EASILUME LTD

The Stable, Manor Farm Barns, Baines Lane, Seaton, Rutland, LE15
9HPOperator Jasper Dixon
Telephone 0333 800 5555
Fax
e-Mail sales@easilume.co.uk

Table of contents

Ellenor Hospice

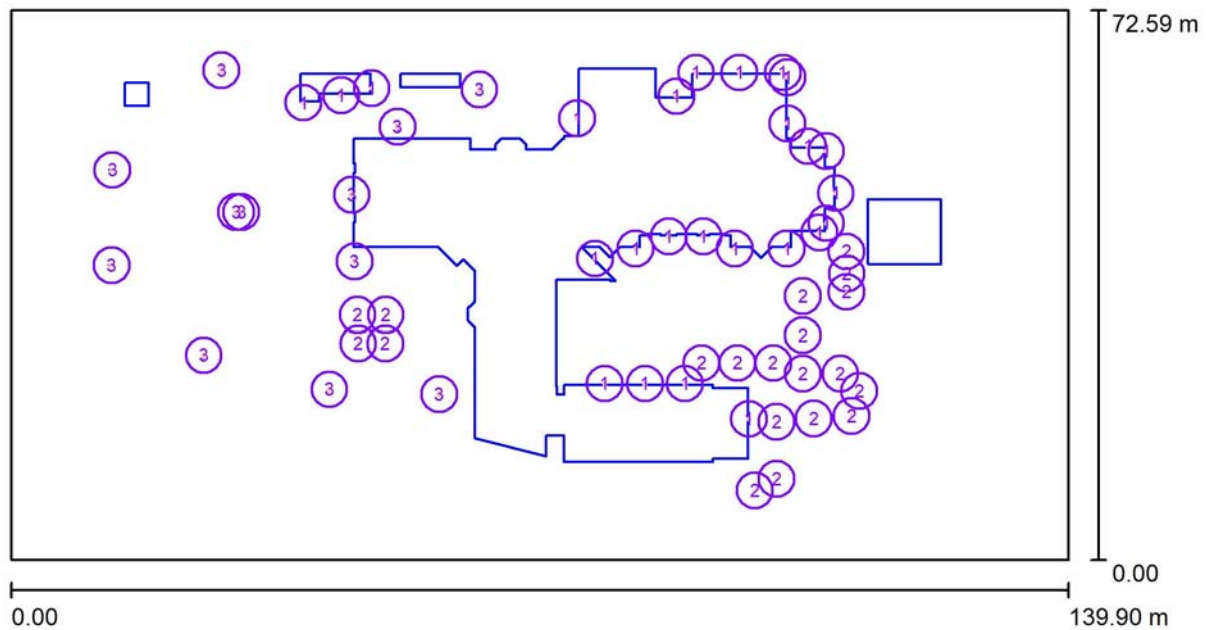
Project Cover	1
Table of contents	2
Exterior Scene 1	
Planning data	3
Luminaire parts list	4
Luminaires (coordinates list)	5
Calculation surfaces (results overview)	8
3D Rendering	9
False Color Rendering	10
Exterior Surfaces	
Car Area	
Isolines (E, Perpendicular)	11
Pedestrian Walkway 1	
Isolines (E, Perpendicular)	12
Pedestrian Walkway 2	
Isolines (E, Perpendicular)	13

EASILUME LTD

The Stable, Manor Farm Barns, Baines Lane, Seaton, Rutland, LE15
9HP

Operator Jasper Dixon
Telephone 0333 800 5555
Fax
e-Mail sales@easilume.co.uk

Exterior Scene 1 / Planning data



Light loss factor: 0.67, ULR (Upward Light Ratio): 3.0%

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	20	Easilume Ltd BL09-14W-4K-E Lugo Flat Top Bollard (1.000)	1627	1627	14.3
3	12	Easilume Ltd PT04-26W-4K-LSS2 Adrano Street Lamp Head (1.000)	3511	3511	26.2
Total:			118545	Total: 118597	915.4

EASILUME LTD

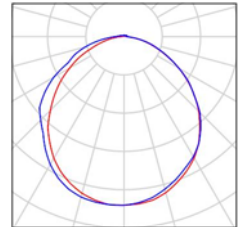
The Stable, Manor Farm Barns, Baines Lane, Seaton, Rutland, LE15
9HP

Operator Jasper Dixon
Telephone 0333 800 5555
Fax
e-Mail sales@easilume.co.uk

Exterior Scene 1 / Luminaire parts list

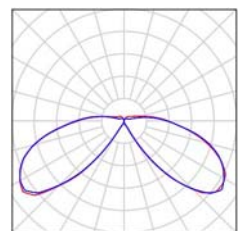
25 Pieces Easilume Ltd WLEX35 -13W-E
Article No.:
Luminous flux (Luminaire): 1755 lm
Luminous flux (Lamps): 1757 lm
Luminaire Wattage: 12.6 W
Luminaire classification according to CIE: 97
CIE flux code: 48 80 95 97 100
Fitting: 1 x 1 12.60W 1757.03lm (Correction
Factor 1.000).

See our luminaire
catalog for an image of
the luminaire.



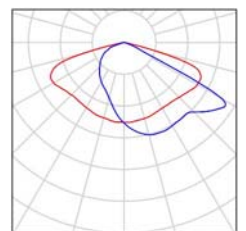
20 Pieces Easilume Ltd BL09-14W-4K-E Lugo Flat Top
Bollard
Article No.: BL09-14W-4K-E
Luminous flux (Luminaire): 1627 lm
Luminous flux (Lamps): 1627 lm
Luminaire Wattage: 14.3 W
Luminaire classification according to CIE: 86
CIE flux code: 08 44 79 86 100
Fitting: 1 x LED1x1650 T840 (Correction Factor
1.000).

See our luminaire
catalog for an image of
the luminaire.



12 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.

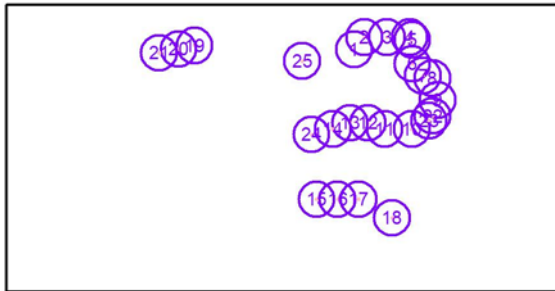


EASILUME LTD

The Stable, Manor Farm Barns, Baines Lane, Seaton, Rutland, LE15 9HP

Operator Jasper Dixon
Telephone 0333 800 5555
Fax
e-Mail sales@easilume.co.uk**Exterior Scene 1 / Luminaires (coordinates list)****Easilume Ltd WLEX35 -13W-E**

1755 lm, 12.6 W, 1 x 1 x 1 12.60W 1757.03lm (Correction Factor 1.000).

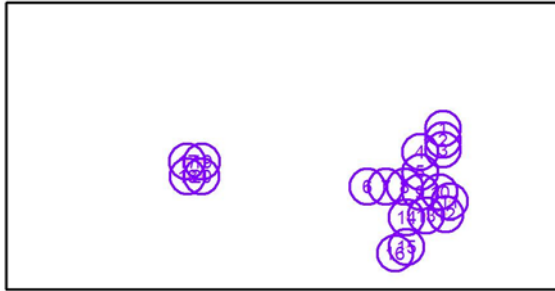


No.	Position [m]			Rotation [°]		
	X	Y	Z	X	Y	Z
1	88.029	61.240	2.000	0.0	0.0	90.0
2	90.649	64.361	2.000	0.0	0.0	90.0
3	96.393	64.361	2.000	0.0	0.0	90.0
4	102.138	64.361	2.000	0.0	0.0	90.0
5	102.751	63.756	2.000	0.0	0.0	0.0
6	102.751	57.643	2.000	0.0	0.0	0.0
7	105.475	54.606	2.000	0.0	0.0	90.0
8	107.873	53.971	2.000	0.0	0.0	0.0
9	109.145	48.436	2.000	0.0	0.0	0.0
10	102.659	41.094	2.000	0.0	0.0	-90.0
11	95.781	41.094	2.000	0.0	0.0	-90.0
12	91.599	42.676	2.000	0.0	0.0	-90.0
13	87.022	42.678	2.000	0.0	0.0	-90.0
14	82.646	41.092	2.000	0.0	0.0	-90.0
15	78.556	23.310	2.000	0.0	0.0	-90.0
16	83.892	23.312	2.000	0.0	0.0	-90.0
17	89.179	23.312	2.000	0.0	0.0	-90.0
18	97.651	18.648	2.000	0.0	0.0	180.0
19	47.714	62.295	2.000	0.0	0.0	180.0
20	43.670	61.376	2.000	0.0	0.0	90.0
21	38.722	60.366	2.000	0.0	0.0	90.0
22	107.887	44.426	2.000	0.0	0.0	0.0
23	106.968	43.218	2.000	0.0	0.0	-90.0
24	77.290	39.777	2.000	0.0	0.0	44.9
25	74.930	58.314	2.000	0.0	0.0	180.0

EASILUME LTD

The Stable, Manor Farm Barns, Baines Lane, Seaton, Rutland, LE15
9HPOperator Jasper Dixon
Telephone 0333 800 5555
Fax
e-Mail sales@easilume.co.uk**Exterior Scene 1 / Luminaires (coordinates list)****Easilume Ltd BL09-14W-4K-E Lugo Flat Top Bollard**

1627 lm, 14.3 W, 1 x 1 x LED1x1650 T840 (Correction Factor 1.000).

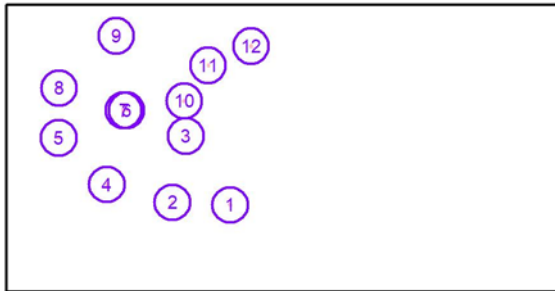


No.	Position [m]			Rotation [°]		
	X	Y	Z	X	Y	Z
1	110.578	40.709	0.800	0.0	0.0	90.0
2	110.581	37.776	0.800	0.0	0.0	90.0
3	110.577	35.338	0.800	0.0	0.0	90.0
4	104.777	34.803	0.800	0.0	0.0	0.0
5	104.777	29.651	0.800	0.0	0.0	0.0
6	91.392	26.037	0.800	0.0	0.0	90.0
7	96.123	26.037	0.800	0.0	0.0	90.0
8	100.854	26.037	0.800	0.0	0.0	90.0
9	104.778	24.619	0.800	0.0	0.0	90.0
10	109.724	24.619	0.800	0.0	0.0	90.0
11	112.259	22.313	0.800	0.0	0.0	-90.0
12	111.216	19.054	0.800	0.0	0.0	-90.0
13	106.239	18.684	0.800	0.0	0.0	-85.1
14	101.309	18.262	0.800	0.0	0.0	-85.1
15	101.309	10.733	0.800	0.0	0.0	-61.6
16	98.413	9.166	0.800	0.0	0.0	-61.6
17	45.868	32.364	0.800	0.0	0.0	1.0
18	45.937	28.586	0.800	0.0	0.0	1.0
19	49.578	32.361	0.800	0.0	0.0	-0.9
20	49.520	28.586	0.800	0.0	0.0	-0.9

EASILUME LTD

The Stable, Manor Farm Barns, Baines Lane, Seaton, Rutland, LE15
9HPOperator Jasper Dixon
Telephone 0333 800 5555
Fax
e-Mail sales@easilume.co.uk**Exterior Scene 1 / Luminaires (coordinates list)****Easilume Ltd PT04-26W-4K-LSS2 Adrano Street Lamp Head**

3511 lm, 26.2 W, 1 x 1 x LED1x3450 T740 (Correction Factor 1.000).



No.	Position [m]			Rotation [°]		
	X	Y	Z	X	Y	Z
1	56.666	21.916	6.000	0.0	0.0	52.7
2	42.142	22.541	6.000	0.0	0.0	-43.9
3	45.468	39.400	6.000	0.0	0.0	180.0
4	25.489	27.046	6.000	0.0	0.0	-23.0
5	13.310	38.898	6.000	0.0	0.0	-94.9
6	30.477	45.901	6.000	0.0	0.0	-90.0
7	29.802	45.901	6.000	0.0	0.0	90.0
8	13.414	51.475	6.000	0.0	0.0	-94.9
9	27.854	64.658	6.000	0.0	0.0	180.0
10	45.107	48.195	6.000	0.0	0.0	90.0
11	51.143	57.200	6.000	0.0	0.0	0.0
12	61.986	62.118	6.000	0.0	0.0	180.0

EASILUME LTD

The Stable, Manor Farm Barns, Baines Lane, Seaton, Rutland, LE15
9HP

Operator Jasper Dixon
Telephone 0333 800 5555
Fax
e-Mail sales@easilume.co.uk

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]	u_0	E_{min} / E_{max}
1	Car Area	perpendicular	17 x 17	14	6.46	67	0.463	0.097
2	Pedestrian Walkway 1	perpendicular	14 x 14	19	4.93	80	0.254	0.062
3	Pedestrian Walkway 2	perpendicular	17 x 22	32	8.40	85	0.263	0.098

Summary of Results

Type	Quantity	Average [lx]	Min [lx]	Max [lx]	u_0	E_{min} / E_{max}
perpendicular	3	16	4.93	85	0.32	0.06

EASILUME LTD

The Stable, Manor Farm Barns, Baines Lane, Seaton, Rutland, LE15
9HP

Operator Jasper Dixon
Telephone 0333 800 5555
Fax
e-Mail sales@easilume.co.uk

Exterior Scene 1 / 3D Rendering

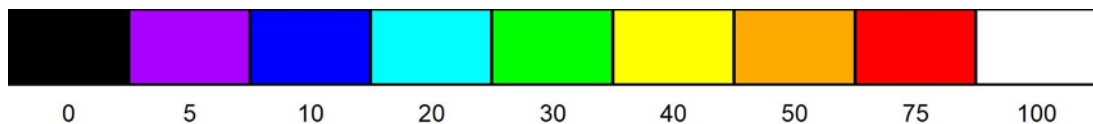
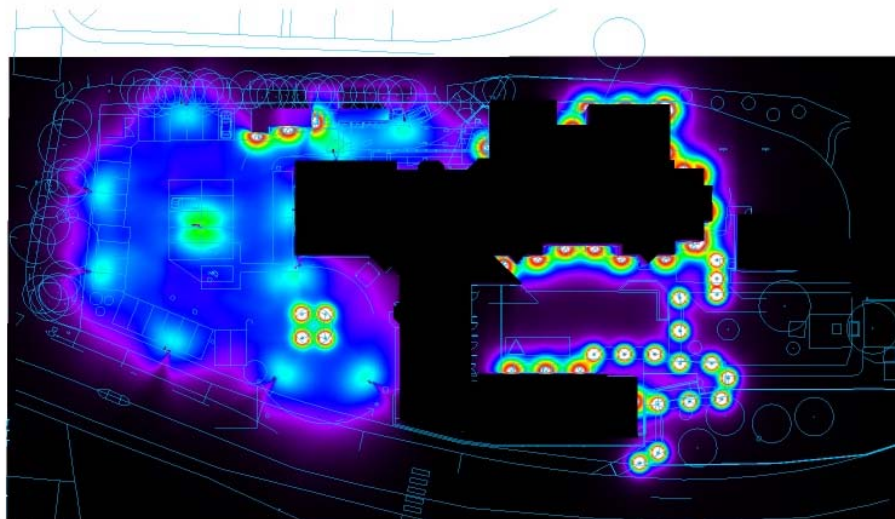


EASILUME LTD

The Stable, Manor Farm Barns, Baines Lane, Seaton, Rutland, LE15
9HP

Operator Jasper Dixon
Telephone 0333 800 5555
Fax
e-Mail sales@easilume.co.uk

Exterior Scene 1 / False Color Rendering



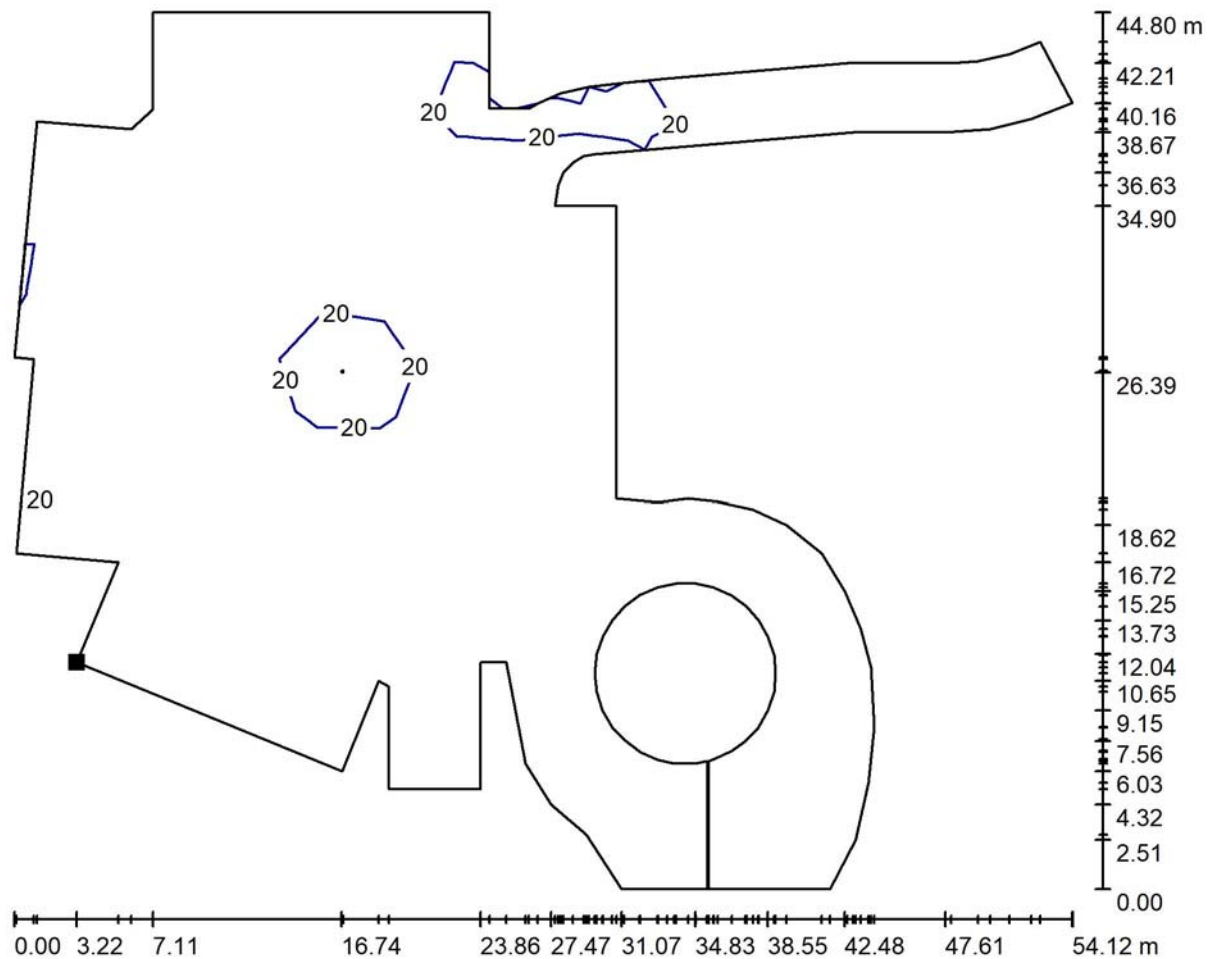
lx

EASILUME LTD

The Stable, Manor Farm Barns, Baines Lane, Seaton, Rutland, LE15
9HP

Operator Jasper Dixon
Telephone 0333 800 5555
Fax
e-Mail sales@easilume.co.uk

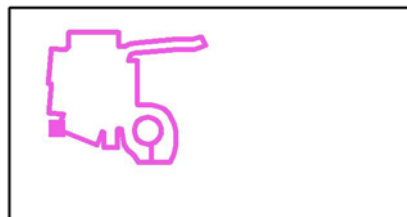
Exterior Scene 1 / Car Area / Isolines (E, Perpendicular)



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]
14

E_{min} [lx]
6.46

E_{max} [lx]
67

u_0
0.463

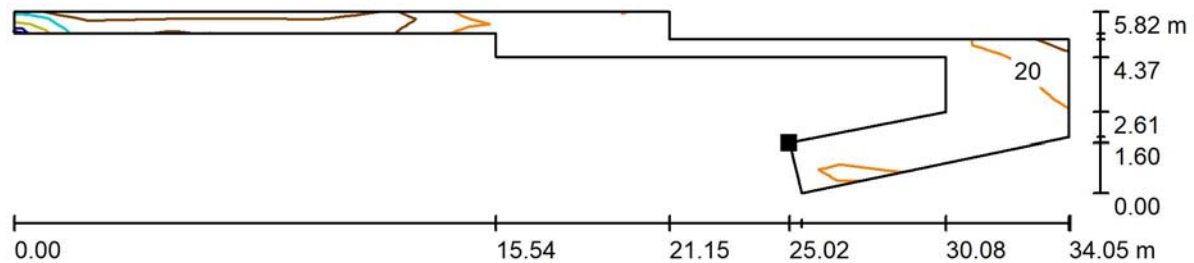
E_{min} / E_{max}
0.097

EASILUME LTD

The Stable, Manor Farm Barns, Baines Lane, Seaton, Rutland, LE15
9HP

Operator Jasper Dixon
Telephone 0333 800 5555
Fax
e-Mail sales@easilume.co.uk

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]
19

E_{min} [lx]
4.93

E_{max} [lx]
80

u_0
0.254

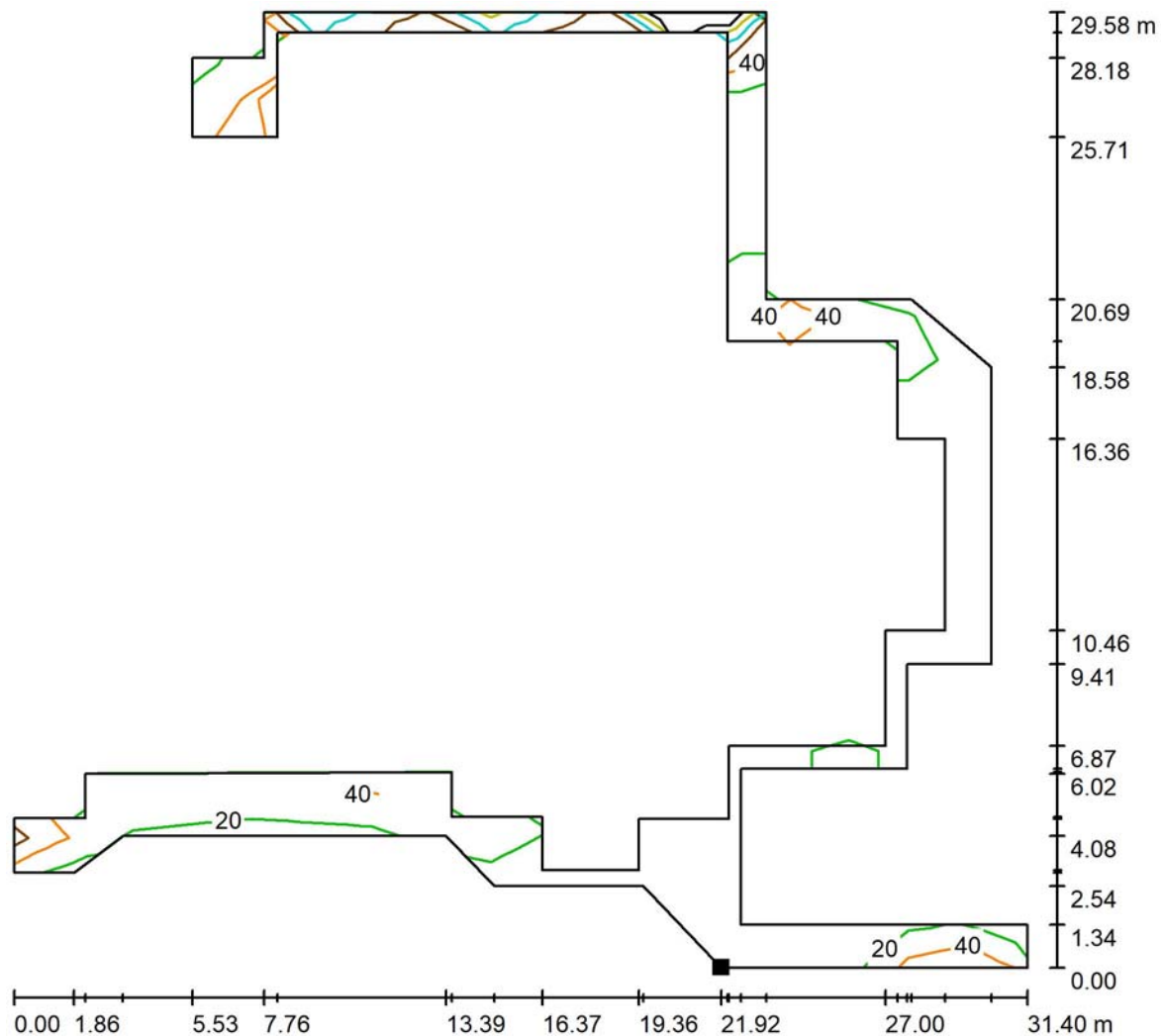
E_{min} / E_{max}
0.062

EASILUME LTD

The Stable, Manor Farm Barns, Baines Lane, Seaton, Rutland, LE15
9HP

Operator Jasper Dixon
Telephone 0333 800 5555
Fax
e-Mail sales@easilume.co.uk

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

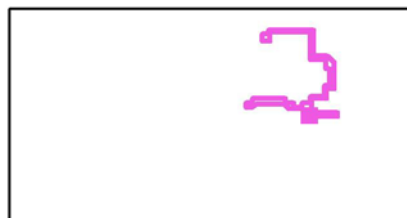


Values in Lux, Scale 1 : 232

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]	E_{min} [lx]	E_{max} [lx]	u_0	E_{min} / E_{max}
32	8.40	85	0.263	0.098