

Netball Courts 400lux River Academy

400lux PPA Netball Courts c/w 0.75 uniformity.

Site location :-

River Academy
7 Richfield Avenue
Reading
Berkshire
RG1 8EQ

Partner for Contact:
Order No.:
Company:
Customer No.:

Date: 05.05.2026
Operator: Michael Butterill



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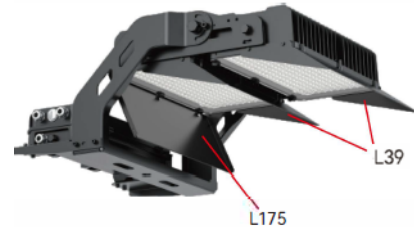
Unit 3 Ure Bank Maltigns, Ripon, HG4 1AE.

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Netball Courts 400lux River Academy

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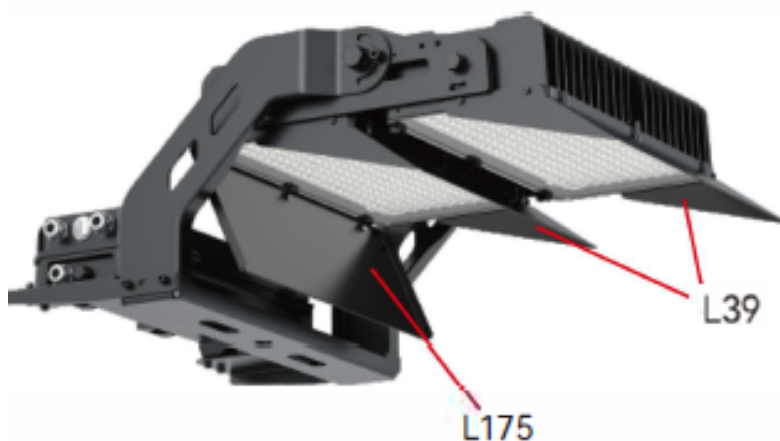
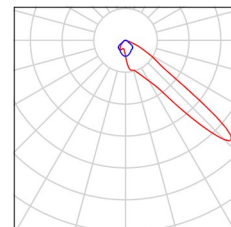
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Netball Courts 400lux River Academy / Luminaire parts list

16 Pieces SP04-800-5770-F04001X-L39-L175
Article No.:
Luminous flux (Luminaire): 97561 lm
Luminous flux (Lamps): 97561 lm
Luminaire Wattage: 803.7 W
Luminaire classification according to CIE: 100
CIE flux code: 45 94 100 100 100
Fitting: 1 x / (Correction Factor 1.000).

See our luminaire
catalog for an image of
the luminaire.





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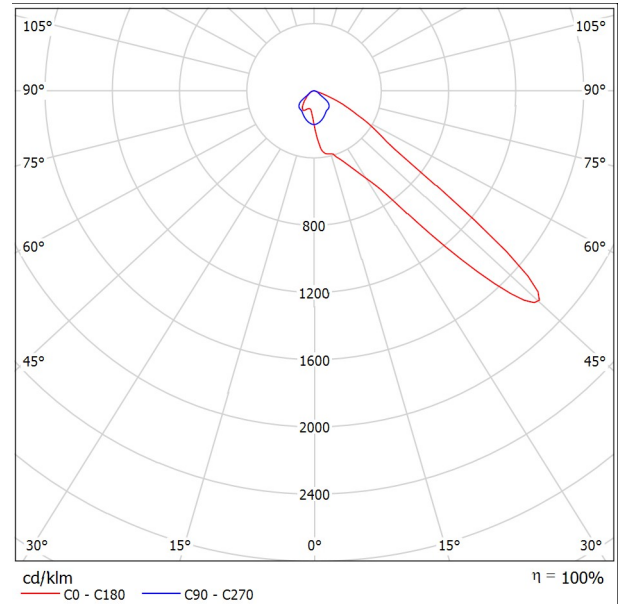
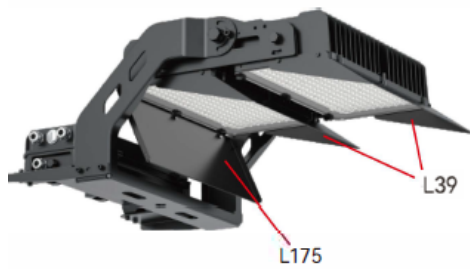
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SP04-800-5770-F04001X-L39-L175 / Luminaire Data Sheet

Luminous emittance 1:

See our luminaire catalog for an image of the luminaire.



Luminaire classification according to CIE: 100
CIE flux code: 45 94 100 100 100

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

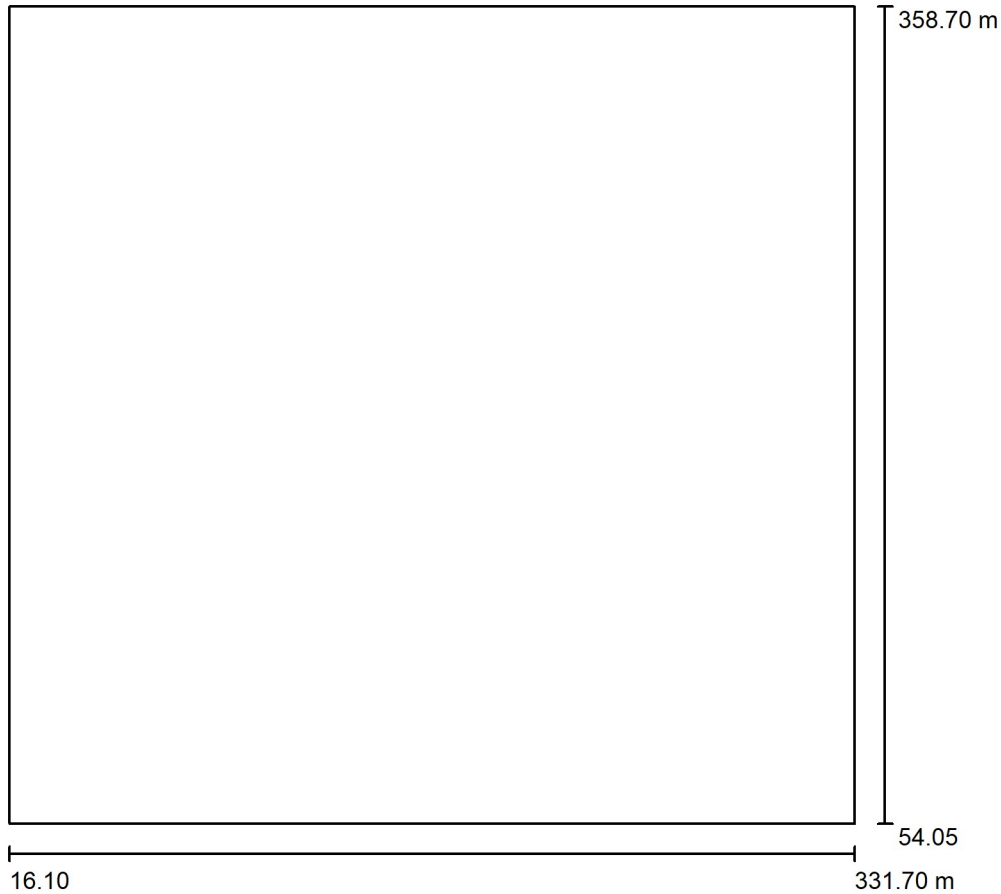


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Exterior Scene 1 / Planning data



Light loss factor: 0.95, ULR (Upward Light Ratio): 0.0%

Scale 1:2824

Luminaire Parts List

No.	Pieces	Designation (Correction Factor)	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
1	16	SP04-800-5770-F04001X-L39-L175 (1.000)	97561	97561	803.7
Total:			1560975	Total: 1560976	12858.7

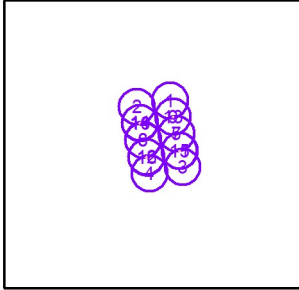
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Exterior Scene 1 / Luminaires (coordinates list)**SP04-800-5770-F04001X-L39-L175**

97561 lm, 803.7 W, 1 x 1 x / (Correction Factor 1.000).



No.	Position [m]			Rotation [°]		
	X	Y	Z	X	Y	Z
1	192.488	252.722	8.000	0.0	-14.1	-145.7
2	157.356	246.021	8.000	0.0	-14.1	-12.7
3	205.929	182.267	8.000	0.0	-14.1	167.3
4	170.797	175.565	8.000	0.0	-14.1	34.3
5	199.318	217.547	8.000	0.0	-15.9	167.1
6	163.955	210.802	8.000	0.0	-15.9	34.5
7	199.330	217.486	8.000	0.0	-15.9	-145.5
8	163.967	210.740	8.000	0.0	-15.9	-12.9
9	195.788	235.435	8.000	0.0	-15.0	-143.6
10	160.652	228.733	8.000	0.0	-15.0	-14.8
11	202.633	199.554	8.000	0.0	-15.0	165.2
12	167.497	192.852	8.000	0.0	-15.0	36.4
13	195.746	235.696	8.000	0.0	-13.0	170.8
14	160.595	228.991	8.000	0.0	-13.0	30.8
15	202.690	199.296	8.000	0.0	-13.0	-149.2
16	167.539	192.591	8.000	0.0	-13.0	-9.2



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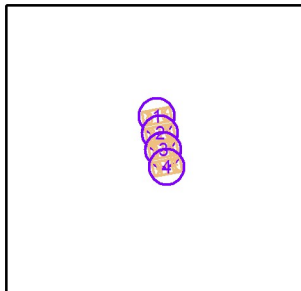
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Exterior Scene 1 / Sport Sites (Coordinates List)

Handball



No.	Position [m]			Size Playing Area [m]		Size Total Area [m]		Rotation [°]		
	X	Y	Z	L	W	L	W	X	Y	Z
1	176.400	241.000	0.000	30.000	15.000	36.000	17.000	0.0	0.0	-169.2
2	179.700	222.968	0.000	30.000	15.000	36.000	17.000	0.0	0.0	-169.2
3	183.100	205.100	0.000	30.000	15.000	36.000	17.000	0.0	0.0	-169.2
4	186.900	187.300	0.000	30.000	15.000	36.000	17.000	0.0	0.0	-169.2

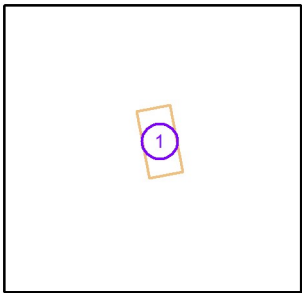


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Exterior Scene 1 / Sport Sites (Coordinates List)

General Sport Area



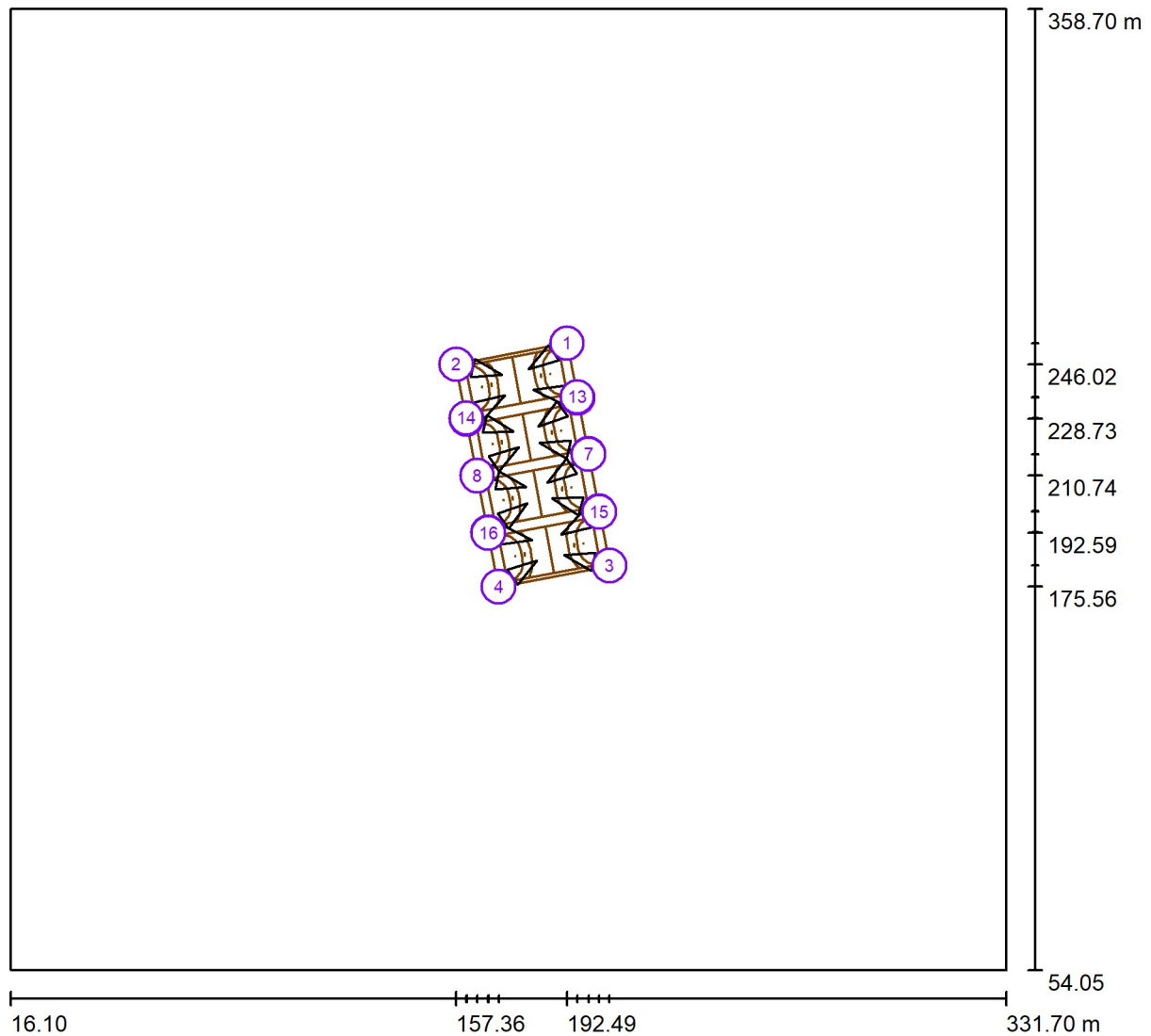
No.	Position [m]			Size Playing Area [m]		Size Total Area [m]		Rotation [°]		
	X	Y	Z	L	W	L	W	X	Y	Z
1	181.642	214.144	0.000	72.000	36.000	72.000	36.476	0.0	0.0	-79.1

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Exterior Scene 1 / Sport Luminaires (Coordinates List)



Scale 1 : 2257

List of the Sport Luminaires

Luminaire	Index	Position [m]			Aiming Point [m]			Angle [°]	Alignment	Pole
		X	Y	Z	X	Y	Z			
SP04-800-5770-F04001X-L39	1	192.488	252.722	8.000	180.268	244.400	0.000	28.4	(C 0, G IMax)	/
SP04-800-5770-F04001X-L39	2	157.356	246.021	8.000	171.782	242.781	0.000	28.4	(C 0, G IMax)	/
SP04-800-5770-F04001X-L39	3	205.929	182.267	8.000	191.503	185.506	0.000	28.4	(C 0, G IMax)	/
SP04-800-5770-F04001X-L39	4	170.797	175.565	8.000	183.017	183.887	0.000	28.4	(C 0, G IMax)	/

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Exterior Scene 1 / Sport Luminares (Coordinates List)

List of the Sport Luminares

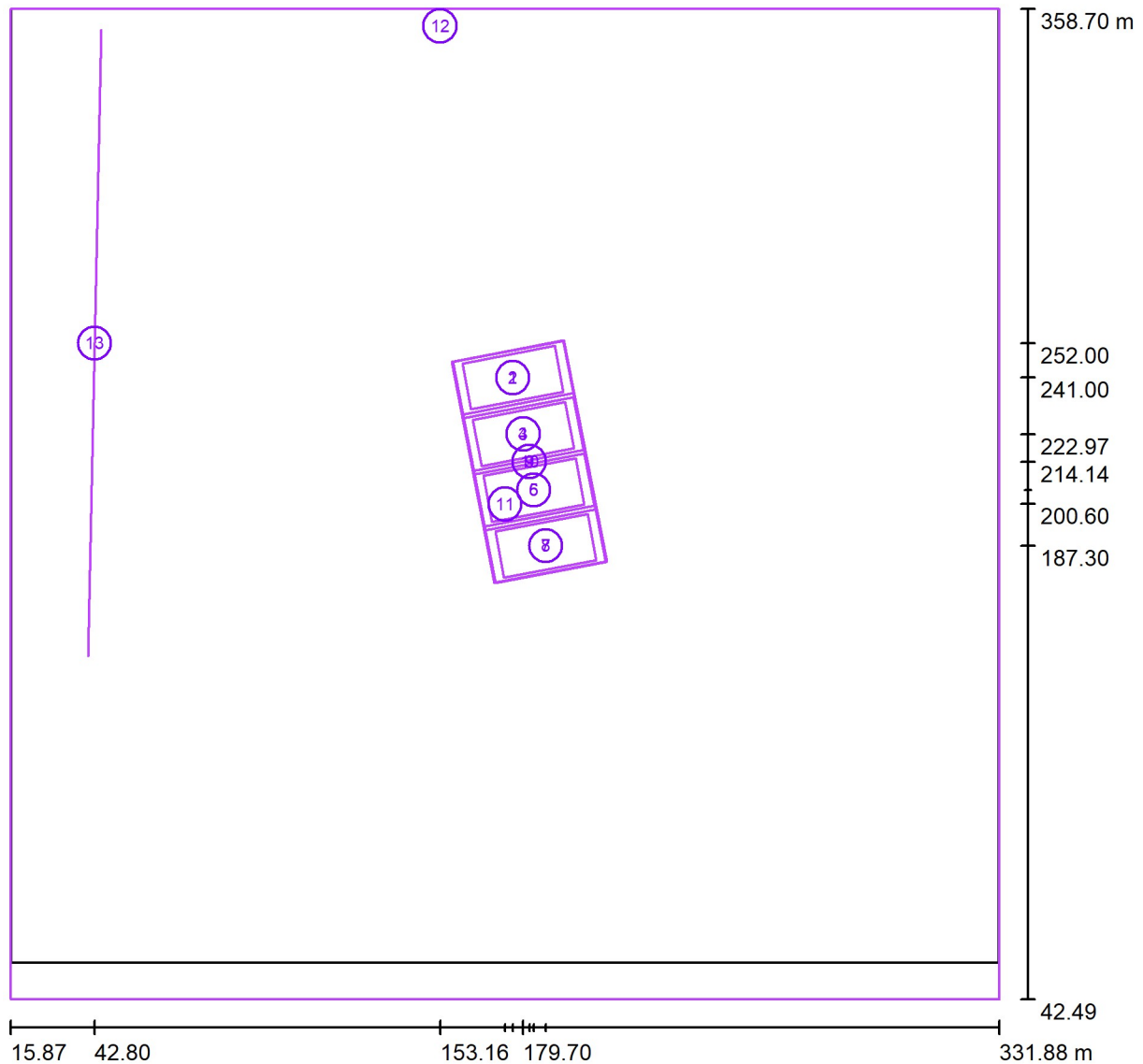
Luminaire	Index	Position [m]			Aiming Point [m]			Angle [°]	Alignment	Pole
		X	Y	Z	X	Y	Z			
SP04-800-5770-F04001X-L39	5	199.318	217.547	8.000	183.762	221.117	0.000	26.6	(C 0, G IMax)	/
SP04-800-5770-F04001X-L39	6	163.955	210.802	8.000	177.104	219.847	0.000	26.6	(C 0, G IMax)	/
SP04-800-5770-F04001X-L39	7	199.330	217.486	8.000	186.181	208.440	0.000	26.6	(C 0, G IMax)	/
SP04-800-5770-F04001X-L39	8	163.967	210.740	8.000	179.523	207.170	0.000	26.6	(C 0, G IMax)	/
SP04-800-5770-F04001X-L39	9	195.788	235.435	8.000	183.400	226.300	0.000	27.5	(C 0, G IMax)	/
SP04-800-5770-F04001X-L39	10	160.652	228.733	8.000	175.533	224.799	0.000	27.5	(C 0, G IMax)	/
SP04-800-5770-F04001X-L39	11	202.633	199.554	8.000	187.752	203.488	0.000	27.5	(C 0, G IMax)	/
SP04-800-5770-F04001X-L39	12	167.497	192.852	8.000	179.885	201.987	0.000	27.5	(C 0, G IMax)	/
SP04-800-5770-F04001X-L39	13	195.746	235.696	8.000	181.811	237.953	0.000	29.5	(C 0, G IMax)	/
SP04-800-5770-F04001X-L39	14	160.595	228.991	8.000	172.721	236.219	0.000	29.5	(C 0, G IMax)	/
SP04-800-5770-F04001X-L39	15	202.690	199.296	8.000	190.564	192.068	0.000	29.5	(C 0, G IMax)	/
SP04-800-5770-F04001X-L39	16	167.539	192.591	8.000	181.474	190.334	0.000	29.5	(C 0, G IMax)	/

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Exterior Scene 1 / Calculation Grid (Coordinates List)



Scale 1 : 2260

List of the Calculation Grids

No.	Designation	Position [m]			Size [m]		Rotation [°]		
		X	Y	Z	L	W	X	Y	Z
1	Netball Court 1 Calculation Grid (PA)	176.400	241.000	0.000	30.000	15.000	0.0	0.0	-169.2
2	Handball 1 Calculation Grid (TA)	176.400	241.000	0.000	36.000	17.000	0.0	0.0	-169.2
3	Netball Court 1 Calculation Grid (PA)	179.700	222.968	0.000	30.000	15.000	0.0	0.0	-169.2
4	Handball 1 Calculation Grid (TA)	179.700	222.968	0.000	36.000	17.000	0.0	0.0	-169.2



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Exterior Scene 1 / Calculation Grid (Coordinates List)

List of the Calculation Grids

No.	Designation	Position [m]			Size [m]		Rotation [°]		
		X	Y	Z	L	W	X	Y	Z
5	Netball Court 1 Calculation Grid (PA)	183.100	205.100	0.000	30.000	15.000	0.0	0.0	-169.2
6	Handball 1 Calculation Grid (TA)	183.100	205.100	0.000	36.000	17.000	0.0	0.0	-169.2
7	Netball Court 1 Calculation Grid (PA)	186.900	187.300	0.000	30.000	15.000	0.0	0.0	-169.2
8	Handball 1 Calculation Grid (TA)	186.900	187.300	0.000	36.000	17.000	0.0	0.0	-169.2
9	General Sport Area 1 Calculation Grid (PA)	181.642	214.144	0.000	72.000	36.000	0.0	0.0	-79.1
10	General Sport Area 1 Calculation Grid (TA)	181.642	214.144	0.000	72.000	36.476	0.0	0.0	-79.1
11	Calculation Grid 1	173.875	200.595	0.000	316.008	316.210	0.0	0.0	0.0
12	Veritcal Lux Grid 1	153.159	358.700	2.500	200.000	5.000	-90.0	0.0	-180.0
13	Veritcal Lux Grid 2	42.800	252.000	2.500	200.000	5.000	-90.0	0.0	-91.2

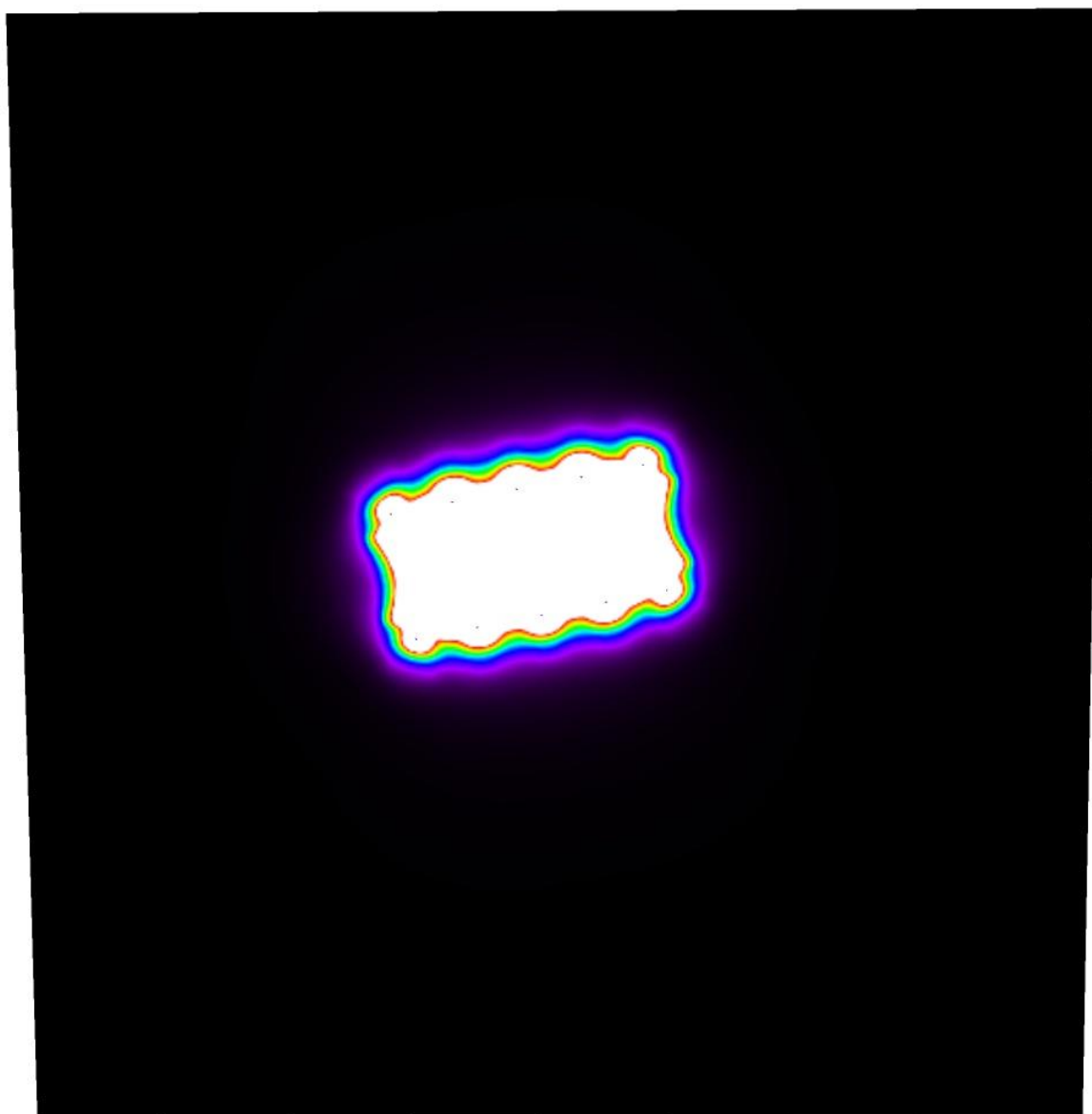


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Exterior Scene 1 / False Color Rendering



0 10 20 30 40 50 60 70 80 lx

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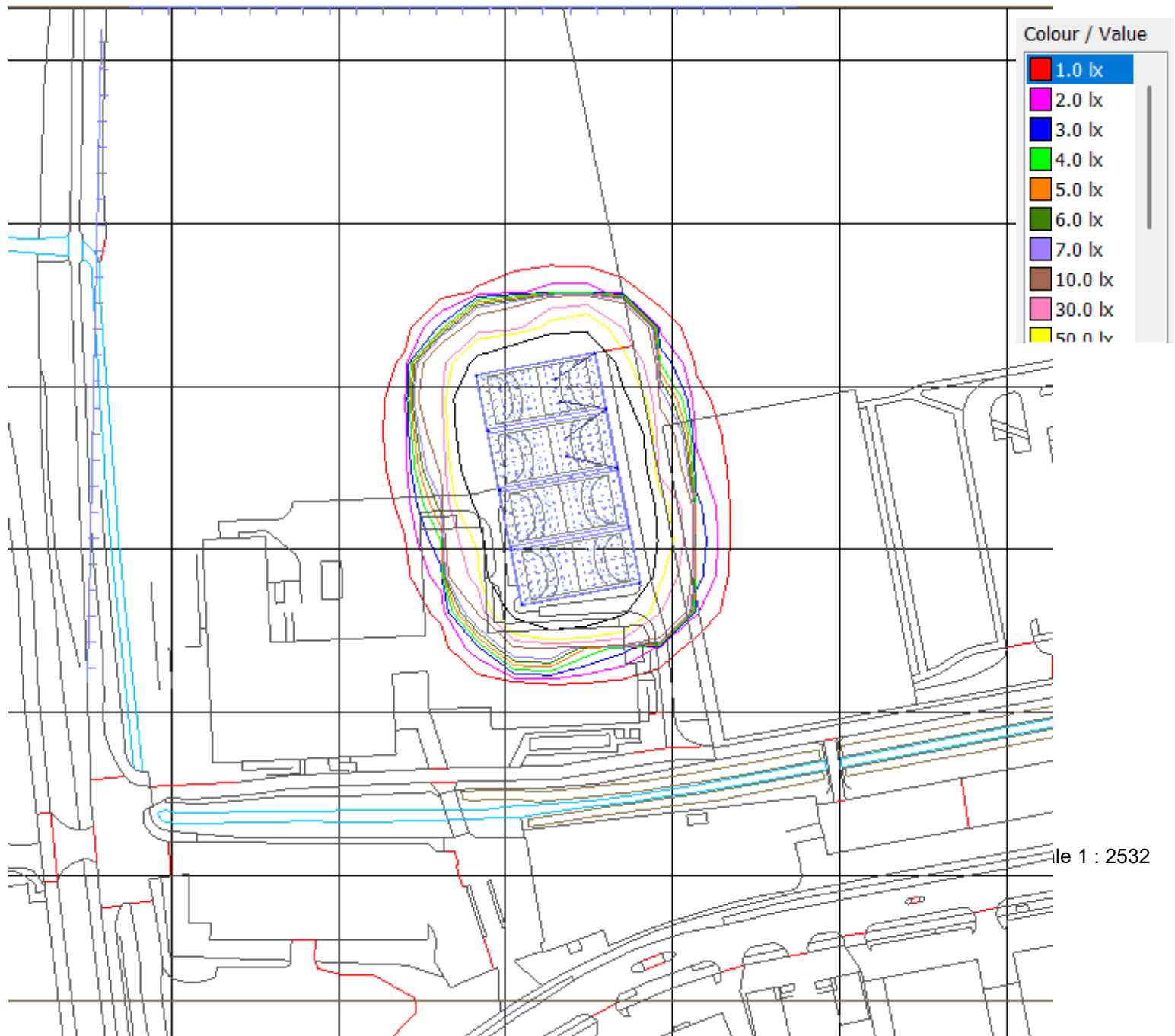
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Exterior Scene 1 / Calculation Grid 1 / Isolines (E, Perpendicular)



Grid: 29 x 29 Points

E_{av} [lx]
15

E_{min} [lx]
0.00

E_{max} [lx]
741

u_0
0.00

E_{min} / E_{max}
0.00



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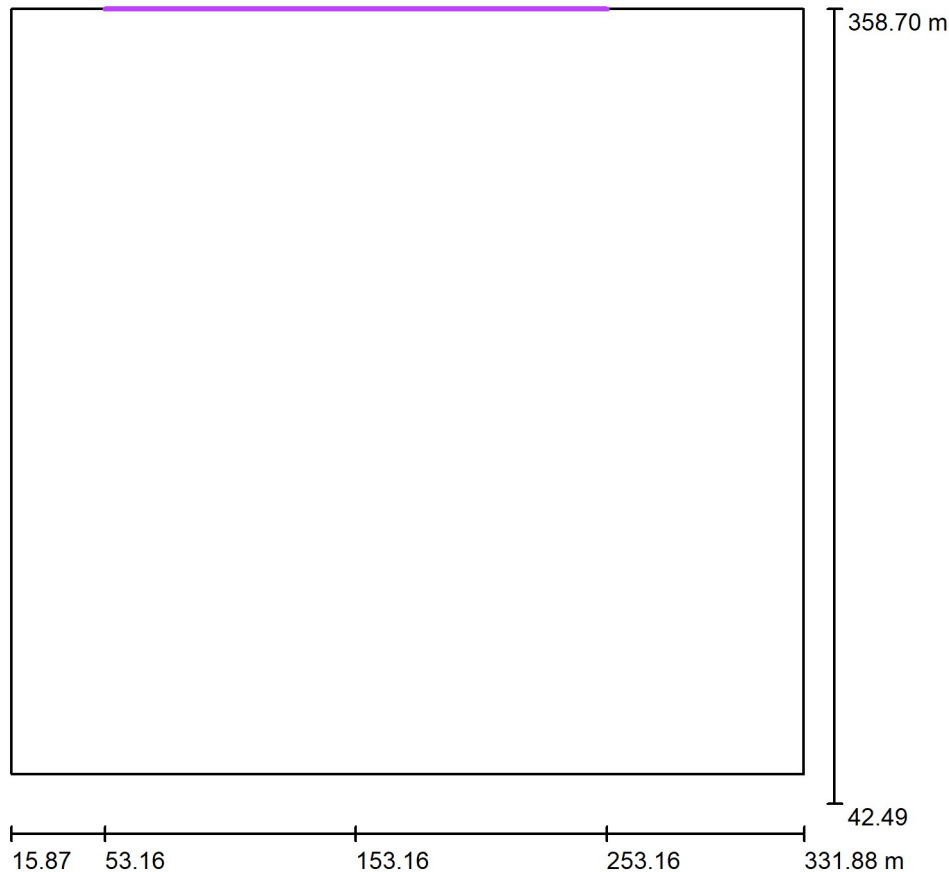
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Exterior Scene 1 / Veritcal Lux Grid 1 / Summary



Scale 1 : 3015

Position: (153.159 m, 358.700 m, 2.500 m)

Size: (200.000 m, 5.000 m)

Rotation: (-90.0°, 0.0°, -180.0°)

Type: Normal, Grid: 25 x 5 Points

Results overview

No.	Type	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	$u0$	E_{min} / E_{max}	$E_{h\ m} / E_m$	H [m]	Camera
1	perpendicular	0.15	0.04	0.28	0.28	0.15	/	0.000	/

 $E_{h\ m} / E_m$ = Relationship between middle horizontal and vertical illuminance, H = Measuring Height



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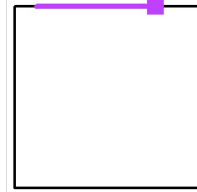
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Exterior Scene 1 / Vertical Lux Grid 1 / Table (E, Perpendicular)
☒ Current Selection

☐ Further Selections


Position of surface in external scene:
Marked point: (253.159 m,
358.700 m, 5.000 m)



4.500	0.10	0.10	0.10	0.11	0.11	0.11	0.11	0.11	0.11	0.11
3.500	0.12	0.13	0.13	0.14	0.14	0.15	0.15	0.15	0.15	0.15
2.500	0.14	0.15	0.16	0.17	0.18	0.18	0.19	0.19	0.19	0.19
1.500	0.17	0.18	0.19	0.20	0.21	0.22	0.23	0.23	0.24	0.24
0.500	0.19	0.21	0.22	0.24	0.25	0.26	0.27	<u>0.28</u>	<u>0.28</u>	<u>0.28</u>
m	4.000	12.000	20.000	28.000	36.000	44.000	52.000	60.000	68.000	76.000

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 25 x 5 Points

 E_{av} [lx]
0.15

 E_{min} [lx]
0.04

 E_{max} [lx]
0.28

 u_0
0.28

 E_{min} / E_{max}
0.15



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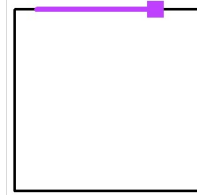
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Exterior Scene 1 / Veritcal Lux Grid 1 / Table (E, Perpendicular)

- ☒ Current Selection
- ☐ Further Selections



Position of surface in external scene:
Marked point: (253.159 m,
358.700 m, 5.000 m)



4.500	0.11	0.11	0.10	0.10	0.09	0.09	0.08	0.07	0.07	0.06
3.500	0.15	0.15	0.14	0.13	0.13	0.12	0.11	0.10	0.09	0.08
2.500	0.19	0.19	0.18	0.17	0.16	0.15	0.14	0.13	0.12	0.11
1.500	0.23	0.23	0.22	0.21	0.20	0.18	0.17	0.15	0.14	0.13
0.500	<u>0.28</u>	0.27	0.26	0.25	0.23	0.22	0.20	0.18	0.17	0.15
m	84.000	92.000	100.000	108.000	116.000	124.000	132.000	140.000	148.000	156.000

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 25 x 5 Points

E_{av} [lx]
0.15

E_{min} [lx]
0.04

E_{max} [lx]
0.28

u0
0.28

E_{min} / E_{max}
0.15



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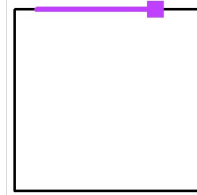
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Exterior Scene 1 / Veritcal Lux Grid 1 / Table (E, Perpendicular)
☒ Current Selection

☐ Further Selections


Position of surface in external scene:
Marked point: (253.159 m,
358.700 m, 5.000 m)



4.500	0.06	0.05	0.05	<u>0.04</u>	<u>0.04</u>
3.500	0.08	0.07	0.06	0.06	0.05
2.500	0.10	0.09	0.08	0.07	0.06
1.500	0.12	0.11	0.10	0.09	0.08
0.500	0.14	0.12	0.11	0.10	0.09
m	164.000	172.000	180.000	188.000	196.000

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 25 x 5 Points

 E_{av} [lx]
0.15

 E_{min} [lx]
0.04

 E_{max} [lx]
0.28

 u_0
0.28

 E_{min} / E_{max}
0.15



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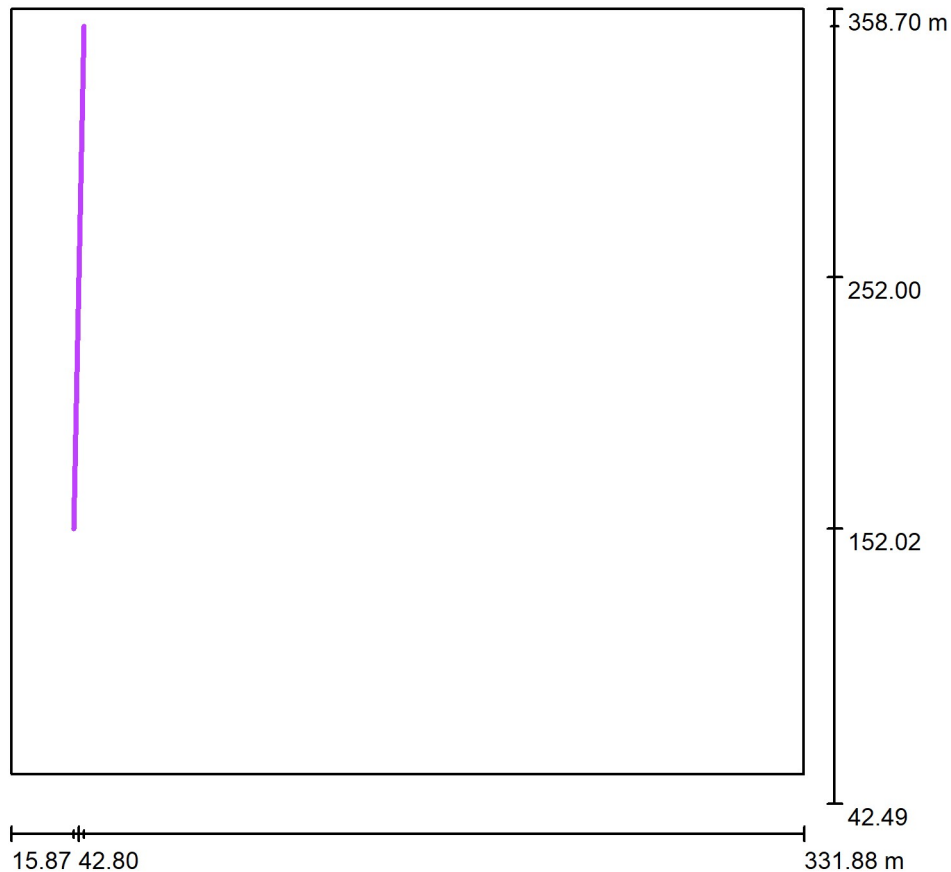
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Exterior Scene 1 / Veritcal Lux Grid 2 / Summary



Scale 1 : 3015

Position: (42.800 m, 252.000 m, 2.500 m)

Size: (200.000 m, 5.000 m)

Rotation: (-90.0°, 0.0°, -91.2°)

Type: Normal, Grid: 25 x 5 Points

Results overview

No.	Type	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	$u0$	E_{min} / E_{max}	$E_{h\ m} / E_m$	H [m]	Camera
1	perpendicular	0.28	0.05	0.42	0.18	0.12	/	0.000	/

 $E_{h\ m} / E_m$ = Relationship between middle horizontal and vertical illuminance, H = Measuring Height



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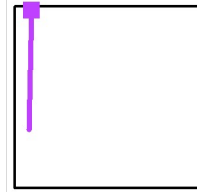
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Exterior Scene 1 / Veritcal Lux Grid 2 / Table (E, Perpendicular)

- ☒ Current Selection
- ☐ Further Selections



Position of surface in external scene:
Marked point: (44.894 m, 351.978 m,
5.000 m)



4.500	<u>0.05</u>	0.06	0.07	0.09	0.10	0.13	0.16	0.20	0.24	0.28
3.500	0.06	0.07	0.08	0.10	0.12	0.14	0.17	0.20	0.24	0.28
2.500	0.07	0.08	0.09	0.11	0.13	0.15	0.18	0.21	0.25	0.28
1.500	0.08	0.09	0.11	0.12	0.14	0.17	0.19	0.22	0.26	0.29
0.500	0.09	0.11	0.12	0.14	0.16	0.18	0.21	0.24	0.27	0.30
m	4.000	12.000	20.000	28.000	36.000	44.000	52.000	60.000	68.000	76.000

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 25 x 5 Points

E_{av} [lx]
0.28

E_{min} [lx]
0.05

E_{max} [lx]
0.42

u0
0.18

E_{min} / E_{max}
0.12

Direct Sports Lighting

Unit 3 Ure Bank Maltigns, Ripon, HG4 1AE.

Operator Michael Butterill

Telephone 0845 643 0722

Fax

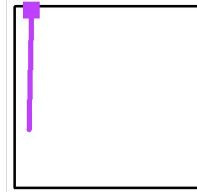
e-Mail sales@directsportslighting.co.uk

Exterior Scene 1 / Veritcal Lux Grid 2 / Table (E, Perpendicular)

- ☒ Current Selection
- ☐ Further Selections



Position of surface in external scene:
Marked point: (44.894 m, 351.978 m,
5.000 m)



4.500	0.32	0.36	0.39	0.41	<u>0.42</u>	<u>0.42</u>	0.41	0.39	0.36	0.34
3.500	0.32	0.35	0.38	0.40	0.41	<u>0.42</u>	0.40	0.38	0.36	0.34
2.500	0.32	0.35	0.38	0.40	0.41	0.41	0.40	0.39	0.37	0.35
1.500	0.32	0.35	0.37	0.39	0.41	0.41	0.41	0.39	0.37	0.35
0.500	0.33	0.36	0.38	0.40	<u>0.42</u>	<u>0.42</u>	<u>0.42</u>	0.40	0.38	0.37
m	84.000	92.000	100.000	108.000	116.000	124.000	132.000	140.000	148.000	156.000

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 25 x 5 Points

E_{av} [lx]
0.28

E_{min} [lx]
0.05

E_{max} [lx]
0.42

u0
0.18

E_{min} / E_{max}
0.12



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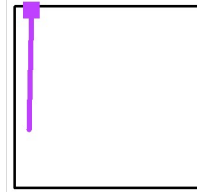
e-Mail sales@directsportslighting.co.uk

Exterior Scene 1 / Veritcal Lux Grid 2 / Table (E, Perpendicular)

- ☒ Current Selection
- ☐ Further Selections



Position of surface in external scene:
Marked point: (44.894 m, 351.978 m,
5.000 m)



4.500	0.33	0.31	0.30	0.29	0.28
3.500	0.32	0.31	0.30	0.29	0.28
2.500	0.33	0.31	0.30	0.29	0.28
1.500	0.34	0.32	0.31	0.30	0.29
0.500	0.35	0.33	0.32	0.31	0.29
m	164.000	172.000	180.000	188.000	196.000

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 25 x 5 Points

 E_{av} [lx]
0.28

 E_{min} [lx]
0.05

 E_{max} [lx]
0.42

 u_0
0.18

 E_{min} / E_{max}
0.12