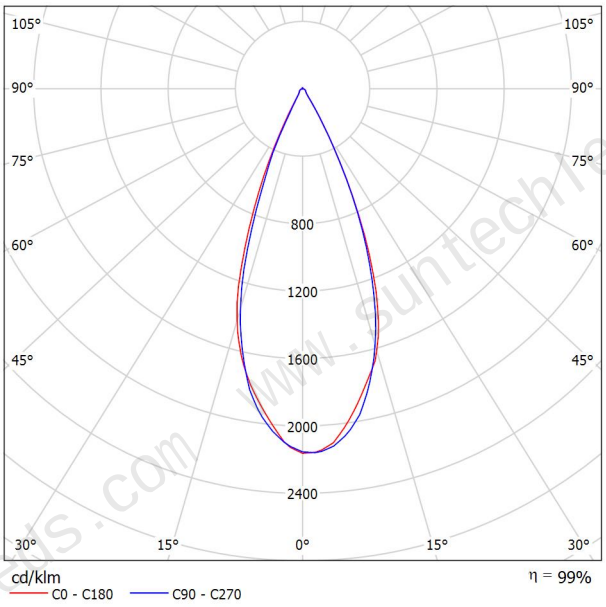
DIALux
22.10.2022

Operator
Telephone
Fax
e-Mail

LSHM-480W-LV(57K)PRO 40 / Luminaire Data Sheet

See our luminaire catalog for an image of the luminaire.

Luminous emittance 1:



Luminaire classification according to CIE: 99
CIE flux code: 93 97 99 99 99

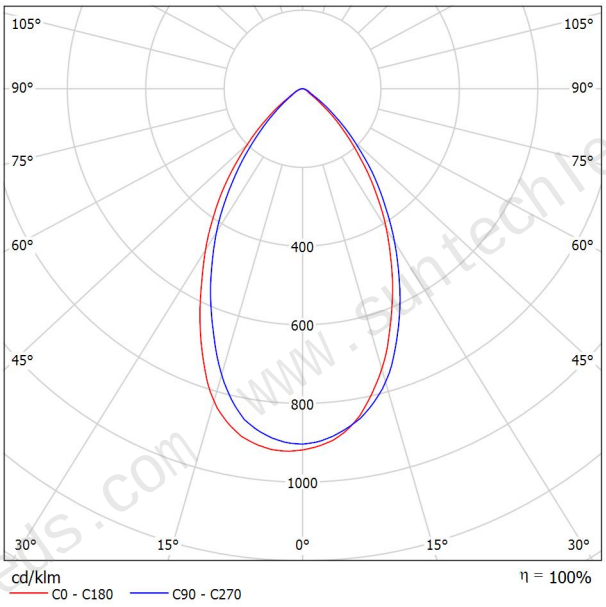
Due to missing symmetry properties, no UGR table can be displayed for this luminaire.

Operator
Telephone
Fax
e-Mail

LSHM-480W-LV(57K)PRO 60 / Luminaire Data Sheet

See our luminaire catalog for an image of the luminaire.

Luminous emittance 1:



Luminaire classification according to CIE: 100
CIE flux code: 81 97 99 100 100

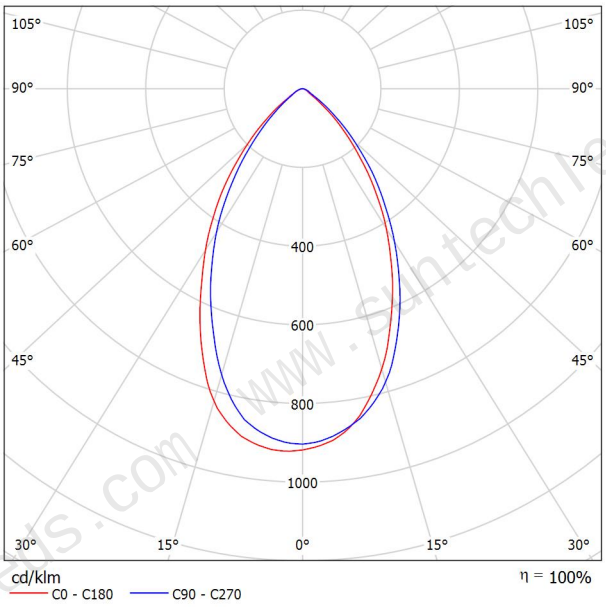
Due to missing symmetry properties, no UGR table can be displayed for this luminaire.

Operator
Telephone
Fax
e-Mail

LSHM-B960W-LV(57K)PRO 60 / Luminaire Data Sheet

See our luminaire catalog for an image of the luminaire.

Luminous emittance 1:



Luminaire classification according to CIE: 100
CIE flux code: 81 97 99 100 100

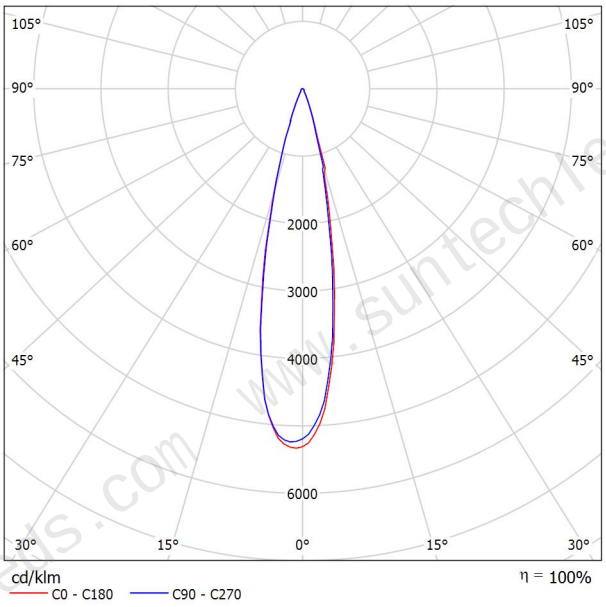
Due to missing symmetry properties, no UGR table can be displayed for this luminaire.

Operator
Telephone
Fax
e-Mail

LSHM-B960W-LV(57K)PRO 20 / Luminaire Data Sheet

See our luminaire catalog for an image of the luminaire.

Luminous emittance 1:

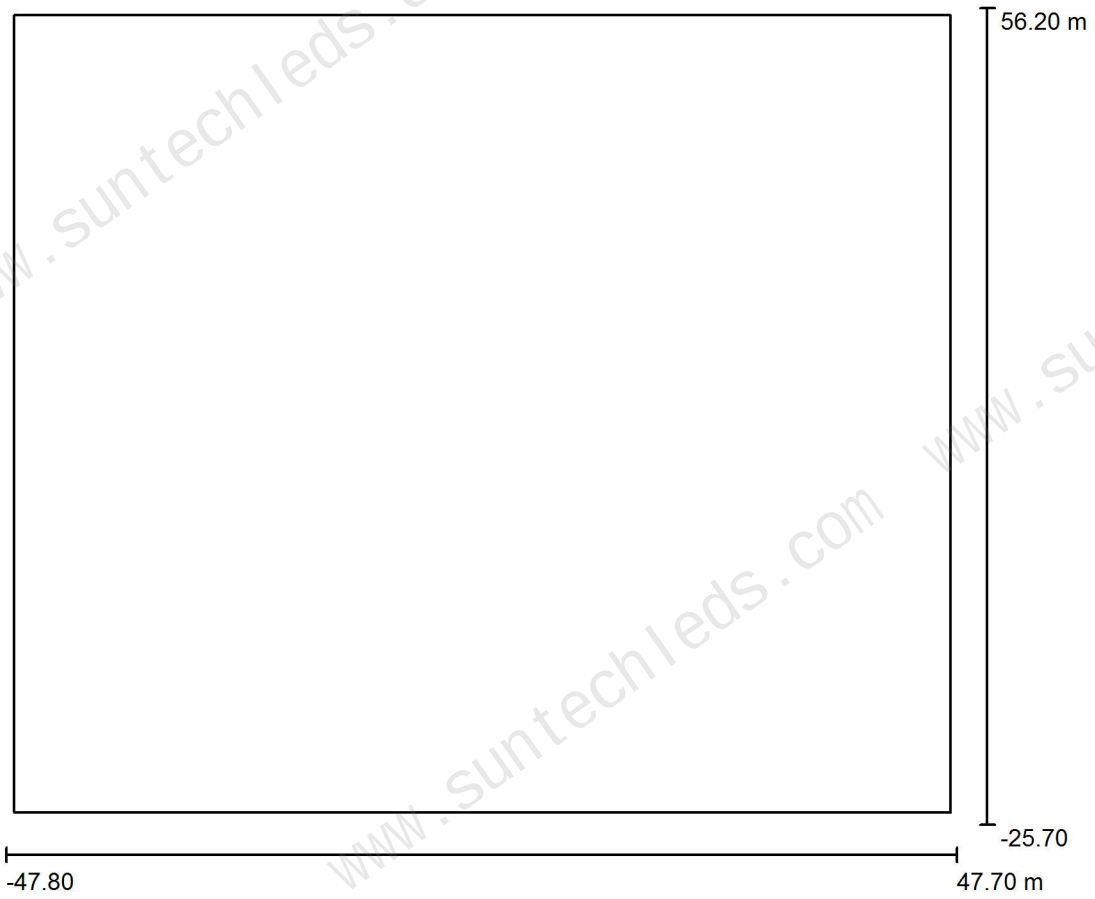


Luminaire classification according to CIE: 100
CIE flux code: 91 96 99 100 100

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

Operator
Telephone
Fax
e-Mail

Exterior Scene 1 / Planning data



Maintenance factor: 0.80, ULR (Upward Light Ratio): 17.5%

Scale 1:760

Luminaire Parts List

No.	Pieces	Designation (Correction Factor)	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
1	3	LSHM-480W-LV(57K)PRO 40 (1.000)	74987	75475	479.5
2	4	LSHM-480W-LV(57K)PRO 60 (1.000)	75145	75229	478.2
3	2	LSHM-B960W-LV(57K)PRO 20 (1.000)	152112	152297	959.0
4	7	LSHM-B960W-LV(57K)PRO 60 (1.000)	153657	153829	958.3
		Total:	1905364	Total: 1908736	11977.4

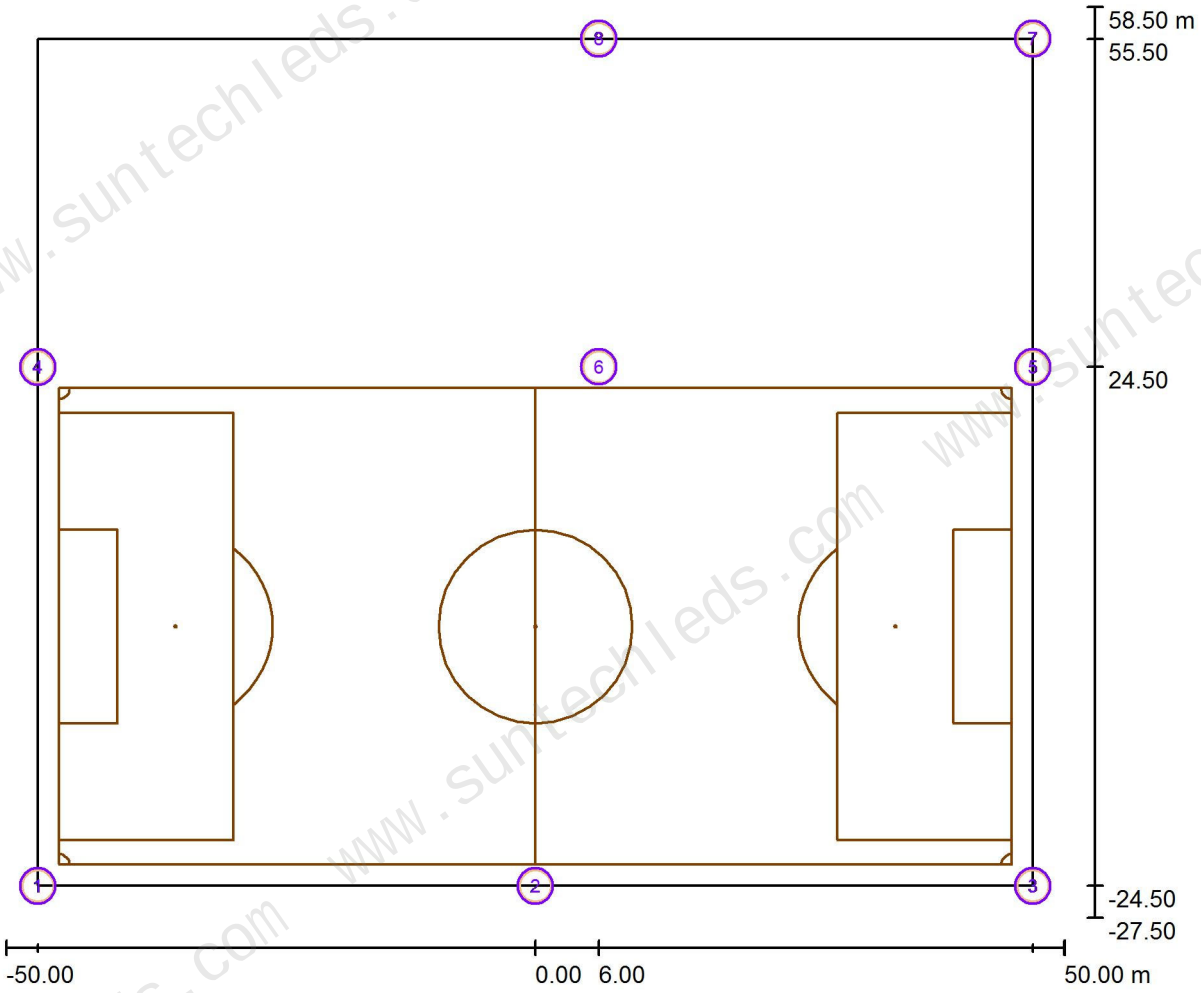
Operator
Telephone
Fax
e-Mail

Exterior Scene 1 / Luminaire parts list

3 Pieces	LSHM-480W-LV(57K)PRO 40 Article No.: LSHM-480W-LV(57K)PRO 40 Luminous flux (Luminaire): 74987 lm Luminous flux (Lamps): 75475 lm Luminaire Wattage: 479.5 W Luminaire classification according to CIE: 99 CIE flux code: 93 97 99 99 99 Fitting: 1 x 5050 (Correction Factor 1.000).	See our luminaire catalog for an image of the luminaire.
4 Pieces	LSHM-480W-LV(57K)PRO 60 Article No.: LSHM-480W-LV(57K)PRO 60 Luminous flux (Luminaire): 75145 lm Luminous flux (Lamps): 75229 lm Luminaire Wattage: 478.2 W Luminaire classification according to CIE: 100 CIE flux code: 81 97 99 100 100 Fitting: 1 x 5050 (Correction Factor 1.000).	See our luminaire catalog for an image of the luminaire.
2 Pieces	LSHM-B960W-LV(57K)PRO 20 Article No.: LSHM-B960W-LV(57K)PRO 20 Luminous flux (Luminaire): 152112 lm Luminous flux (Lamps): 152297 lm Luminaire Wattage: 959.0 W Luminaire classification according to CIE: 100 CIE flux code: 91 96 99 100 100 Fitting: 1 x 5050 (Correction Factor 1.000).	See our luminaire catalog for an image of the luminaire.
7 Pieces	LSHM-B960W-LV(57K)PRO 60 Article No.: LSHM-B960W-LV(57K)PRO 60 Luminous flux (Luminaire): 153657 lm Luminous flux (Lamps): 153829 lm Luminaire Wattage: 958.3 W Luminaire classification according to CIE: 100 CIE flux code: 81 97 99 100 100 Fitting: 1 x 5050 (Correction Factor 1.000).	See our luminaire catalog for an image of the luminaire.

Operator
Telephone
Fax
e-Mail

Exterior Scene 1 / Pole Positions (Coordinates List)



Scale 1 : 715

List of the Pole Positions

No.	Designation	Position [m]		
		X	Y	Z
1	Pole Position 1	-47.000	-24.500	0.000
2	Pole Position 2	0.000	-24.500	0.000
3	Pole Position 3	47.000	-24.500	0.000
4	Pole Position 4	-47.000	24.500	0.000

Operator
Telephone
Fax
e-Mail

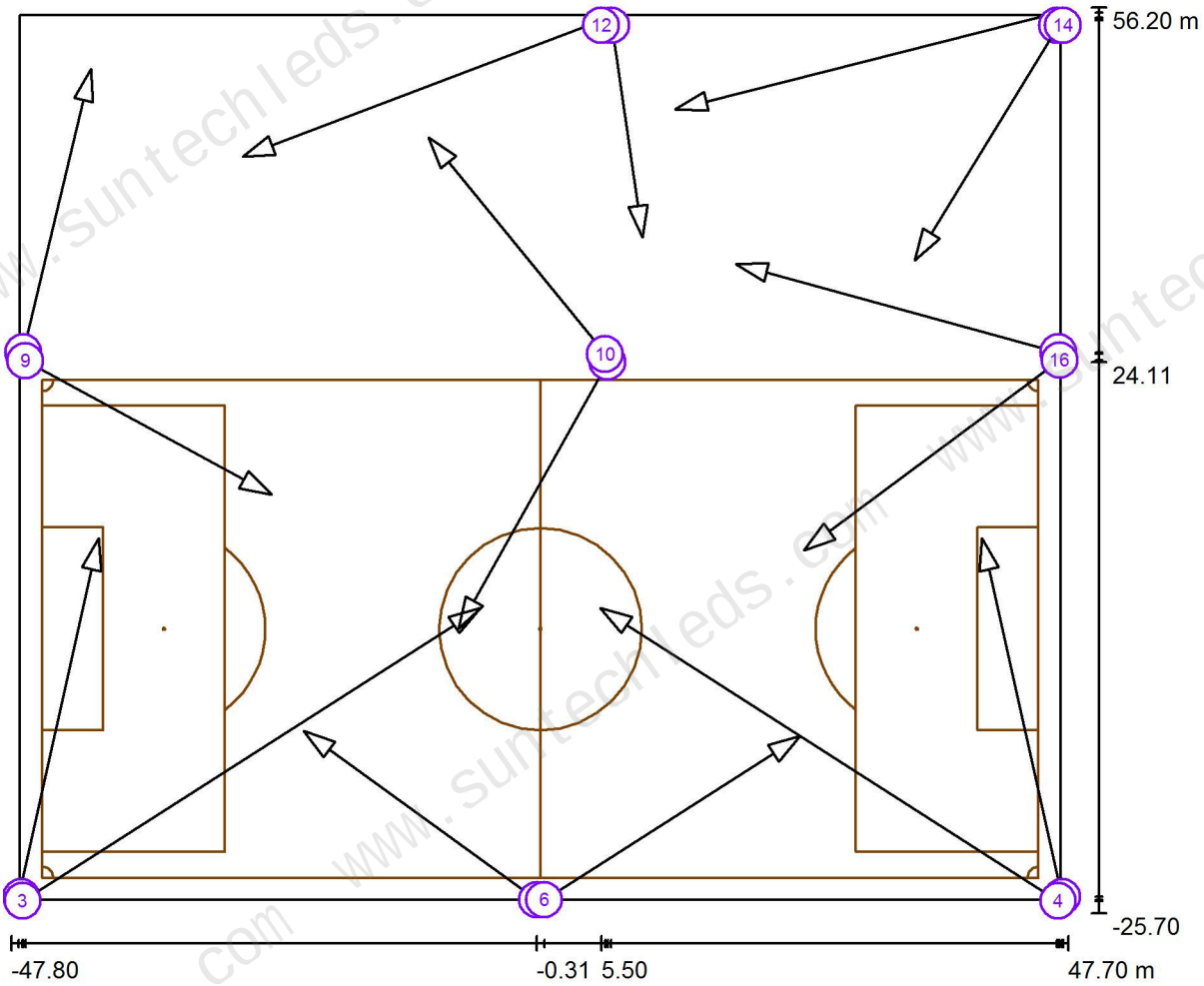
Exterior Scene 1 / Pole Positions (Coordinates List)

List of the Pole Positions

No.	Designation	Position [m]		
		X	Y	Z
5	Pole Position 5	47.000	24.500	0.000
6	Pole Position 6	6.000	24.508	0.000
7	Pole Position 7	47.000	55.500	0.000
8	Pole Position 8	6.002	55.500	0.000

Operator
Telephone
Fax
e-Mail

Exterior Scene 1 / Sport Luminaires (Coordinates List)



Scale 1 : 683

List of the Sport Luminaires

Luminaire	Index	Position [m]			Aiming Point [m]			Angle [°]	Alignment	Pole
		X	Y	Z	X	Y	Z			
LSHM-B960W-LV(57K) PRO 60	1	-47.134	-24.212	10.000	-39.900	8.200	0.000	16.8	(C 90, G IMax)	Pole Position 1
LSHM-B960W-LV(57K) PRO 60	2	47.134	-24.212	10.000	39.900	8.200	0.000	16.8	(C 90, G IMax)	Pole Position 3
LSHM-B960W-LV(57K) PRO 20	3	-46.771	-24.600	10.000	-5.400	1.900	0.000	11.5	(C 90, G IMax)	Pole Position 1
LSHM-B960W-LV(57K) PRO 20	4	46.771	-24.600	10.000	5.400	1.900	0.000	11.5	(C 90, G IMax)	Pole Position 3

Operator
Telephone
Fax
e-Mail

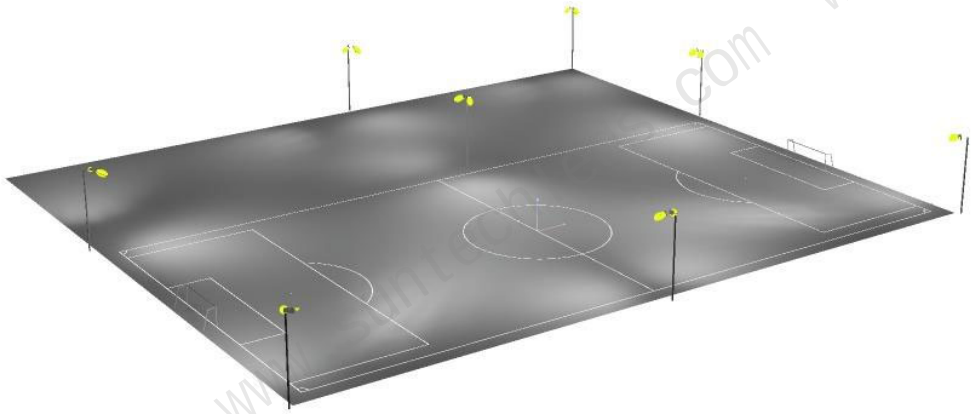
Exterior Scene 1 / Sport Luminaires (Coordinates List)

List of the Sport Luminaires

Luminaire	Index	Position [m]			Aiming Point [m]			Angle [°]	Alignment	Pole
		X	Y	Z	X	Y	Z			
LSHM-B960W-LV(57K) PRO 60	5	-0.311	-24.500	10.000	-21.400	-9.200	0.000	21.0	(C 90, G IMax)	Pole Position 2
LSHM-B960W-LV(57K) PRO 60	6	0.354	-24.500	10.000	23.471	-9.700	0.000	20.0	(C 90, G IMax)	Pole Position 2
LSHM-B960W-LV(57K) PRO 60	7	6.082	24.106	10.000	-7.375	0.017	0.000	19.9	(C 90, G IMax)	Pole Position 6
LSHM-480W-LV(57K) PRO 40	8	-46.700	25.000	10.000	-40.600	50.600	0.000	20.8	(C 90, G IMax)	Pole Position 4
LSHM-B960W-LV(57K) PRO 60	9	-46.500	24.241	10.000	-24.288	12.146	0.000	21.6	(C 90, G IMax)	Pole Position 4
LSHM-480W-LV(57K) PRO 60	10	5.834	24.857	10.000	-10.112	44.437	0.000	21.6	(C 90, G IMax)	Pole Position 6
LSHM-480W-LV(57K) PRO 60	11	6.400	55.100	10.000	9.200	35.400	0.000	26.7	(C 90, G IMax)	Pole Position 8
LSHM-480W-LV(57K) PRO 40	12	5.500	55.000	10.000	-26.900	42.700	0.000	16.1	(C 90, G IMax)	Pole Position 8
LSHM-480W-LV(57K) PRO 40	13	46.672	55.700	10.000	12.200	47.000	0.000	15.7	(C 90, G IMax)	Pole Position 7
LSHM-480W-LV(57K) PRO 60	14	47.200	55.235	10.000	33.800	33.300	0.000	21.3	(C 90, G IMax)	Pole Position 7
LSHM-480W-LV(57K) PRO 60	15	46.800	25.000	10.000	17.655	33.000	0.000	18.3	(C 90, G IMax)	Pole Position 5
LSHM-B960W-LV(57K) PRO 60	16	46.900	24.300	10.000	23.800	7.100	0.000	19.1	(C 90, G IMax)	Pole Position 5

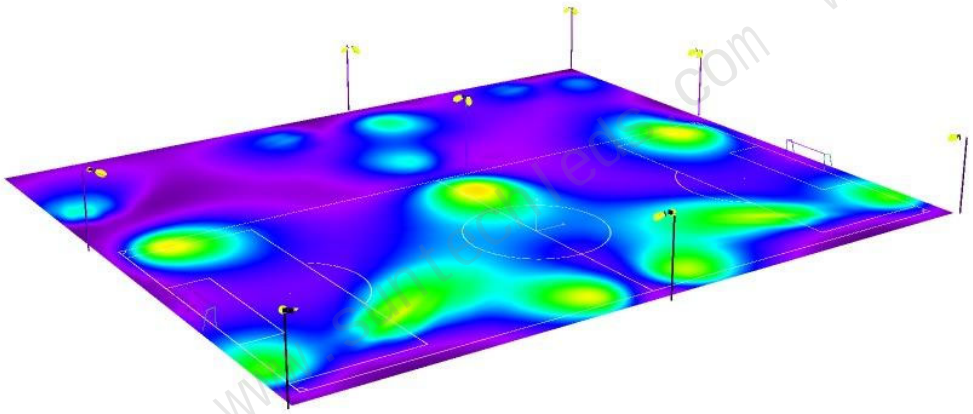
Operator
Telephone
Fax
e-Mail

Exterior Scene 1 / 3D Rendering



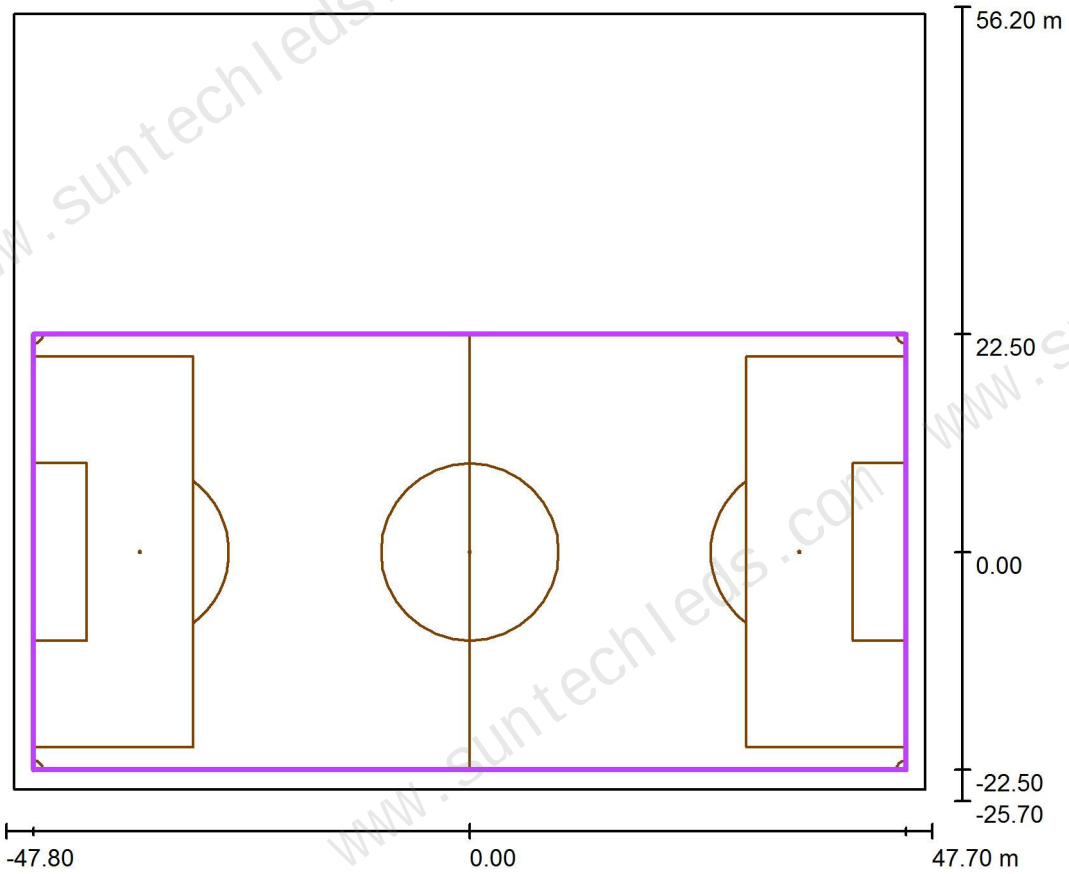
Operator
Telephone
Fax
e-Mail

Exterior Scene 1 / False Colour Rendering



Operator
Telephone
Fax
e-Mail

Exterior Scene 1 / Soccer Field 1 Calculation Grid (PA) / Summary



Scale 1 : 781

Position: (0.000 m, 0.000 m, 0.000 m)
Size: (90.000 m, 45.000 m)
Rotation: (0.0°, 0.0°, 0.0°)
Type: Normal, Grid: 19 x 9 Points
Belongs to the following sport arena: Soccer Field 1

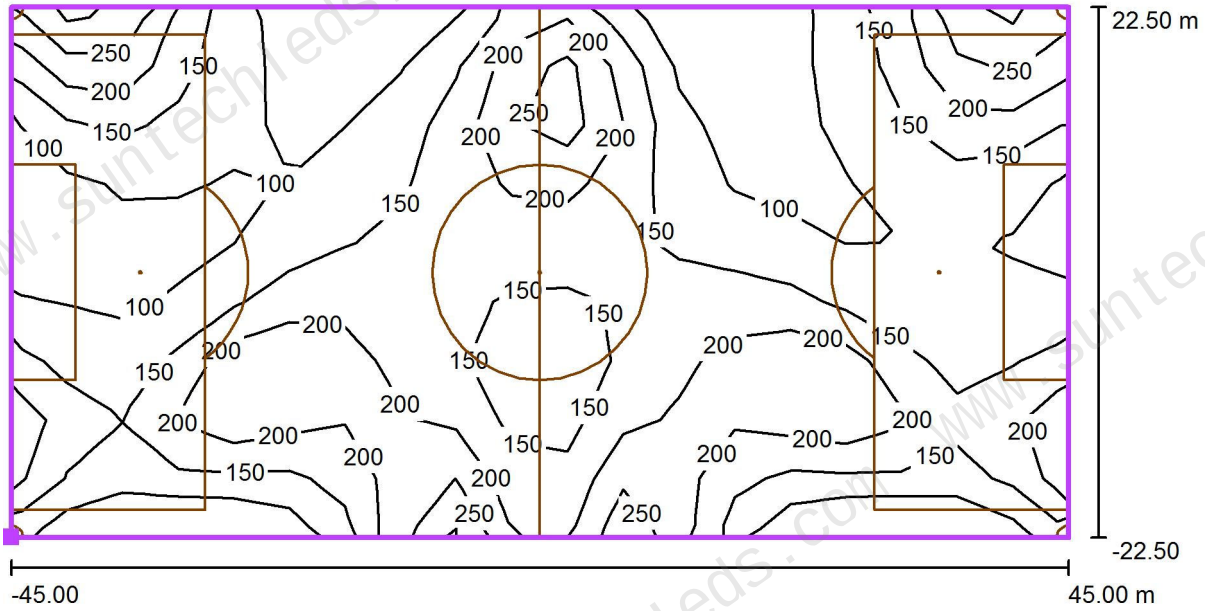
Results overview

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	154	69	315	0.45	0.22	/	0.000	/

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

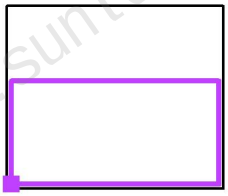
Operator
Telephone
Fax
e-Mail

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



Values in Lux, Scale 1 : 644

Position of surface in external scene:
Marked point: (-45.000 m, -22.500 m, 0.000 m)

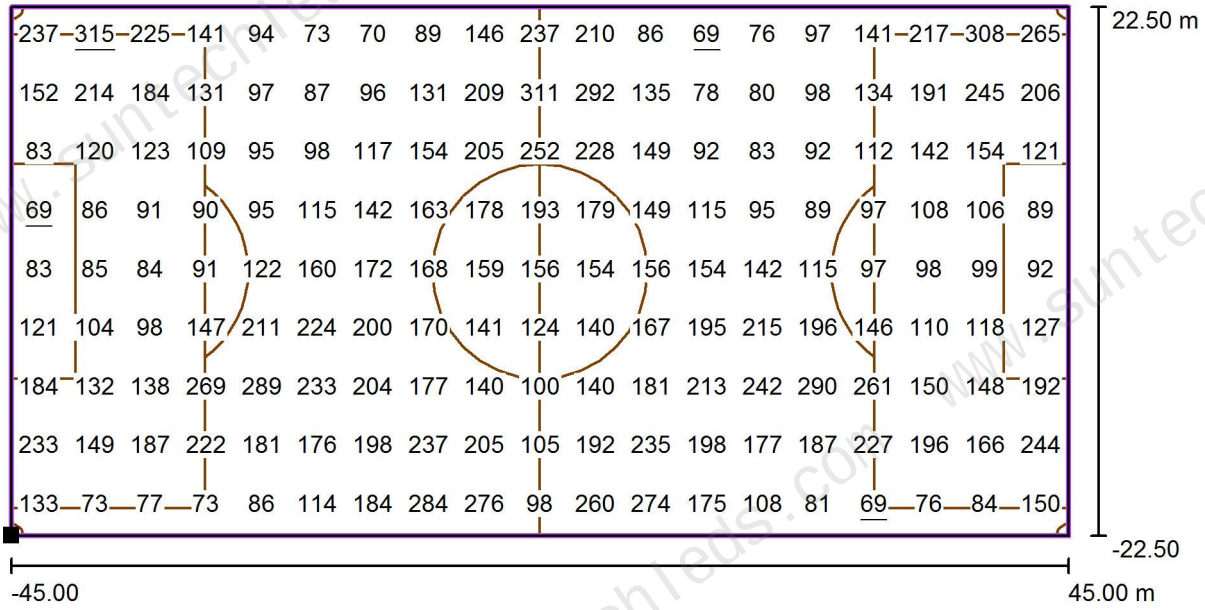


Grid: 19 x 9 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
154	69	315	0.45	0.22

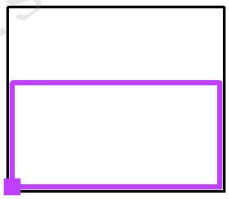
Operator
Telephone
Fax
e-Mail

Exterior Scene 1 / Soccer Field 1 Calculation Grid (PA) / Value Chart (E, Perpendicular)



Values in Lux, Scale 1 : 644

Position of surface in external scene:
Marked point: (-45.000 m, -22.500 m, 0.000 m)

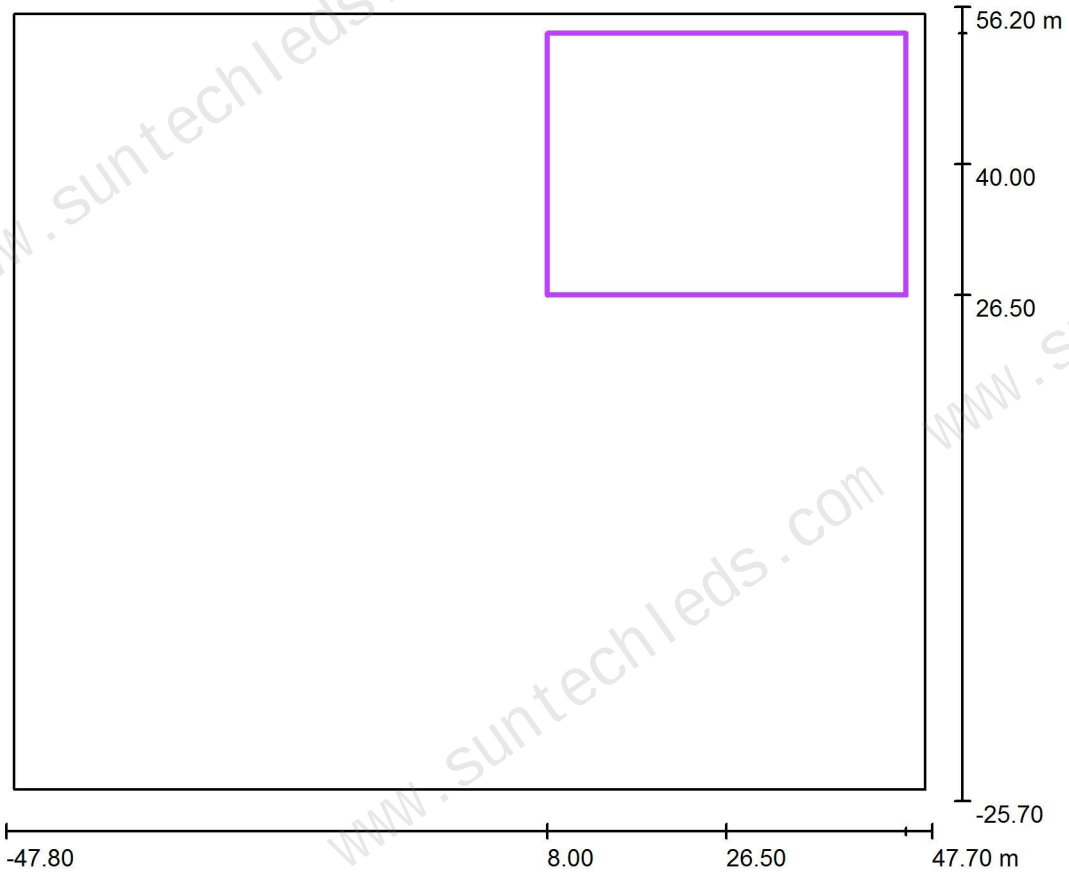


Grid: 19 x 9 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
154	69	315	0.45	0.22

Operator
Telephone
Fax
e-Mail

Exterior Scene 1 / Calculation Grid 1 / Summary



Scale 1 : 781

Position: (26.500 m, 40.000 m, 0.000 m)
Size: (37.000 m, 27.000 m)
Rotation: (0.0°, 0.0°, 0.0°)
Type: Normal, Grid: 15 x 11 Points

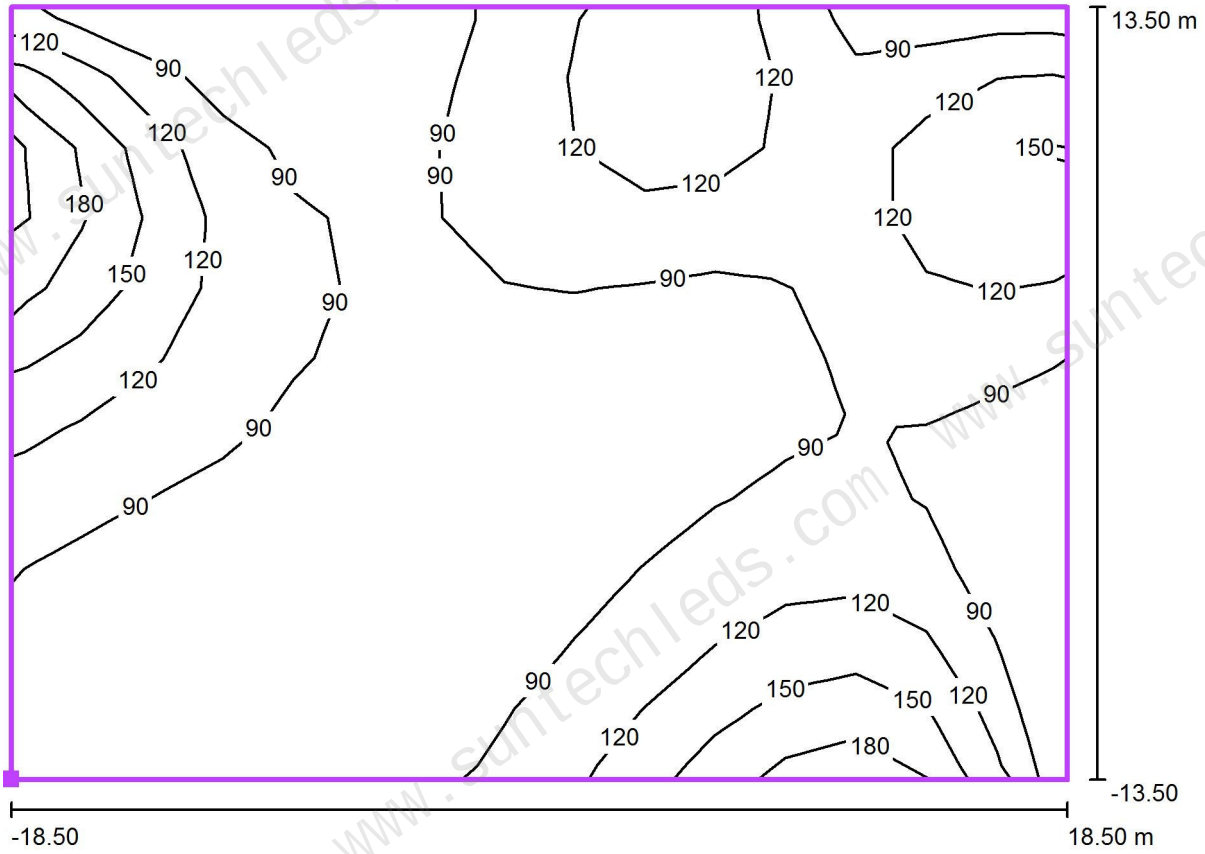
Results overview

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	100	60	207	0.60	0.29	/	0.000	/

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

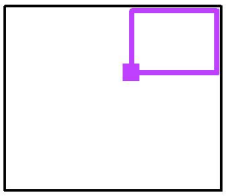
Operator
Telephone
Fax
e-Mail

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



Values in Lux, Scale 1 : 265

Position of surface in external scene:
Marked point: (8.000 m, 26.500 m, 0.000 m)



Grid: 15 x 11 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
100	60	207	0.60	0.29

Operator
Telephone
Fax
e-Mail

Exterior Scene 1 / Calculation Grid 1 / Value Chart (E, Perpendicular)

116	90	68	61	64	75	88	108	132	146	131	92	81	96	95
187	145	102	80	75	82	94	113	135	151	137	103	111	139	147
207	165	124	97	85	86	94	108	122	127	115	102	121	148	152
195	163	127	102	89	86	90	97	100	96	88	96	117	134	132
164	145	119	100	89	86	86	85	81	77	80	91	104	112	106
134	121	107	94	85	82	80	77	74	75	81	88	93	93	84
112	101	93	85	79	75	74	73	75	80	86	91	90	82	68
94	84	81	76	72	70	71	74	81	90	98	102	99	83	60
80	74	72	69	68	69	72	80	90	102	114	122	120	98	62
70	67	65	66	67	72	78	88	102	120	136	148	149	124	73
64	61	62	65	69	76	85	100	119	142	165	183	183	149	87

13.50 m

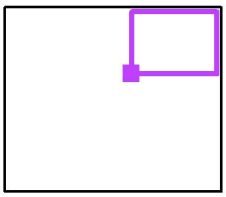
-13.50

-18.50

18.50 m

Values in Lux, Scale 1 : 265

Position of surface in external scene:
Marked point: (8.000 m, 26.500 m, 0.000 m)

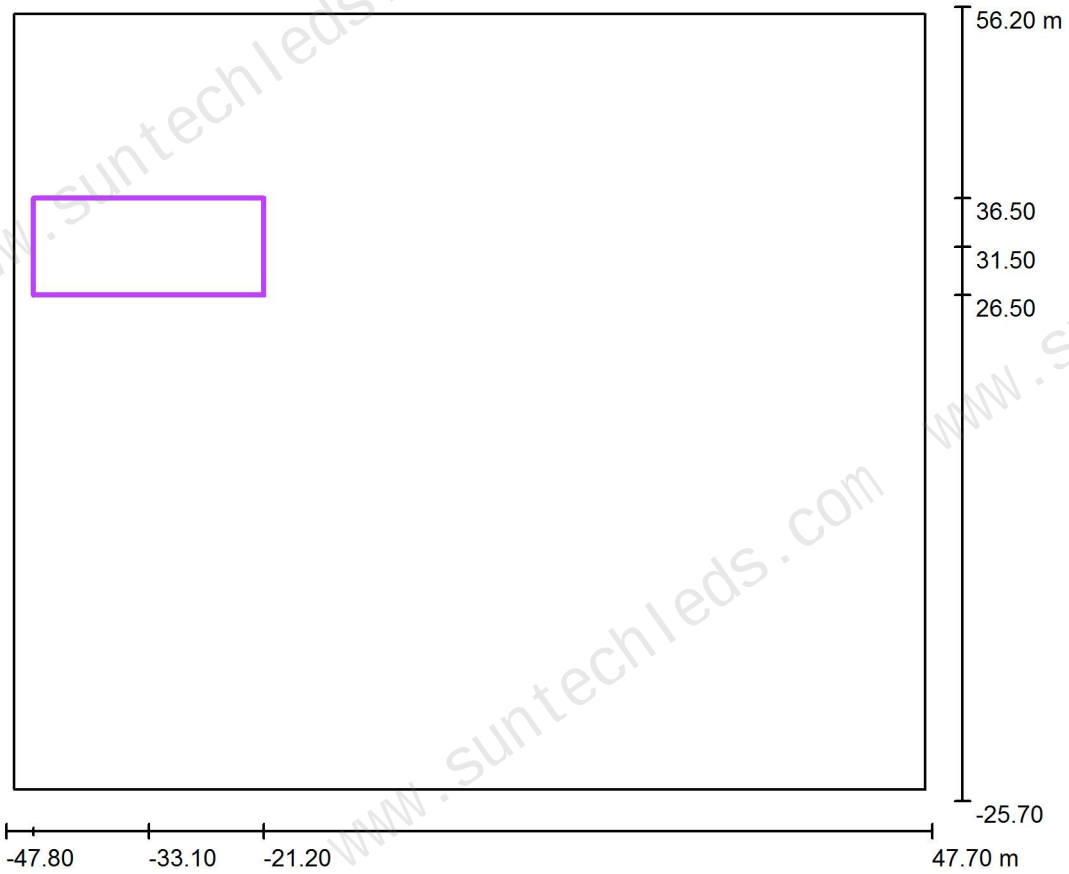


Grid: 15 x 11 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
100	60	207	0.60	0.29

Operator
Telephone
Fax
e-Mail

Exterior Scene 1 / Calculation Grid 2 / Summary



Scale 1 : 781

Position: (-33.100 m, 31.500 m, 0.000 m)
Size: (23.800 m, 10.000 m)
Rotation: (0.0°, 0.0°, 0.0°)
Type: Normal, Grid: 13 x 5 Points

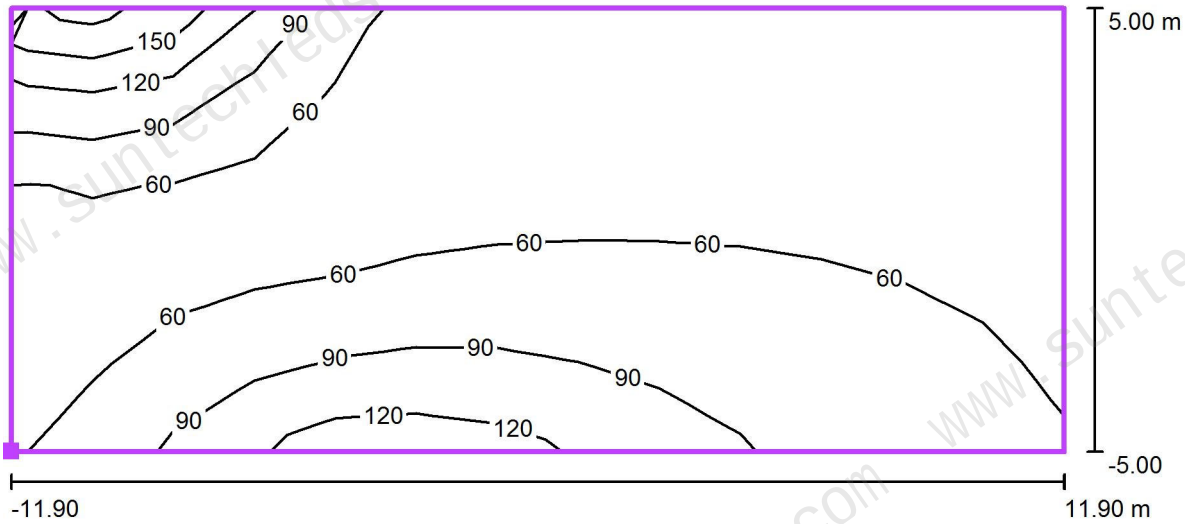
Results overview

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	66	41	160	0.61	0.25	/	0.000	/

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

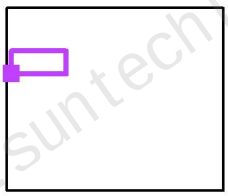
Operator
Telephone
Fax
e-Mail

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



Values in Lux, Scale 1 : 171

Position of surface in external scene:
Marked point: (-45.000 m, 26.500 m, 0.000 m)

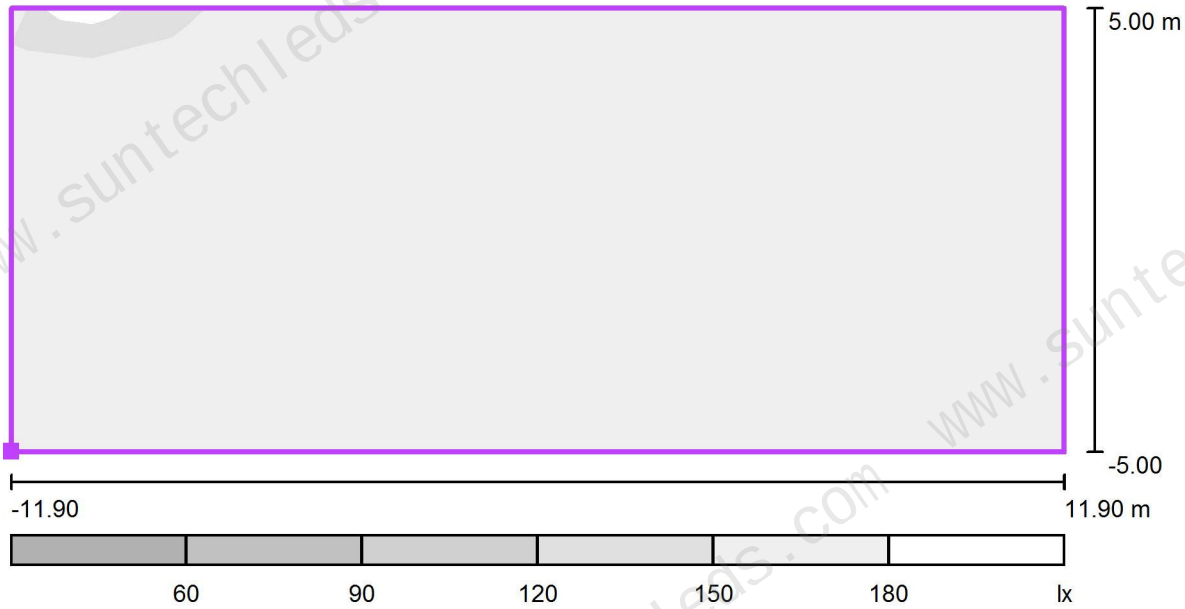


Grid: 13 x 5 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
66	41	160	0.61	0.25

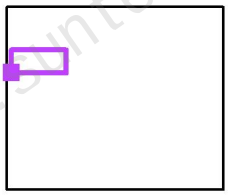
Operator
Telephone
Fax
e-Mail

Exterior Scene 1 / Calculation Grid 2 / Greyscale (E, Perpendicular)



Scale 1 : 171

Position of surface in external scene:
Marked point: (-45.000 m, 26.500 m, 0.000 m)

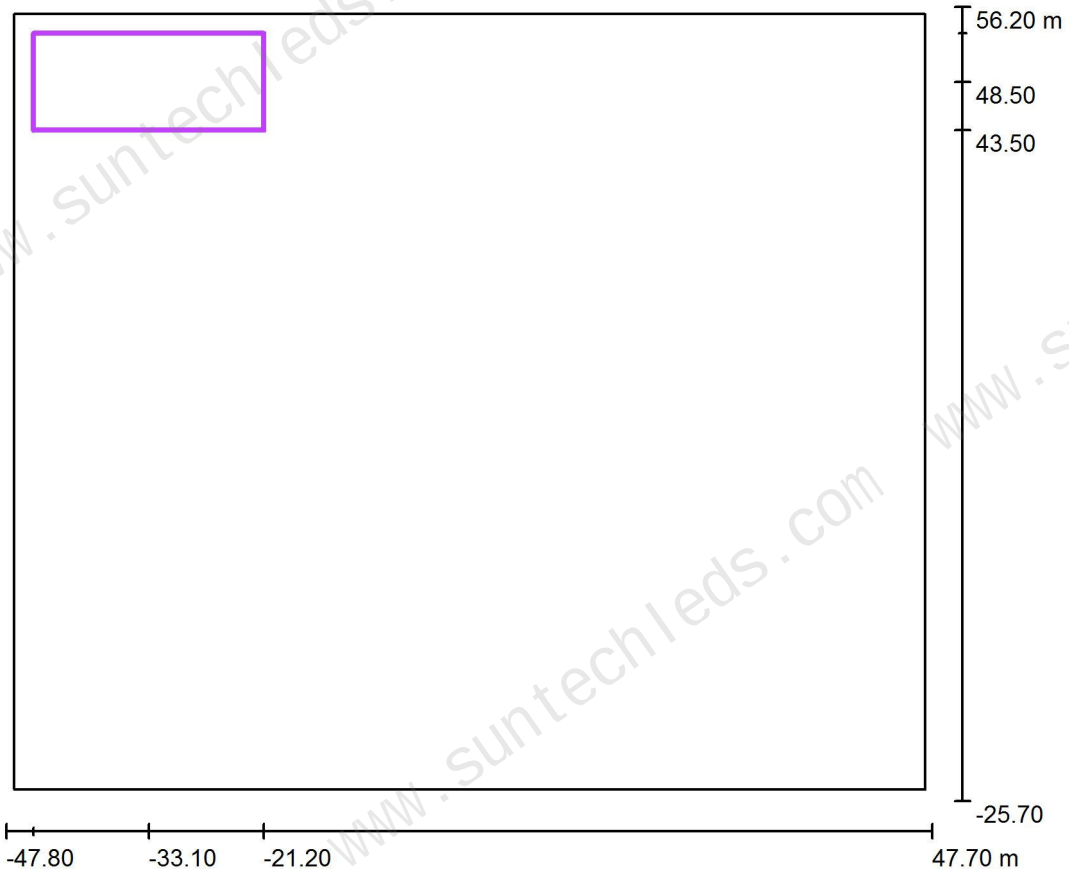


Grid: 13 x 5 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
66	41	160	0.61	0.25

Operator
Telephone
Fax
e-Mail

Exterior Scene 1 / Calculation Grid 3 / Summary



Scale 1 : 781

Position: (-33.100 m, 48.500 m, 0.000 m)
Size: (23.800 m, 10.000 m)
Rotation: (0.0°, 0.0°, 0.0°)
Type: Normal, Grid: 13 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	73	52	130	0.72	0.40	/	0.000	/

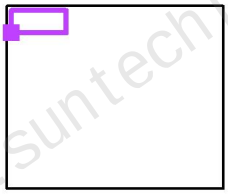
$E_{h\,m}/E_m$ = Relationship between middle horizontal and vertical illuminance, H = Measuring Height

Operator
Telephone
Fax
e-Mail

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

Values in Lux, Scale 1 : 171

Position of surface in external scene:
Marked point: (-45.000 m, 43.500 m, 0.000 m)

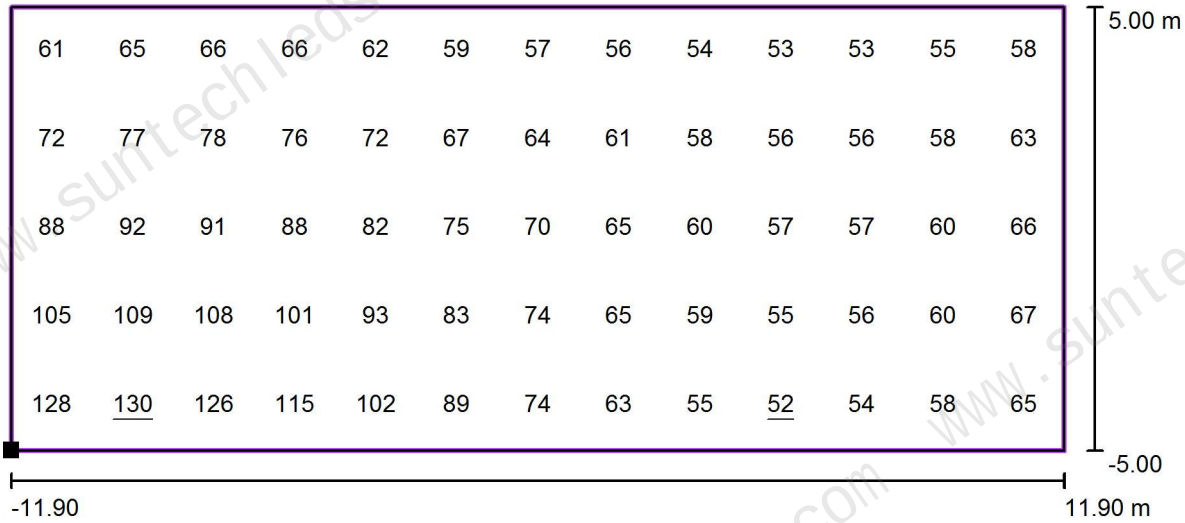


Grid: 13 x 5 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
73	52	130	0.72	0.40

Operator
Telephone
Fax
e-Mail

Exterior Scene 1 / Calculation Grid 3 / Value Chart (E, Perpendicular)



Values in Lux, Scale 1 : 171

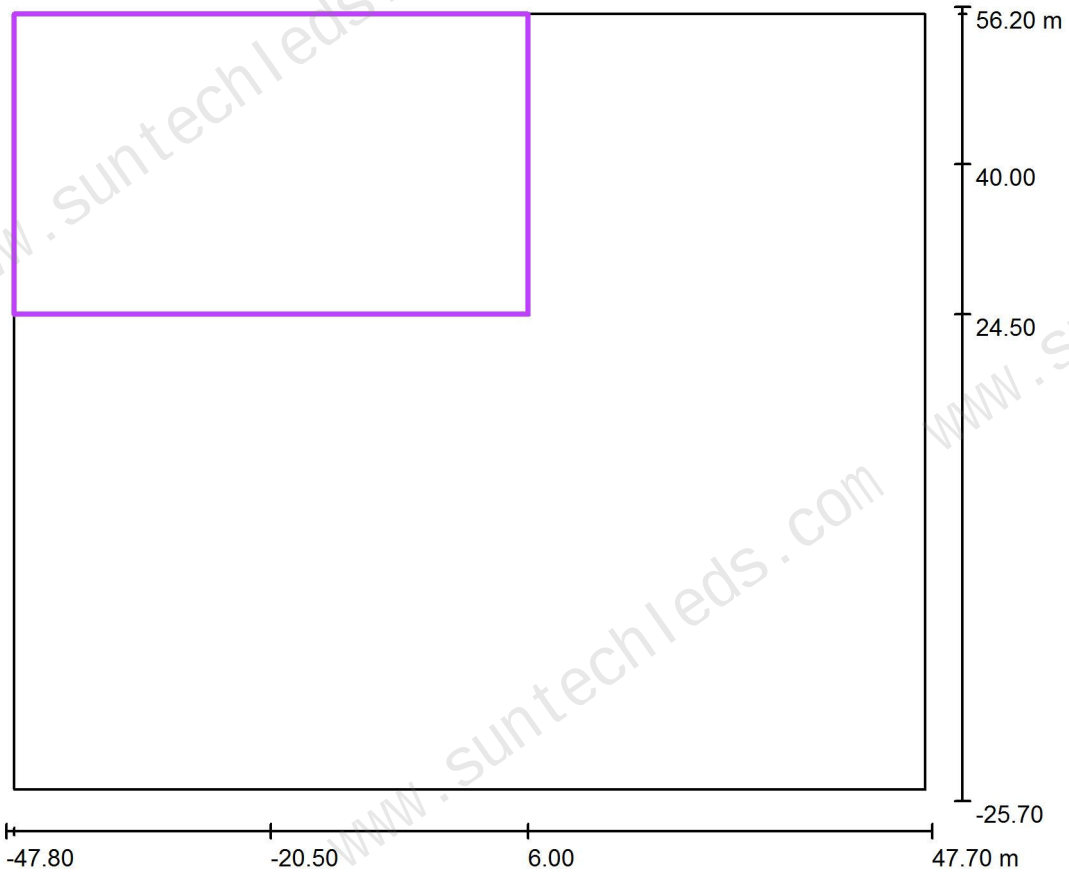
Position of surface in external scene:
Marked point: (-45.000 m, 43.500 m, 0.000 m)

Grid: 13 x 5 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
73	52	130	0.72	0.40

Operator
Telephone
Fax
e-Mail

Exterior Scene 1 / Calculation Grid 4 / Summary



Scale 1 : 781

Position: (-20.500 m, 40.000 m, 0.000 m)
Size: (53.000 m, 31.000 m)
Rotation: (0.0°, 0.0°, 0.0°)
Type: Normal, Grid: 17 x 9 Points

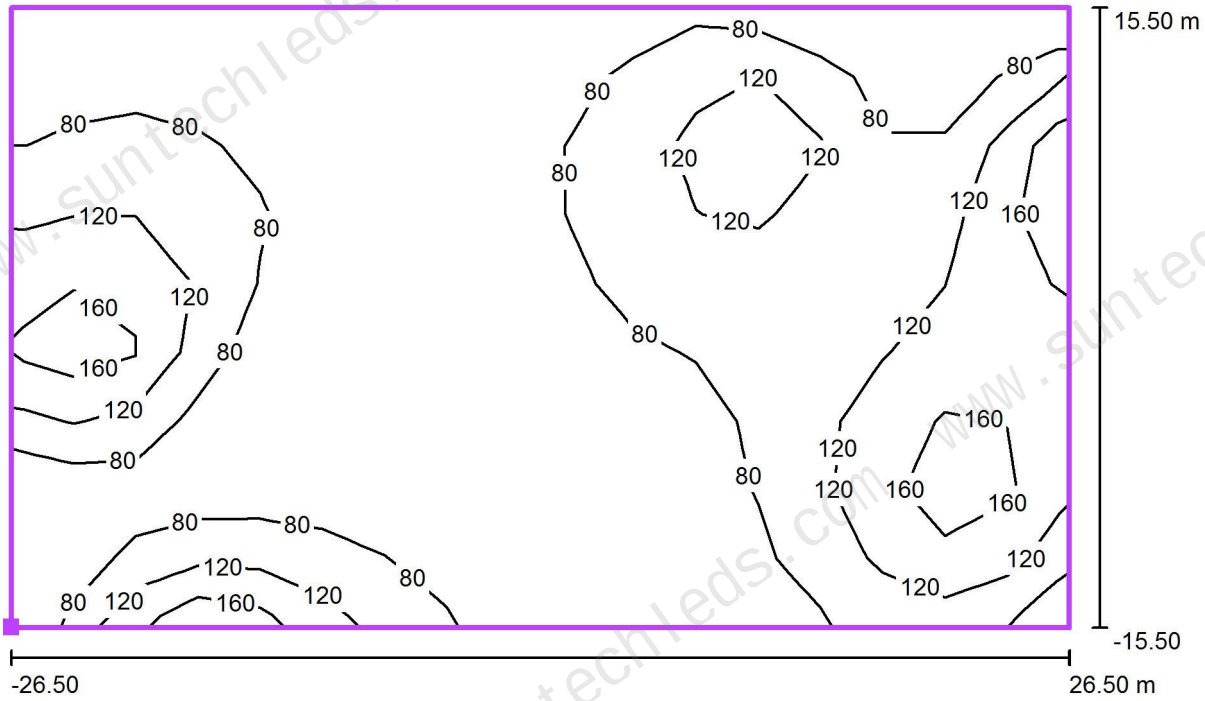
Results overview

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	89	41	192	0.46	0.21	/	0.000	/

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

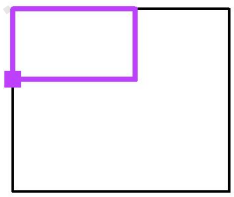
Operator
Telephone
Fax
e-Mail

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



Values in Lux, Scale 1 : 379

Position of surface in external scene:
Marked point: (-47.000 m, 24.500 m, 0.000 m)



Grid: 17 x 9 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
89	41	192	0.46	0.21

Operator
Telephone
Fax
e-Mail

Exterior Scene 1 / Calculation Grid 4 / Value Chart (E, Perpendicular)

52	58	60	57	53	51	50	51	57	66	82	98	82	53	42	47	60
69	78	78	71	64	59	55	59	70	90	114	146	152	106	56	84	147
95	105	100	87	73	60	55	61	74	93	117	141	139	95	78	122	183
134	142	129	100	71	53	51	59	71	87	104	115	106	84	97	129	165
169	186	150	88	54	44	47	54	64	76	86	88	84	94	116	135	145
176	192	121	52	41	43	47	52	59	67	73	78	91	117	144	154	144
53	69	51	44	46	49	52	54	56	57	61	72	97	134	171	185	155
41	51	61	72	74	70	65	60	56	54	56	68	90	126	169	188	137
55	97	153	158	131	105	85	69	60	55	55	61	74	96	121	126	86

15.50 m

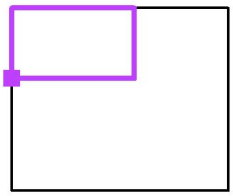
-15.50

-26.50

26.50 m

Values in Lux, Scale 1 : 379

Position of surface in external scene:
Marked point: (-47.000 m, 24.500 m, 0.000 m)

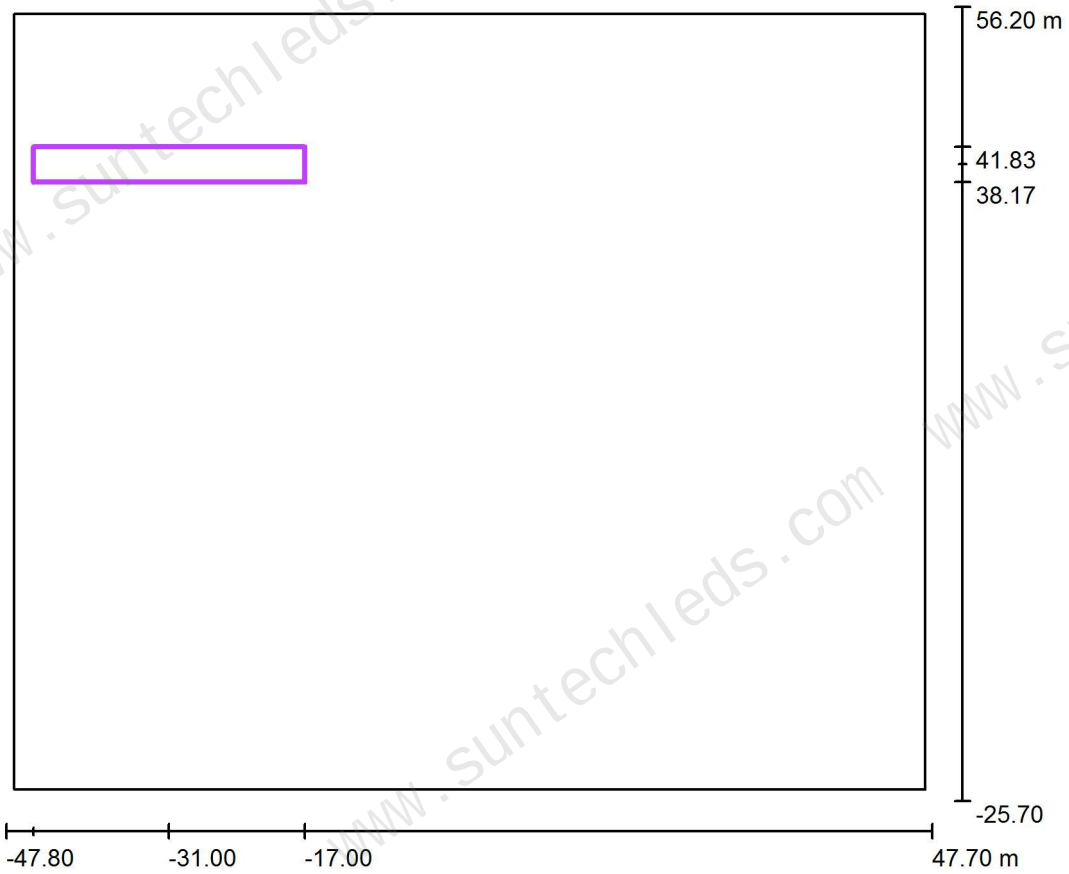


Grid: 17 x 9 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
89	41	192	0.46	0.21

Operator
Telephone
Fax
e-Mail

Exterior Scene 1 / Calculation Grid 2 / Summary



Scale 1 : 781

Position: (-31.000 m, 40.000 m, 0.000 m)
Size: (28.000 m, 3.660 m)
Rotation: (0.0°, 0.0°, 0.0°)
Type: Normal, Grid: 13 x 1 Points

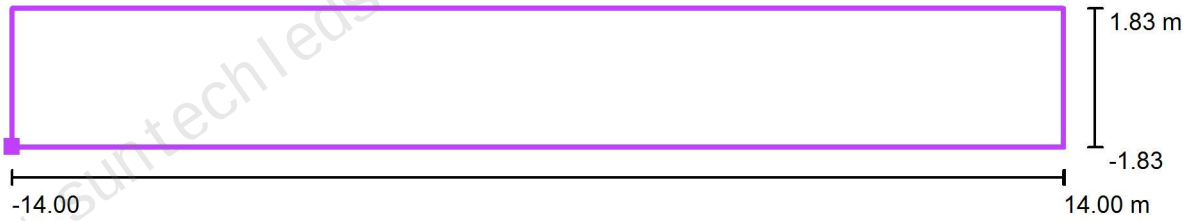
Results overview

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	89	45	189	0.50	0.24	/	0.000	/

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

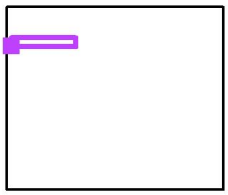
Operator
Telephone
Fax
e-Mail

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



Values in Lux, Scale 1 : 201

Position of surface in external scene:
Marked point: (-45.000 m, 38.170 m, 0.000 m)

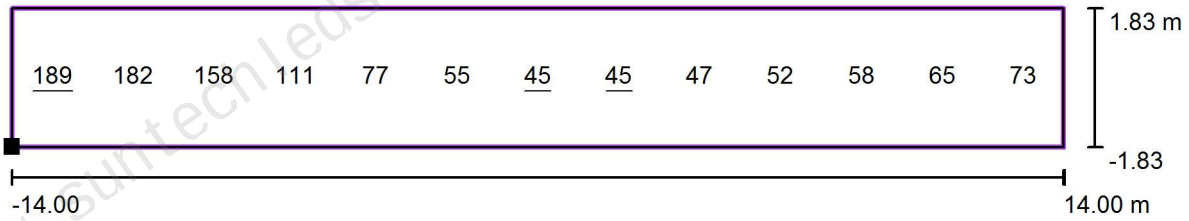


Grid: 13 x 1 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
89	45	189	0.50	0.24

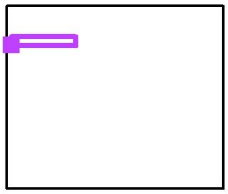
Operator
Telephone
Fax
e-Mail

Exterior Scene 1 / Calculation Grid 2 / Value Chart (E, Perpendicular)



Values in Lux, Scale 1 : 201

Position of surface in external scene:
Marked point: (-45.000 m, 38.170 m, 0.000 m)



Grid: 13 x 1 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
89	45	189	0.50	0.24