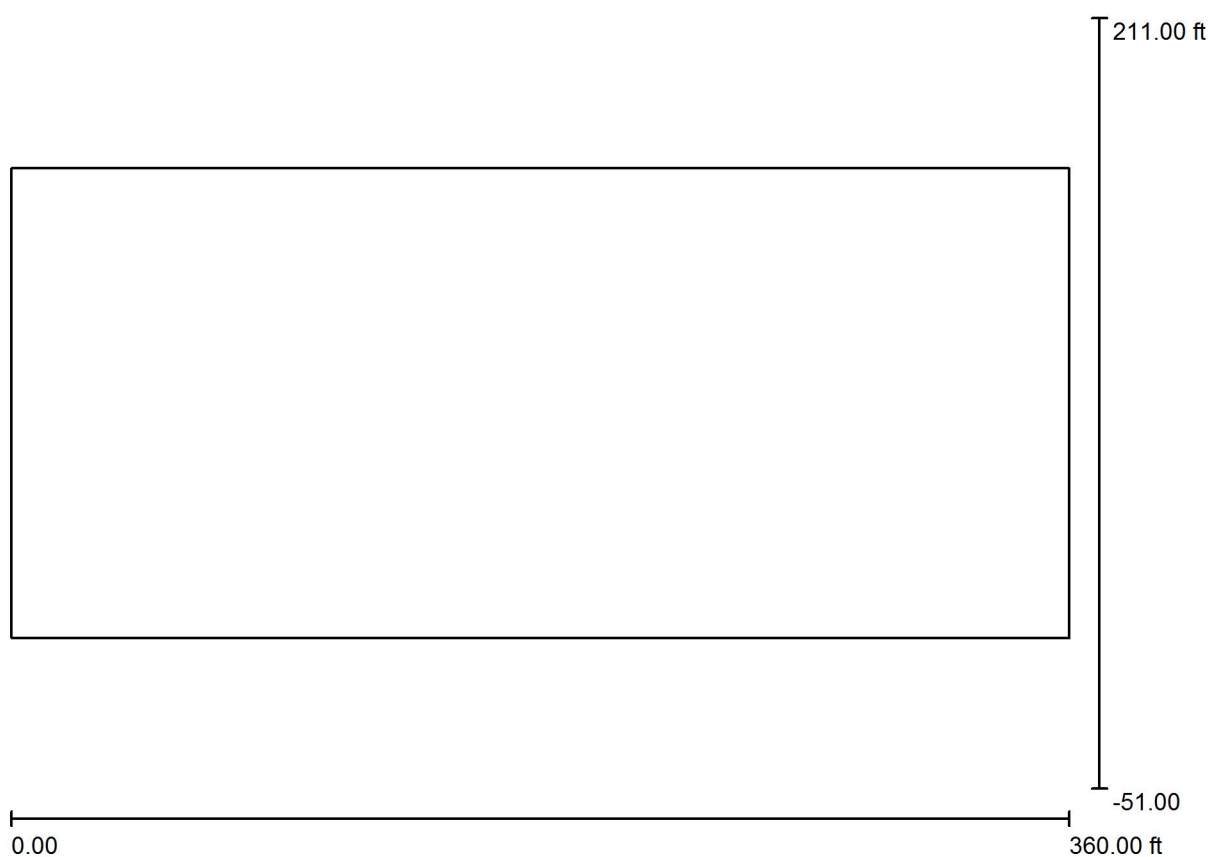


Operator
Telephone
Fax
e-Mail

Exterior Scene 1 / Planning data

Maintenance factor: 0.80, ULR (Upward Light Ratio): 5.0%

Scale 1:785

Luminaire Parts List

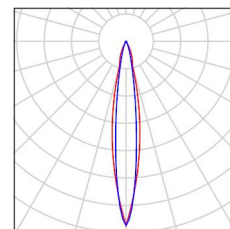
No.	Pieces	Designation (Correction Factor)	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
1	36	HD-SP-1250WD-Z-15D (1.000)	154733	154733	0.0
2	20	HD-SP-500WD-Z-45D (1.000)	64454	64475	495.3
Total:			6859486	Total: 6859906	9906.0

Operator
Telephone
Fax
e-Mail

Exterior Scene 1 / Luminaire parts list

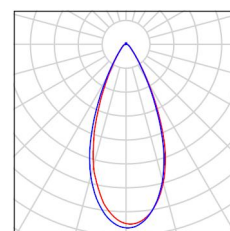
36 Pieces HD-SP-1250WD-Z-15D
Article No.:
Luminous flux (Luminaire): 154733 lm
Luminous flux (Lamps): 154733 lm
Luminaire Wattage: 0.0 W
Luminaire classification according to CIE: 100
CIE flux code: 94 98 100 100 100
Fitting: 1 x User defined (Correction Factor 1.000).

See our luminaire catalog for an image of the luminaire.

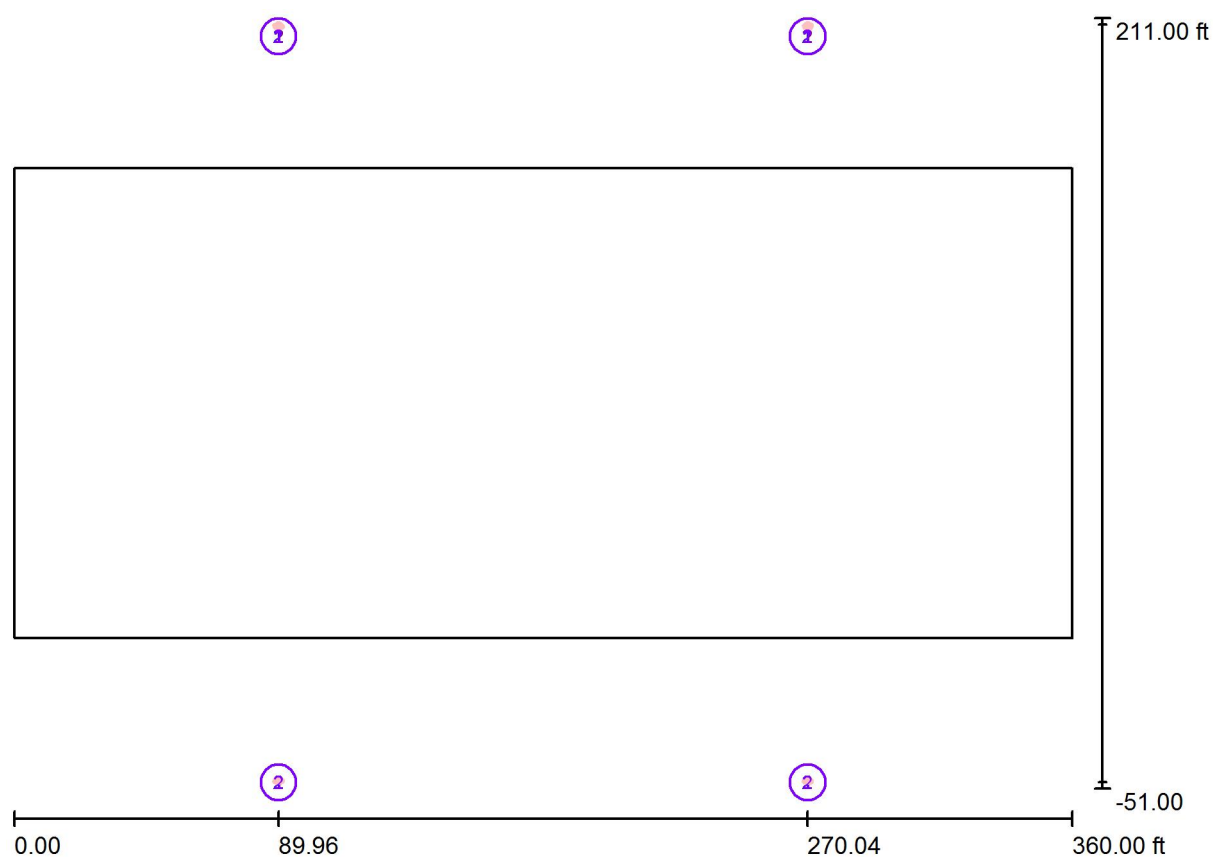


20 Pieces HD-SP-500WD-Z-45D
Article No.: HD-SP-500WD-Z-45D
Luminous flux (Luminaire): 64454 lm
Luminous flux (Lamps): 64475 lm
Luminaire Wattage: 495.3 W
Luminaire classification according to CIE: 97
CIE flux code: 87 95 99 97 100
Fitting: 1 x User defined (Correction Factor 1.000).

See our luminaire catalog for an image of the luminaire.



Operator
Telephone
Fax
e-Mail

Exterior Scene 1 / Luminaires (layout plan)

Scale 1 : 785

Luminaire Parts List

No.	Pieces	Designation
1	36	HD-SP-1250WD-Z-15D
2	20	HD-SP-500WD-Z-45D

Operator
Telephone
Fax
e-Mail

Exterior Scene 1 / Luminaires (coordinates list)

HD-SP-1250WD-Z-15D

154733 lm, 0.0 W, 1 x 1 x User defined (Correction Factor 1.000).



No.	Position [ft]			Rotation [°]		
	X	Y	Z	X	Y	Z
1	89.962	-49.000	60.000	64.5	0.0	45.6
2	89.962	-49.000	60.000	68.0	0.0	37.3
3	89.962	-49.000	60.000	67.7	0.0	29.9
4	89.962	-49.000	60.000	58.7	0.0	-54.1
5	89.962	-49.000	60.000	65.1	0.0	-2.6
6	89.962	-49.000	60.000	66.5	0.0	-20.1
7	89.962	-49.000	60.000	65.0	0.0	-34.3
8	89.962	-49.000	60.000	65.7	0.0	14.5
9	89.962	-49.000	60.000	60.7	0.0	57.2
10	270.038	-49.000	60.000	64.5	0.0	-45.6
11	270.038	-49.000	60.000	68.0	0.0	-37.3
12	270.038	-49.000	60.000	67.7	0.0	-29.9
13	270.038	-49.000	60.000	58.7	0.0	54.1
14	270.038	-49.000	60.000	65.1	0.0	2.6
15	270.038	-49.000	60.000	66.5	0.0	20.1
16	270.038	-49.000	60.000	65.0	0.0	34.3
17	270.038	-49.000	60.000	65.7	0.0	-14.5
18	270.038	-49.000	60.000	60.7	0.0	-57.2
19	89.962	209.000	60.000	64.5	0.0	134.4
20	89.962	209.000	60.000	68.0	0.0	142.7
21	89.962	209.000	60.000	67.7	0.0	150.1
22	89.962	209.000	60.000	58.7	0.0	-125.9
23	89.962	209.000	60.000	65.1	0.0	-177.4
24	89.962	209.000	60.000	66.5	0.0	-159.9
25	89.962	209.000	60.000	65.0	0.0	-145.7
26	89.962	209.000	60.000	65.7	0.0	165.5
27	89.962	209.000	60.000	60.7	0.0	122.8
28	270.038	209.000	60.000	64.5	0.0	-134.4

Operator
Telephone
Fax
e-Mail

Exterior Scene 1 / Luminaires (coordinates list)

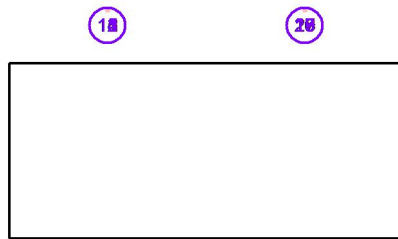
No.	Position [ft]			Rotation [°]		
	X	Y	Z	X	Y	Z
29	270.038	209.000	60.000	68.0	0.0	-142.7
30	270.038	209.000	60.000	67.7	0.0	-150.1
31	270.038	209.000	60.000	58.7	0.0	125.9
32	270.038	209.000	60.000	65.1	0.0	177.4
33	270.038	209.000	60.000	66.5	0.0	159.9
34	270.038	209.000	60.000	65.0	0.0	145.7
35	270.038	209.000	60.000	65.7	0.0	-165.5
36	270.038	209.000	60.000	60.7	0.0	-122.8

Operator
Telephone
Fax
e-Mail

Exterior Scene 1 / Luminaires (coordinates list)

HD-SP-500WD-Z-45D

64454 lm, 495.3 W, 1 x 1 x User defined (Correction Factor 1.000).

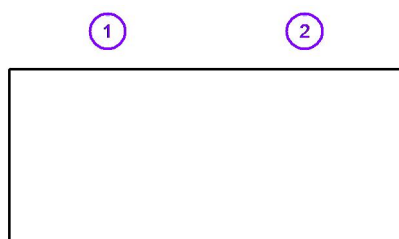


No.	Position [ft]			Rotation [°]		
	X	Y	Z	X	Y	Z
1	89.962	-49.000	60.000	48.0	0.0	-0.8
2	89.962	-49.000	60.000	49.8	0.0	-20.1
3	89.962	-49.000	60.000	54.6	0.0	-41.7
4	89.962	-49.000	60.000	55.3	0.0	43.5
5	89.962	-49.000	60.000	49.2	0.0	19.3
6	270.038	-49.000	60.000	48.0	0.0	0.8
7	270.038	-49.000	60.000	49.8	0.0	20.1
8	270.038	-49.000	60.000	54.6	0.0	41.7
9	270.038	-49.000	60.000	55.3	0.0	-43.5
10	270.038	-49.000	60.000	49.2	0.0	-19.3
11	89.962	209.000	60.000	48.0	0.0	-179.2
12	89.962	209.000	60.000	49.8	0.0	-159.9
13	89.962	209.000	60.000	54.6	0.0	-138.3
14	89.962	209.000	60.000	55.3	0.0	136.5
15	89.962	209.000	60.000	49.2	0.0	160.7
16	270.038	209.000	60.000	48.0	0.0	179.2
17	270.038	209.000	60.000	49.8	0.0	159.9
18	270.038	209.000	60.000	54.6	0.0	138.3
19	270.038	209.000	60.000	55.3	0.0	-136.5
20	270.038	209.000	60.000	49.2	0.0	-160.7

Operator
Telephone
Fax
e-Mail

Exterior Scene 1 / Objects (coordinates lists)

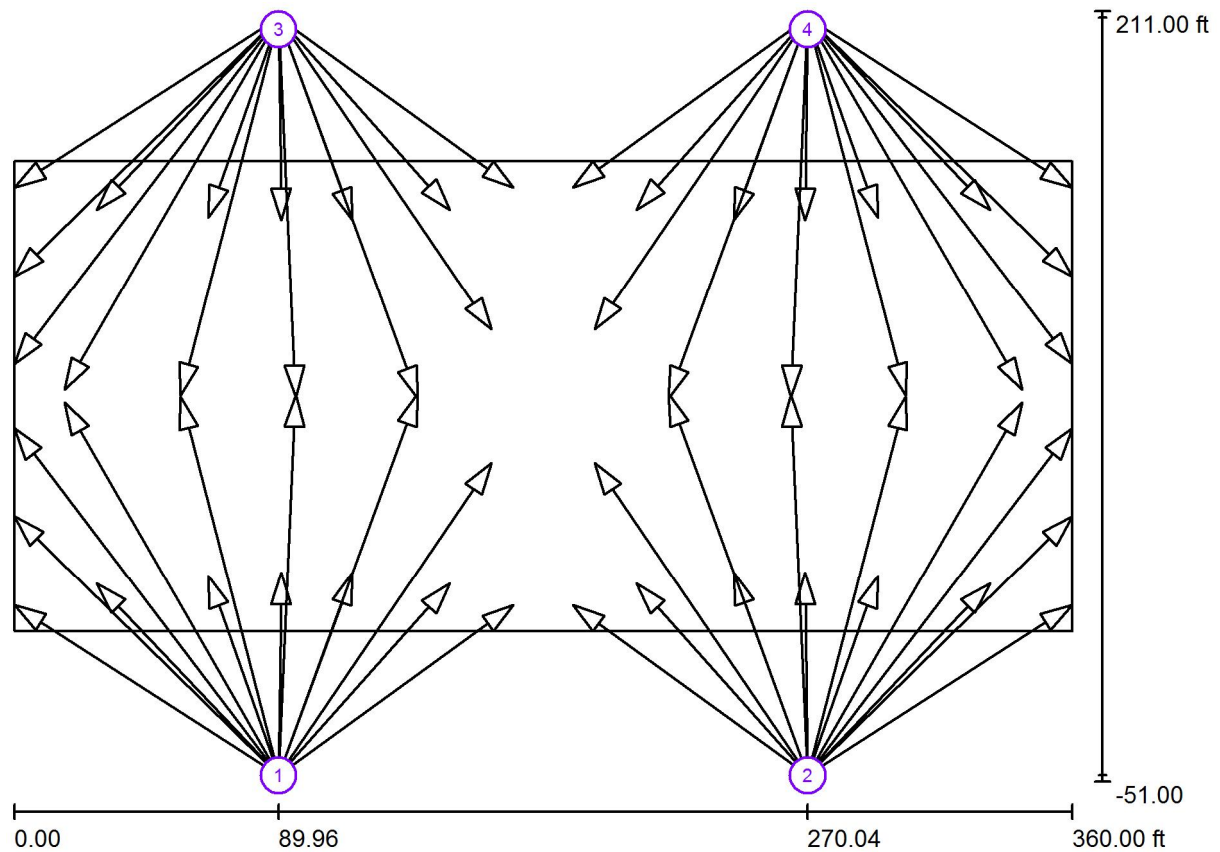
Vertical Cylinder



No.	Position [ft]			Size [ft]			Rotation [°]		
	X	Y	Z	L	W	H	X	Y	Z
1	90.000	210.000	30.000	2.000	2.000	60.000	0.0	0.0	0.0
2	270.000	210.000	30.000	2.000	2.000	60.000	0.0	0.0	0.0
3	90.000	-50.000	30.000	2.000	2.000	60.000	0.0	0.0	0.0
4	270.000	-50.000	30.000	2.000	2.000	60.000	0.0	0.0	0.0

Operator
Telephone
Fax
e-Mail

Exterior Scene 1 / Sport Luminaires (Coordinates List)



Scale 1 : 785

List of the Sport Luminaires

Luminaire	Index	Position [ft]			Aiming Point [ft]			Angle [°]	Alignment	Pole
		X	Y	Z	X	Y	Z			
HD-SP-1250WD-Z-15D	1	89.962	-49.000	60.000	0.000	39.217	0.000	25.5	(C 90, G IMax)	/
HD-SP-1250WD-Z-15D	1	89.962	-49.000	60.000	0.000	69.098	0.000	22.0	(C 90, G IMax)	/
HD-SP-1250WD-Z-15D	1	89.962	-49.000	60.000	17.070	77.791	0.000	22.3	(C 90, G IMax)	/
HD-SP-1250WD-Z-15D	1	89.962	-49.000	60.000	169.945	8.933	0.000	31.3	(C 90, G IMax)	/

Operator
Telephone
Fax
e-Mail

Exterior Scene 1 / Sport Luminaires (Coordinates List)

List of the Sport Luminaires

Luminaire	Index	Position [ft]			Aiming Point [ft]			Angle [°]	Alignment	Pole
		X	Y	Z	X	Y	Z			
HD-SP-1250WD-Z-15D	1	89.962	-49.000	60.000	95.810	80.380	0.000	24.9	(C 90, G IMax)	/
HD-SP-1250WD-Z-15D	1	89.962	-49.000	60.000	137.400	80.808	0.000	23.5	(C 90, G IMax)	/
HD-SP-1250WD-Z-15D	1	89.962	-49.000	60.000	162.400	57.388	0.000	25.0	(C 90, G IMax)	/
HD-SP-1250WD-Z-15D	1	89.962	-49.000	60.000	56.642	79.723	0.000	24.3	(C 90, G IMax)	/
HD-SP-1250WD-Z-15D	1	89.962	-49.000	60.000	0.000	8.933	0.000	29.3	(C 90, G IMax)	/
HD-SP-1250WD-Z-15D	2	270.038	-49.000	60.000	360.000	39.217	0.000	25.5	(C 90, G IMax)	/
HD-SP-1250WD-Z-15D	2	270.038	-49.000	60.000	360.000	69.098	0.000	22.0	(C 90, G IMax)	/
HD-SP-1250WD-Z-15D	2	270.038	-49.000	60.000	342.930	77.791	0.000	22.3	(C 90, G IMax)	/
HD-SP-1250WD-Z-15D	2	270.038	-49.000	60.000	190.055	8.933	0.000	31.3	(C 90, G IMax)	/
HD-SP-1250WD-Z-15D	2	270.038	-49.000	60.000	264.190	80.380	0.000	24.9	(C 90, G IMax)	/
HD-SP-1250WD-Z-15D	2	270.038	-49.000	60.000	222.600	80.808	0.000	23.5	(C 90, G IMax)	/
HD-SP-1250WD-Z-15D	2	270.038	-49.000	60.000	197.600	57.388	0.000	25.0	(C 90, G IMax)	/
HD-SP-1250WD-Z-15D	2	270.038	-49.000	60.000	303.358	79.723	0.000	24.3	(C 90, G IMax)	/
HD-SP-1250WD-Z-15D	2	270.038	-49.000	60.000	360.000	8.933	0.000	29.3	(C 90, G IMax)	/
HD-SP-1250WD-Z-15D	3	89.962	209.000	60.000	0.000	120.783	0.000	25.5	(C 90, G IMax)	/
HD-SP-1250WD-Z-15D	3	89.962	209.000	60.000	0.000	90.902	0.000	22.0	(C 90, G IMax)	/
HD-SP-1250WD-Z-15D	3	89.962	209.000	60.000	17.070	82.209	0.000	22.3	(C 90, G IMax)	/
HD-SP-1250WD-Z-15D	3	89.962	209.000	60.000	169.945	151.067	0.000	31.3	(C 90, G IMax)	/
HD-SP-1250WD-Z-15D	3	89.962	209.000	60.000	95.810	79.620	0.000	24.9	(C 90, G IMax)	/
HD-SP-1250WD-Z-15D	3	89.962	209.000	60.000	137.400	79.192	0.000	23.5	(C 90, G IMax)	/
HD-SP-1250WD-Z-15D	3	89.962	209.000	60.000	162.400	102.612	0.000	25.0	(C 90, G IMax)	/
HD-SP-1250WD-Z-15D	3	89.962	209.000	60.000	56.642	80.277	0.000	24.3	(C 90, G IMax)	/
HD-SP-1250WD-Z-15D	3	89.962	209.000	60.000	0.000	151.067	0.000	29.3	(C 90, G IMax)	/
HD-SP-1250WD-Z-15D	4	270.038	209.000	60.000	360.000	120.783	0.000	25.5	(C 90, G IMax)	/
HD-SP-1250WD-Z-15D	4	270.038	209.000	60.000	360.000	90.902	0.000	22.0	(C 90, G IMax)	/
HD-SP-1250WD-Z-15D	4	270.038	209.000	60.000	342.930	82.209	0.000	22.3	(C 90, G IMax)	/
HD-SP-1250WD-Z-15D	4	270.038	209.000	60.000	190.055	151.067	0.000	31.3	(C 90, G IMax)	/
HD-SP-1250WD-Z-15D	4	270.038	209.000	60.000	264.190	79.620	0.000	24.9	(C 90, G IMax)	/
HD-SP-1250WD-Z-15D	4	270.038	209.000	60.000	222.600	79.192	0.000	23.5	(C 90, G IMax)	/
HD-SP-1250WD-Z-15D	4	270.038	209.000	60.000	197.600	102.612	0.000	25.0	(C 90, G IMax)	/
HD-SP-1250WD-Z-15D	4	270.038	209.000	60.000	303.358	80.277	0.000	24.3	(C 90, G IMax)	/
HD-SP-1250WD-Z-15D	4	270.038	209.000	60.000	360.000	151.067	0.000	29.3	(C 90, G IMax)	/
HD-SP-500WD-Z-45D	1	89.962	-49.000	60.000	90.955	19.975	0.000	41.0	(C 90, G IMax)	/
HD-SP-500WD-Z-45D	1	89.962	-49.000	60.000	115.202	19.975	0.000	39.2	(C 90, G IMax)	/
HD-SP-500WD-Z-45D	1	89.962	-49.000	60.000	148.302	16.404	0.000	34.4	(C 90, G IMax)	/
HD-SP-500WD-Z-45D	1	89.962	-49.000	60.000	27.973	16.404	0.000	33.7	(C 90, G IMax)	/

Operator
Telephone
Fax
e-Mail

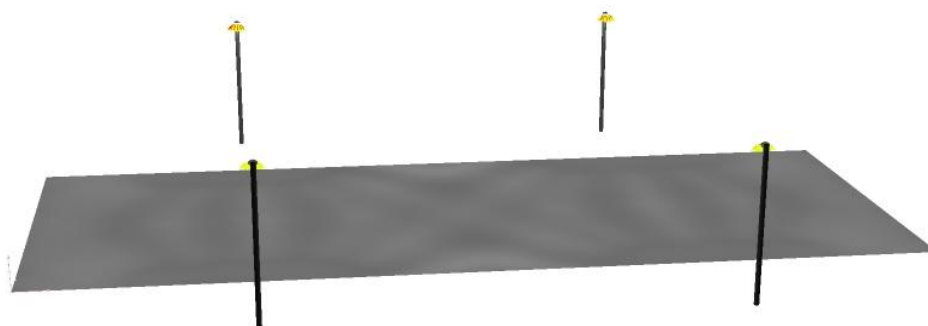
Exterior Scene 1 / Sport Luminaires (Coordinates List)

List of the Sport Luminaires

Luminaire	Index	Position [ft]			Aiming Point [ft]			Angle [°]	Alignment	Pole
		X	Y	Z	X	Y	Z			
HD-SP-500WD-Z-45D	1	89.962	-49.000	60.000	66.102	19.029	0.000	39.8	(C 90, G IMax)	/
HD-SP-500WD-Z-45D	2	270.038	-49.000	60.000	269.045	19.975	0.000	41.0	(C 90, G IMax)	/
HD-SP-500WD-Z-45D	2	270.038	-49.000	60.000	244.798	19.975	0.000	39.2	(C 90, G IMax)	/
HD-SP-500WD-Z-45D	2	270.038	-49.000	60.000	211.698	16.404	0.000	34.4	(C 90, G IMax)	/
HD-SP-500WD-Z-45D	2	270.038	-49.000	60.000	332.027	16.404	0.000	33.7	(C 90, G IMax)	/
HD-SP-500WD-Z-45D	2	270.038	-49.000	60.000	293.898	19.029	0.000	39.8	(C 90, G IMax)	/
HD-SP-500WD-Z-45D	3	89.962	209.000	60.000	90.955	140.025	0.000	41.0	(C 90, G IMax)	/
HD-SP-500WD-Z-45D	3	89.962	209.000	60.000	115.202	140.025	0.000	39.2	(C 90, G IMax)	/
HD-SP-500WD-Z-45D	3	89.962	209.000	60.000	148.302	143.596	0.000	34.4	(C 90, G IMax)	/
HD-SP-500WD-Z-45D	3	89.962	209.000	60.000	27.973	143.596	0.000	33.7	(C 90, G IMax)	/
HD-SP-500WD-Z-45D	3	89.962	209.000	60.000	66.102	140.971	0.000	39.8	(C 90, G IMax)	/
HD-SP-500WD-Z-45D	4	270.038	209.000	60.000	269.045	140.025	0.000	41.0	(C 90, G IMax)	/
HD-SP-500WD-Z-45D	4	270.038	209.000	60.000	244.798	140.025	0.000	39.2	(C 90, G IMax)	/
HD-SP-500WD-Z-45D	4	270.038	209.000	60.000	211.698	143.596	0.000	34.4	(C 90, G IMax)	/
HD-SP-500WD-Z-45D	4	270.038	209.000	60.000	332.027	143.596	0.000	33.7	(C 90, G IMax)	/
HD-SP-500WD-Z-45D	4	270.038	209.000	60.000	293.898	140.971	0.000	39.8	(C 90, G IMax)	/

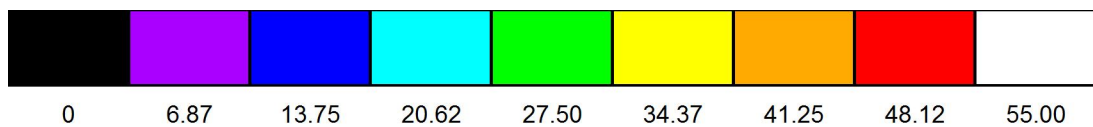
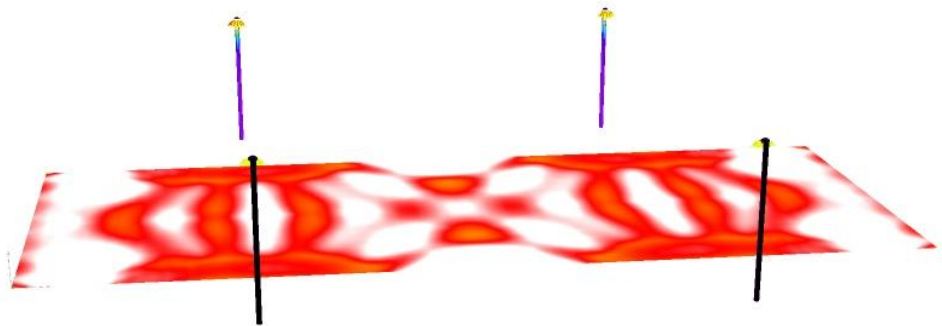
Operator
Telephone
Fax
e-Mail

Exterior Scene 1 / 3D Rendering



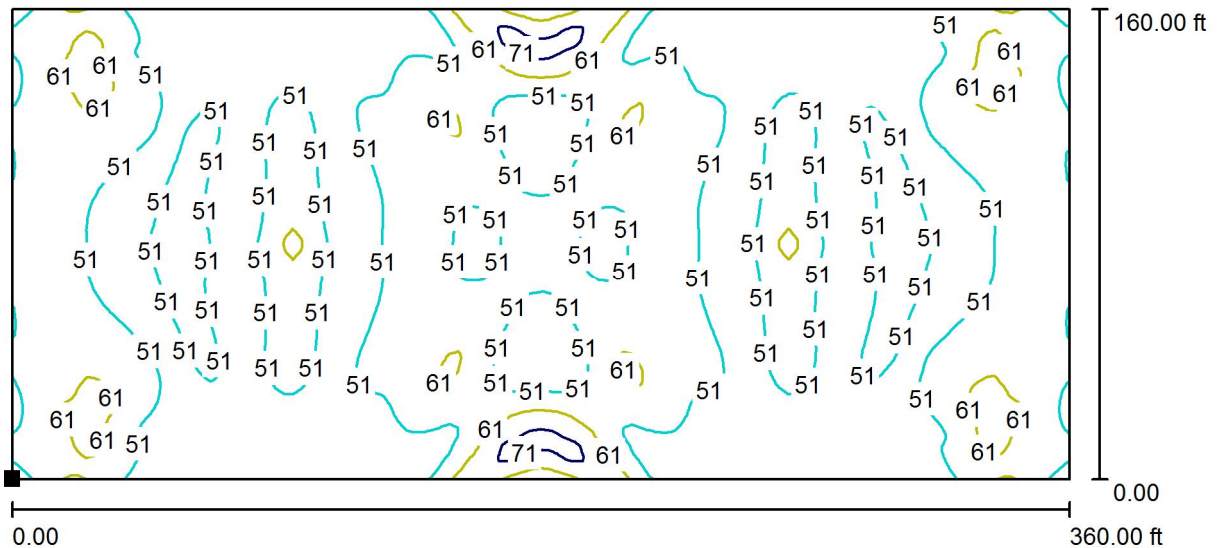
Operator
Telephone
Fax
e-Mail

Exterior Scene 1 / False Colour Rendering



fc

Operator
Telephone
Fax
e-Mail

Exterior Scene 1 / Ground Element 1 / Surface 1 / Isolines (E)

Values in Footcandles, Scale 1 : 785

Position of surface in external scene:

Marked point:

(0.000 ft, 0.000 ft, 0.000 ft)

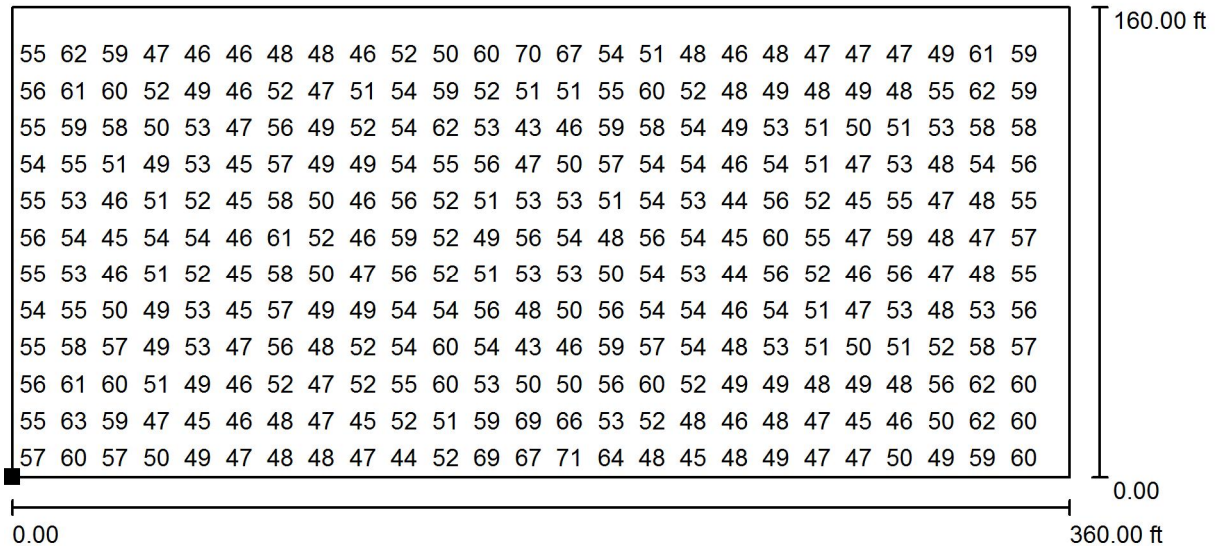


Grid: 128 x 128 Points

 E_{av} [fc]
52 E_{min} [fc]
42 E_{max} [fc]
74 u_0
0.810 E_{min} / E_{max}
0.573

Operator
Telephone
Fax
e-Mail

Exterior Scene 1 / Ground Element 1 / Surface 1 / Value Chart (E)



Values in Footcandles, Scale 1 : 785

Not all calculated values could be displayed.

Position of surface in external scene:

Marked point:

(0.000 ft, 0.000 ft, 0.000 ft)



Grid: 128 x 128 Points

E_{av} [fc]
52

E_{min} [fc]
42

E_{max} [fc]
74

u_0
0.810

E_{min} / E_{max}
0.573