

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00625_8 ~ SGE6BX60L-35KMD-DO101-AR6BXMWWF.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00625_8_M-60L

[TESTLAB] Spectrum Lighting Photometric Lab, VLS-245-981

[MANUFAC] Spectrum Lighting

[ISSUEDATE] 6/7/2018

[UPDATE] 7/20/2018

[LUMCAT] SGE6BX-60L-35K-MD-DO101-AR6BX-MWWF

[LUMINAIRE] Nom. 6" Diam x 9" H, Open aperture

[OTHER] Matte White reflector trim

[OTHER] Deep regressed retrofit high output LED downlight

[OTHER] BX Series, Medium Beam

[OTHER] 36.4 Deg Beam Angle

[LAMPCAT] N/A

[LAMP] N/A, Bridgelux Vero 29

[OTHER] Dimmable driver tested at 100% output

[OTHER] Tested CCT: 3500K

[OTHER] CCT Output: 27K x 0.932, 30K x 1.00, 40K x 1.01

[OTHER] This report prepared by Spectrum Lighting, scaled from 80L

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4737
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	108
Total Luminaire Watts	44
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.60
Spacing Criterion (90-270)	0.60
Spacing Criterion (Diagonal)	0.62
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.48 ft (Diameter)
Luminous Width (90-270)	0.48 ft (Diameter)
Luminous Height	0.00 ft

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00625_8 ~ SGE6BX60L-35KMD-DO101-AR6BXMWWF.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	9386	9457	9517
55	10706	10288	10570
65	10667	10404	10736
75	7844	6644	7874
85	2346	1752	1823

IES INDOOR REPORT

PHOTOMETRIC FILENAME : SP-00625_8 ~ SGE6BX60L-35KMD-DO101-AR6BXMWWF.IES

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
0.0	11544.476	11544.476	11544.476	11544.476	11544.476	11544.476	11544.476	11544.476	11544.476	11544.476
2.5	11478.447	11362.152	11522.922	11342.688	11406.483	11311.680	11388.585	11266.354	11378.857	11308.222
5.0	10882.166	10903.613	10832.120	10867.240	10766.517	10735.205	10683.593	10793.360	10749.744	10853.438
7.5	10124.917	10089.235	10117.743	10044.547	10025.152	9941.849	9963.045	9984.599	10041.013	10062.195
10.0	9175.974	9148.766	9123.883	9113.836	9080.343	9036.012	9037.221	9120.889	9132.266	9198.044
12.5	8182.198	8137.115	8128.321	8100.870	8100.414	8074.399	8107.140	8146.675	8185.185	8202.437
15.0	7136.004	7104.348	7083.438	7066.321	7058.582	7054.996	7078.827	7137.088	7154.371	7167.687
17.5	6080.073	6060.324	6039.354	6012.626	6008.575	6010.578	6047.019	6065.017	6099.026	6070.717
20.0	5050.818	5013.558	5007.171	4954.869	4946.044	4961.925	4971.757	5003.021	4997.503	4993.762
22.5	4025.453	4014.024	3980.347	3979.281	3914.790	3911.712	3899.300	3956.497	3920.530	3944.557
25.0	3010.317	3023.924	3004.203	3017.702	2925.368	2881.210	2850.176	2910.415	2883.632	2894.969
27.5	1996.246	2044.708	2044.499	2035.527	1975.949	1856.807	1835.498	1864.929	1905.844	1844.920
30.0	1194.085	1067.168	1196.245	1050.733	1074.030	1093.985	1038.396	1040.657	1013.391	1030.555
32.5	405.804	595.280	453.709	591.604	494.967	399.412	354.469	479.644	428.044	470.173
35.0	255.034	179.982	275.008	178.092	251.853	211.420	224.708	173.074	230.195	175.606
37.5	125.516	136.701	129.227	139.740	131.345	130.152	120.230	131.846	122.123	132.147
40.0	119.882	121.982	123.065	121.343	122.675	117.047	115.327	110.590	113.263	111.963
42.5	114.348	118.195	117.225	117.013	116.818	115.141	111.023	107.589	108.682	111.323
45.0	111.675	114.844	112.529	112.957	113.239	112.640	108.707	105.269	108.307	108.922
47.5	109.120	113.623	108.403	110.439	110.807	110.064	106.316	103.504	105.953	105.225
50.0	108.300	112.297	105.965	107.871	109.188	105.667	103.713	102.020	101.895	100.900
52.5	107.189	106.192	103.130	104.208	106.065	101.113	100.540	100.737	97.630	96.173
55.0	103.332	100.182	99.299	100.432	102.013	96.436	95.999	96.800	93.207	92.406
57.5	99.015	95.769	95.245	95.312	96.461	91.753	91.716	91.195	88.790	89.184
60.0	91.589	91.224	90.708	90.289	90.095	88.192	87.965	85.037	84.377	85.086
62.5	84.043	85.268	84.195	86.049	83.318	84.561	82.910	78.576	78.610	80.559
65.0	75.861	78.429	73.990	80.505	76.350	75.594	75.536	71.123	72.054	73.312
67.5	66.736	66.387	64.117	68.592	65.108	66.388	66.580	63.205	63.648	64.926
70.0	54.825	54.682	54.674	56.051	52.544	54.891	55.497	53.505	54.398	54.524
72.5	43.971	43.667	42.259	42.400	44.260	43.395	43.290	43.231	43.010	43.588
75.0	34.160	32.925	28.935	30.653	34.292	31.903	30.615	31.285	31.545	32.552
77.5	20.955	22.825	19.929	21.605	22.016	22.715	23.726	21.489	20.929	23.716
80.0	13.252	14.279	12.555	16.921	13.351	14.833	14.890	14.049	14.427	16.977
82.5	8.651	5.908	6.782	8.039	9.567	8.080	6.570	6.229	8.938	7.039
85.0	3.441	2.443	2.570	4.107	2.674	3.036	2.339	2.679	3.977	4.151
87.5	1.733	1.299	1.387	0.782	1.321	1.217	1.129	1.382	1.374	1.518
90.0	0.000	0.000	0.000	0.000	0.000	0.714	1.296	0.898	0.490	0.876
92.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT

PHOTOMETRIC FILENAME : SP-00625_8 ~ SGE6BX60L-35KMD-DO101-AR6BXMWWF.IES

CANDELA TABULATION - (Cont.)

127.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert.
Angles

Horizontal Angles

	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0.0	11544.476	11544.476	11544.476	11544.476	11544.476	11544.476	11544.476
2.5	11465.193	11329.282	11433.014	11406.369	11527.505	11364.667	11478.447
5.0	10792.106	10886.202	10858.933	10838.535	10863.767	10929.735	10882.166
7.5	10095.072	10076.764	10108.144	10113.571	10173.785	10124.568	10124.917
10.0	9169.103	9198.067	9171.459	9177.410	9193.917	9204.443	9175.974
12.5	8223.382	8180.283	8176.878	8177.965	8202.368	8176.125	8182.198
15.0	7142.643	7129.312	7105.245	7104.081	7121.704	7120.077	7136.004
17.5	6058.411	6020.693	6013.797	6020.004	6043.789	6062.154	6080.073
20.0	4955.408	4930.428	4940.332	4925.266	4981.613	5003.841	5050.818
22.5	3861.429	3867.892	3870.686	3886.819	3933.973	3997.962	4025.453
25.0	2805.946	2819.002	2830.128	2899.965	2953.384	3000.744	3010.317
27.5	1805.073	1788.380	1794.396	1945.886	1998.715	2021.242	1996.246
30.0	998.705	986.616	1051.082	1018.123	1140.926	1043.904	1194.085
32.5	360.254	452.954	343.686	482.944	444.642	582.956	405.804
35.0	219.895	165.626	207.529	227.381	258.605	166.607	255.034
37.5	118.257	131.199	121.078	124.172	122.458	133.338	125.516
40.0	113.742	113.845	113.631	115.560	118.945	118.790	119.882
42.5	110.221	112.077	110.094	111.465	115.868	116.522	114.348
45.0	108.863	109.757	109.119	109.804	113.777	114.404	111.675
47.5	106.075	106.994	108.126	107.635	110.886	111.027	109.120
50.0	100.603	102.813	103.488	105.226	106.414	107.673	108.300
52.5	96.129	97.638	98.858	102.094	102.630	104.749	107.189
55.0	93.288	93.565	94.353	98.669	100.026	101.568	103.332
57.5	89.738	90.172	89.934	93.982	95.882	95.474	99.015
60.0	85.165	86.547	86.482	88.863	89.444	89.701	91.589
62.5	79.676	82.798	82.578	82.211	82.762	86.495	84.043
65.0	73.032	75.545	75.029	75.113	75.755	81.887	75.861

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00625_8 ~ SGE6BX60L-35KMD-DO101-AR6BXMWWF.IES****CANDELA TABULATION - (Cont.)**

67.5	65.930	66.644	66.837	66.831	67.030	70.287	66.736
70.0	58.374	56.866	55.605	58.049	56.631	57.929	54.825
72.5	46.039	46.810	44.824	42.989	45.082	44.117	43.971
75.0	31.928	34.480	34.816	30.693	33.746	33.224	34.160
77.5	23.616	23.325	25.284	22.019	26.502	23.742	20.955
80.0	15.162	13.951	16.127	13.911	17.911	14.755	13.252
82.5	8.627	9.589	7.763	7.133	9.088	9.195	8.651
85.0	5.404	4.772	3.634	3.143	3.758	3.497	3.441
87.5	1.732	2.299	1.509	1.303	1.609	1.178	1.733
90.0	0.984	0.850	0.715	0.000	0.000	0.000	0.000
92.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00625_8 ~ SGE6BX60L-35KMD-DO101-AR6BXMWWF.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	2930.26	N.A.	61.90
0-30	4241.91	N.A.	89.50
0-40	4450.01	N.A.	93.90
0-60	4622.91	N.A.	97.60
0-80	4731.61	N.A.	99.90
0-90	4737.18	N.A.	100.00
10-90	3757.04	N.A.	79.30
20-40	1519.75	N.A.	32.10
20-50	1605.55	N.A.	33.90
40-70	246.26	N.A.	5.20
60-80	108.70	N.A.	2.30
70-80	35.35	N.A.	0.70
80-90	5.57	N.A.	0.10
90-110	0.06	N.A.	0.00
90-120	0.06	N.A.	0.00
90-130	0.06	N.A.	0.00
90-150	0.06	N.A.	0.00
90-180	0.06	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	4737.24	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	980.14
10-20	1950.12
20-30	1311.65
30-40	208.10
40-50	85.80
50-60	87.10
60-70	73.35
70-80	35.35
80-90	5.57
90-100	0.06
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

IES INDOOR REPORT

PHOTOMETRIC FILENAME : SP-00625_8 ~ SGE6BX60L-35KMD-DO101-AR6BXMWWF.IES

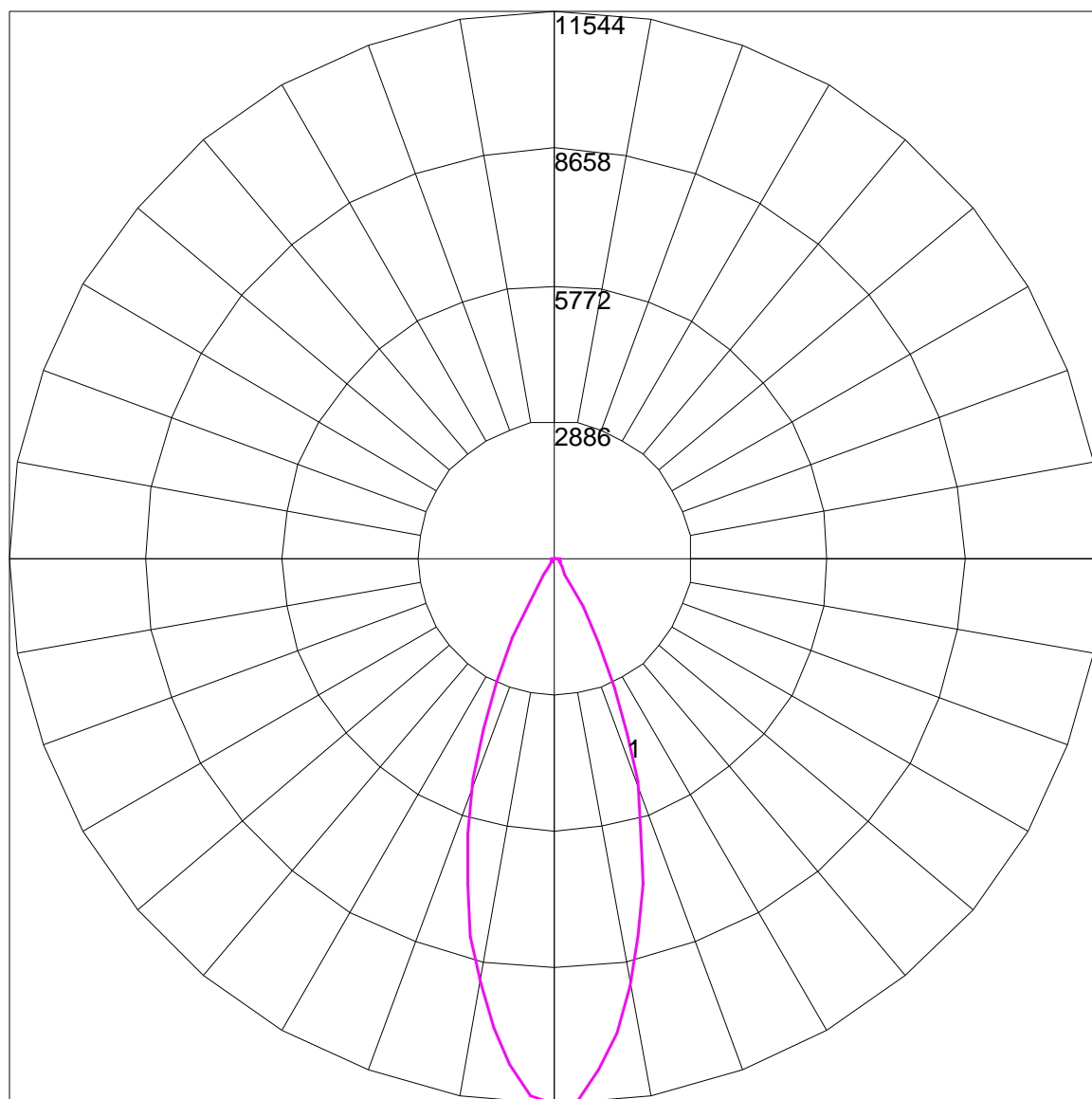
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	114	112	109	107	112	109	107	106	105	104	102	102	100	99	98	97	96	95
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	93	91	90
3	105	99	95	91	103	98	94	91	95	92	89	93	90	88	91	88	86	85
4	101	94	89	86	99	93	89	85	91	87	84	89	86	83	87	84	82	81
5	97	90	85	81	95	89	84	80	87	83	80	85	82	79	84	81	78	77
6	93	85	80	77	92	85	80	76	83	79	76	82	78	75	81	78	75	74
7	90	82	77	73	88	81	76	73	80	76	73	79	75	72	78	74	72	71
8	86	78	73	70	85	78	73	70	77	73	69	76	72	69	75	72	69	68
9	83	75	70	67	82	75	70	67	74	70	67	73	69	66	72	69	66	65
10	80	72	68	64	80	72	67	64	71	67	64	71	67	64	70	66	64	63

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00625_8 ~ SGE6BX60L-35KMD-DO101-AR6BXMWWF.IES

POLAR GRAPH



Maximum Candela = 11544.476 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180)