

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00621_12 ~ SGE8BX80L-35KMD-DO101-AR8BXSGWF.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] SP-00621_12
[TESTLAB] Spectrum Lighting Photometric Lab, VLS-245-981
[MANUFAC] Spectrum Lighting
[ISSUE DATE] 6/7/2018
[UPDATE] 7/13/2018
[LUMCAT] SGE8BX-80L35K-MD-DO101-AR8BX-SGWF
[LUMINAIRE] Nom. 8" Diam x 9" H, Open aperture
[OTHER] Semi-diffuse aluminum reflector trim
[OTHER] Deep regressed retrofit high output LED downlight
[OTHER] BX Series, Medium Beam
[OTHER] 41 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

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6443
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	107
Total Luminaire Watts	60
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.68
Spacing Criterion (90-270)	0.68
Spacing Criterion (Diagonal)	0.68
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.63 ft (Diameter)
Luminous Width (90-270)	0.63 ft (Diameter)
Luminous Height	0.00 ft

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00621_12 ~ SGE8BX80L-35KMD-DO101-AR8BXSGWF.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	250	227	274
55	101	113	138
65	89	141	86
75	136	156	84
85	406	316	405

IES INDOOR REPORT

PHOTOMETRIC FILENAME : SP-00621_12 ~ SGE8BX80L-35KMD-DO101-AR8BXSGWF.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	13117.450	13117.450	13117.450	13117.450	13117.450	13117.450	13117.450	13117.450	13117.450	13117.450
2.5	13070.900	13087.000	13059.980	13093.550	13063.650	12832.510	12941.990	12966.600	13052.590	13032.510
5.0	12747.630	12785.840	12705.790	12745.660	12702.420	12365.820	12519.940	12543.040	12644.070	12640.130
7.5	12290.280	12327.910	12192.750	12275.230	12196.030	11732.750	11942.190	11972.150	12088.560	12048.430
10.0	11503.960	11592.330	11381.560	11494.900	11398.980	10806.540	11083.980	11052.220	11208.900	11136.800
12.5	10616.370	10668.400	10449.090	10577.750	10479.250	9770.616	10067.550	10037.040	10183.670	10085.920
15.0	9468.841	9576.668	9279.471	9438.740	9303.436	8533.519	8879.860	8785.940	8960.738	8802.598
17.5	8309.904	8368.443	8092.761	8197.480	8094.507	7316.252	7593.199	7550.016	7646.690	7533.863
20.0	7120.861	7199.730	6871.784	6993.755	6814.669	6136.249	6418.099	6352.712	6448.678	6290.063
22.5	5949.406	6059.505	5732.936	5807.776	5636.262	5028.330	5310.062	5196.311	5306.450	5117.899
25.0	4825.690	4965.525	4762.923	4799.074	4680.748	4061.509	4266.306	4148.914	4252.189	4071.158
27.5	3759.304	3905.660	3794.872	3876.355	3733.824	3104.736	3262.117	3153.837	3241.302	3116.643
30.0	2856.065	2939.355	2831.027	2938.445	2806.607	2168.130	2328.446	2302.194	2380.436	2330.188
32.5	1963.548	2043.660	1891.759	1992.856	1894.829	1305.097	1439.215	1476.599	1595.417	1551.760
35.0	1102.444	1226.986	1006.563	1171.670	1019.424	593.491	766.903	724.487	911.953	788.318
37.5	398.011	472.223	331.910	414.966	342.927	91.963	236.677	142.652	281.980	237.250
40.0	175.698	100.431	140.915	103.235	147.765	41.408	18.282	64.858	43.181	99.255
42.5	6.373	35.541	6.294	31.708	7.377	5.968	8.944	5.841	15.545	6.665
45.0	5.125	5.019	4.652	5.346	5.623	3.823	4.438	4.080	4.363	4.622
47.5	3.926	3.080	3.445	3.966	4.114	2.284	3.247	2.656	2.428	3.218
50.0	2.887	1.917	3.291	2.837	3.246	2.139	2.616	2.293	1.730	3.119
52.5	2.009	1.414	2.894	1.849	2.543	1.922	2.385	2.000	1.744	2.822
55.0	1.684	1.239	1.877	1.348	2.295	1.536	2.067	1.934	1.603	2.104
57.5	1.411	1.347	1.173	1.136	2.013	1.262	1.686	1.815	1.370	1.514
60.0	1.327	1.296	1.286	1.080	1.638	1.261	1.379	1.511	1.330	1.205
62.5	1.229	1.100	1.445	1.120	1.297	1.272	1.129	1.326	1.408	1.010
65.0	1.087	1.354	1.727	1.346	1.052	1.312	0.891	1.563	1.292	1.074
67.5	1.049	1.997	1.742	1.684	0.935	1.210	0.662	1.596	1.062	1.128
70.0	1.280	1.839	1.227	1.293	1.091	0.844	0.905	1.120	0.996	1.167
72.5	1.266	1.247	1.064	0.675	0.972	1.036	1.358	0.959	0.992	1.102
75.0	1.019	1.151	1.174	1.314	0.629	1.641	1.292	1.089	1.037	0.968
77.5	1.028	1.127	1.174	1.319	0.982	1.102	1.079	1.223	0.919	1.175
80.0	0.977	1.150	1.111	0.811	1.198	0.859	0.773	1.280	0.674	1.074
82.5	0.942	1.073	1.002	0.946	1.115	0.929	0.924	1.108	0.628	0.987
85.0	1.026	1.089	0.799	0.919	1.023	0.883	1.322	0.776	0.873	1.064
87.5	0.925	1.247	0.728	1.064	0.978	1.405	0.920	0.960	1.525	0.613
90.0	0.542	0.255	0.545	0.303	1.154	1.167	0.373	0.558	0.498	0.926
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-00621_12 ~ SGE8BX80L-35KMD-DO101-AR8BXSGWF.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	13117.450	13117.450	13117.450	13117.450	13117.450	13117.450	13117.450
2.5	13102.930	13079.660	13095.080	13110.000	13067.180	13086.560	13070.900
5.0	12739.680	12669.200	12712.120	12881.070	12784.790	12790.720	12747.630
7.5	12198.340	12110.680	12154.080	12477.170	12333.920	12365.380	12290.280
10.0	11342.090	11182.400	11276.310	11760.360	11556.460	11617.270	11503.960
12.5	10302.520	10147.440	10223.780	10849.760	10642.850	10719.260	10616.370
15.0	9068.338	8838.626	8994.245	9718.188	9454.218	9604.306	9468.841
17.5	7718.129	7550.968	7665.590	8446.508	8244.012	8385.973	8309.904
20.0	6493.579	6320.161	6464.360	7201.173	6989.113	7200.271	7120.861
22.5	5346.929	5147.931	5337.385	5972.936	5797.811	6030.779	5949.406
25.0	4286.711	4137.672	4305.280	4897.544	4743.932	4910.577	4825.690
27.5	3281.350	3188.621	3329.797	3925.230	3744.563	3815.483	3759.304
30.0	2441.959	2413.753	2481.592	3054.621	2866.069	2904.796	2856.065
32.5	1710.400	1641.103	1712.378	2254.205	2013.642	2090.409	1963.548
35.0	1022.082	875.076	1013.111	1466.807	1220.547	1301.351	1102.444
37.5	362.956	262.209	358.286	688.742	566.319	526.069	398.011
40.0	68.280	120.656	73.036	259.759	242.315	170.762	175.698
42.5	25.403	11.726	28.166	86.800	11.563	49.471	6.373
45.0	6.505	8.367	8.656	10.791	8.601	4.521	5.125
47.5	4.817	5.476	6.288	7.524	5.976	3.149	3.926
50.0	3.789	4.151	4.987	5.372	4.191	2.414	2.887
52.5	3.247	3.010	4.426	4.087	2.695	2.056	2.009
55.0	2.593	2.506	3.522	3.107	1.954	1.865	1.684
57.5	1.855	2.049	2.376	2.370	1.440	1.775	1.411
60.0	1.515	1.768	1.821	1.805	1.538	1.476	1.327
62.5	1.486	1.496	1.700	1.383	1.638	1.045	1.229
65.0	1.399	1.255	1.604	1.208	1.738	1.015	1.087

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00621_12 ~ SGE8BX80L-35KMD-DO101-AR8BXSGWF.IES****CANDELA TABULATION - (Cont.)**

67.5	1.269	1.095	1.526	1.229	1.644	1.229	1.049
70.0	1.264	1.144	1.144	1.217	1.151	1.462	1.280
72.5	1.318	1.000	0.628	1.188	1.017	1.691	1.266
75.0	1.334	0.675	0.791	1.095	1.171	1.234	1.019
77.5	1.334	1.334	1.115	1.028	1.122	1.006	1.028
80.0	1.277	1.590	1.466	0.982	0.975	1.050	0.977
82.5	0.958	1.358	0.860	0.833	0.797	1.296	0.942
85.0	1.014	1.061	1.242	1.040	0.848	1.082	1.026
87.5	1.152	1.237	1.551	1.053	0.712	0.761	0.925
90.0	0.366	0.874	1.195	0.437	0.835	0.185	0.542
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-00621_12 ~ SGE8BX80L-35KMD-DO101-AR8BXSGWF.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	3686.49	N.A.	57.20
0-30	5741.72	N.A.	89.10
0-40	6420.47	N.A.	99.70
0-60	6439.23	N.A.	99.90
0-80	6441.71	N.A.	100.00
0-90	6442.78	N.A.	100.00
10-90	5272.84	N.A.	81.80
20-40	2733.98	N.A.	42.40
20-50	2750.82	N.A.	42.70
40-70	20.06	N.A.	0.30
60-80	2.49	N.A.	0.00
70-80	1.18	N.A.	0.00
80-90	1.06	N.A.	0.00
90-110	0.09	N.A.	0.00
90-120	0.09	N.A.	0.00
90-130	0.09	N.A.	0.00
90-150	0.09	N.A.	0.00
90-180	0.09	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	6442.86	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1169.94
10-20	2516.55
20-30	2055.23
30-40	678.75
40-50	16.84
50-60	1.92
60-70	1.31
70-80	1.18
80-90	1.06
90-100	0.09
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-00621_12 ~ SGE8BX80L-35KMD-DO101-AR8BXSGWF.IES

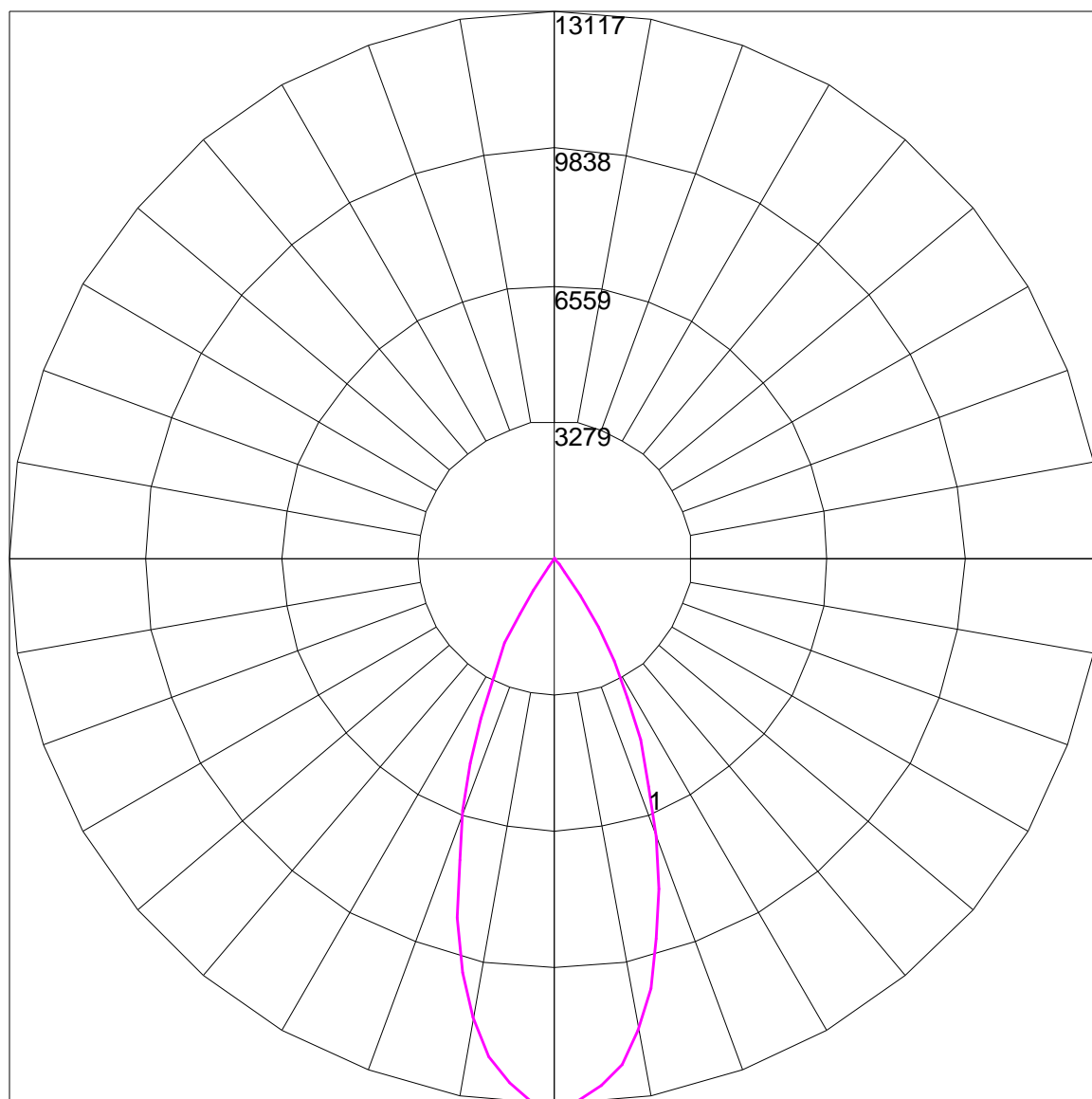
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95
2	110	106	102	99	108	104	101	98	101	98	96	98	96	94	95	93	92	90
3	105	100	96	92	103	99	95	92	96	93	90	94	91	89	91	89	87	86
4	101	95	90	87	99	94	89	86	92	88	85	90	87	84	88	85	83	82
5	97	90	85	82	96	89	85	81	88	84	81	86	83	80	84	82	79	78
6	93	86	81	77	92	85	80	77	84	80	76	82	79	76	81	78	75	74
7	90	82	77	73	88	81	76	73	80	76	73	79	75	72	78	75	72	71
8	86	78	73	70	85	78	73	70	77	72	69	76	72	69	75	71	69	68
9	83	75	70	67	82	74	70	66	74	69	66	73	69	66	72	68	66	65
10	80	72	67	64	79	71	67	64	71	66	63	70	66	63	69	66	63	62

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00621_12 ~ SGE8BX80L-35KMD-DO101-AR8BXSGWF.IES

POLAR GRAPH



Maximum Candela = 13117.45 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180)