

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : SP-00702\_3 ~ SD1612GV-27L35KEX-MWI-TF2.IES**
**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] SP-00702\_3\_M-27L  
 [TESTLAB] Spectrum Lighting Photometric Lab, VLS-245-981  
 [MANUFAC] Spectrum Lighting  
 [ISSUE DATE] 5/25/2018  
 [UPDATE] 9/4/2018  
 [LUMCAT] SD1612GV-27L-35K-EX-MWI-TF2  
 [LUMINAIRE] Nom. 16" diam reflector x 13.4" H decorative Domo Pendant  
 [OTHER] 4" Frosted Glass Dome  
 [OTHER] 77.1 degree beam angle  
 [LAMP] N/A, Gen3  
 [LAMPCAT] N/A  
 [OTHER] Total Luminaire Watts is approximate  
 [OTHER] This report generated by Spectrum Lighting, scaled from 55L  
 [\_CCTMULT] 27K x 0.971, 30K x 0.985, 40K x 1.03  
 [\_LAMPMULT]  
 [\_CRI]

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1772
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	98
Total Luminaire Watts	18
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.06
Spacing Criterion (90-270)	1.06
Spacing Criterion (Diagonal)	1.12
Basic Luminous Shape	Circular
Luminous Length (0-180)	1.34 ft (Diameter)
Luminous Width (90-270)	1.34 ft (Diameter)
Luminous Height	0.00 ft

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00702\_3 ~ SD1612GV-27L35KEX-MWI-TF2.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3411	3614	3729
55	2208	2303	2352
65	1913	1998	2030
75	1634	1725	1770
85	899	1049	1174

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**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>
<b>0.0</b>	1132.669	1132.669	1132.669	1132.669	1132.669	1132.669	1132.669	1132.669	1132.669	1132.669
<b>2.5</b>	1130.267	1131.003	1131.649	1131.918	1132.707	1126.635	1125.317	1121.455	1123.277	1118.793
<b>5.0</b>	1116.750	1121.079	1122.205	1124.856	1119.626	1112.055	1112.373	1105.117	1103.191	1098.487
<b>7.5</b>	1095.547	1101.052	1098.841	1101.248	1096.941	1086.842	1086.291	1077.789	1077.116	1069.778
<b>10.0</b>	1067.436	1074.703	1071.432	1075.499	1067.369	1056.472	1055.915	1047.457	1044.641	1037.603
<b>12.5</b>	1035.792	1043.188	1037.820	1040.433	1033.159	1020.903	1020.815	1012.590	1011.198	1002.309
<b>15.0</b>	1001.353	1009.038	1002.986	1004.694	996.962	985.022	984.541	977.552	976.885	967.838
<b>17.5</b>	965.786	973.656	966.608	968.950	959.687	948.885	949.993	942.305	942.694	933.968
<b>20.0</b>	930.993	937.778	931.545	933.268	924.529	914.652	915.754	908.490	908.592	900.660
<b>22.5</b>	896.440	902.934	897.838	899.549	890.299	881.732	882.727	876.128	875.569	867.685
<b>25.0</b>	861.549	868.416	864.282	865.903	857.620	849.292	849.836	843.898	843.192	834.693
<b>27.5</b>	826.576	834.749	830.858	833.118	825.481	817.119	818.699	811.777	810.903	801.691
<b>30.0</b>	790.838	801.285	795.886	799.847	792.028	783.899	787.663	778.522	778.655	766.602
<b>32.5</b>	754.973	760.532	759.824	763.270	758.233	750.218	749.302	744.493	737.084	730.708
<b>35.0</b>	689.381	718.571	703.150	719.838	704.361	693.520	708.803	684.786	691.934	660.919
<b>37.5</b>	620.772	631.007	634.759	643.349	646.673	628.616	622.591	610.706	601.346	581.160
<b>40.0</b>	505.691	538.653	534.211	558.696	540.629	525.573	534.415	508.454	497.169	473.134
<b>42.5</b>	388.340	430.739	418.609	445.501	428.453	412.261	425.691	393.440	398.277	358.747
<b>45.0</b>	316.333	322.201	335.153	345.837	345.778	332.998	324.490	315.783	300.568	292.728
<b>47.5</b>	246.365	270.516	263.474	282.182	265.047	260.463	270.302	251.323	252.479	234.128
<b>50.0</b>	215.686	220.142	224.301	229.711	230.965	224.869	221.577	215.779	211.962	205.440
<b>52.5</b>	186.045	194.738	194.160	201.374	197.978	194.210	196.350	188.103	187.687	179.435
<b>55.0</b>	166.119	170.190	173.223	176.803	176.899	173.567	173.052	168.317	164.926	161.536
<b>57.5</b>	147.131	153.604	154.223	158.721	156.363	153.645	156.134	150.109	149.496	144.011
<b>60.0</b>	133.576	137.525	139.333	142.450	141.818	139.246	139.979	135.621	134.380	130.496
<b>62.5</b>	119.947	124.371	125.020	128.701	127.249	124.966	125.758	121.622	121.122	117.000
<b>65.0</b>	106.005	111.042	110.731	114.581	112.521	110.897	111.580	108.010	107.838	103.808
<b>67.5</b>	92.457	97.030	96.491	100.043	98.256	96.905	97.485	94.440	94.248	90.613
<b>70.0</b>	79.871	83.263	83.535	86.055	85.543	83.412	83.878	81.158	80.805	77.402
<b>72.5</b>	67.551	69.914	70.796	72.414	72.821	70.298	70.777	68.429	67.809	64.718
<b>75.0</b>	55.458	57.394	58.538	60.575	60.089	57.761	58.621	56.894	55.553	52.749
<b>77.5</b>	44.108	45.496	46.785	48.509	48.250	47.119	46.663	44.977	43.744	41.424
<b>80.0</b>	32.573	34.550	35.132	36.068	36.482	35.739	34.702	33.158	31.681	30.416
<b>82.5</b>	20.964	22.782	23.375	24.572	24.570	23.413	23.420	21.911	20.873	19.213
<b>85.0</b>	10.273	13.110	11.986	13.703	13.422	12.426	12.293	11.363	9.936	8.296
<b>87.5</b>	2.230	3.343	3.533	4.293	4.853	3.710	3.907	2.639	2.376	1.654
<b>90.0</b>	0.463	0.220	0.587	0.193	0.513	0.512	0.180	0.511	0.267	0.449
<b>92.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>95.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>97.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>100.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>102.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>105.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>107.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>110.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>112.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>115.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>117.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>120.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>122.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>125.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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**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	1132.669	1132.669	1132.669	1132.669	1132.669	1132.669	1132.669
2.5	1120.105	1118.898	1123.599	1124.339	1122.318	1126.618	1130.267
5.0	1099.945	1099.365	1101.774	1106.422	1106.767	1114.742	1116.750
7.5	1070.803	1067.854	1074.289	1079.331	1079.355	1091.088	1095.547
10.0	1038.670	1035.521	1042.125	1047.234	1049.629	1063.436	1067.436
12.5	1004.825	1000.844	1008.002	1013.741	1016.303	1030.935	1035.792
15.0	970.544	966.336	972.523	979.645	982.987	997.146	1001.353
17.5	936.124	932.207	938.217	946.153	949.686	962.645	965.786
20.0	901.678	898.569	904.567	912.874	915.971	928.009	930.993
22.5	868.522	865.811	871.279	878.997	881.826	894.101	896.440
25.0	835.518	832.731	838.152	844.963	847.893	860.282	861.549
27.5	802.311	799.176	804.341	811.458	814.146	826.475	826.576
30.0	769.092	761.403	770.285	778.053	776.139	792.669	790.838
32.5	723.139	718.509	720.070	729.859	735.134	746.833	754.973
35.0	675.020	649.345	665.472	679.766	665.342	698.895	689.381
37.5	572.165	554.161	565.215	578.526	578.675	600.110	620.772
40.0	469.863	453.959	456.089	473.846	474.607	500.877	505.691
42.5	373.334	349.586	365.070	378.319	362.392	396.500	388.340
45.0	284.299	279.036	276.498	284.635	292.234	299.711	316.333
47.5	242.082	231.348	236.286	243.526	237.486	253.324	246.365
50.0	203.391	199.372	199.622	203.894	204.851	210.744	215.686
52.5	180.597	175.954	177.316	180.802	178.619	185.752	186.045
55.0	159.695	157.808	155.493	158.852	160.214	163.007	166.119
57.5	145.045	142.019	142.192	144.604	143.455	148.003	147.131
60.0	130.793	128.059	128.898	130.560	129.947	133.469	133.576
62.5	117.546	114.738	115.692	117.467	116.894	120.176	119.947
65.0	104.129	101.734	102.470	104.348	103.337	106.690	106.005

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67.5	90.377	88.812	89.152	91.144	89.765	92.820	92.457
70.0	77.208	76.080	76.085	78.018	76.960	79.315	79.871
72.5	64.646	63.492	63.587	65.011	64.451	66.198	67.551
75.0	52.359	51.416	51.504	52.984	52.601	54.111	55.458
77.5	40.666	39.586	39.780	41.435	41.247	42.370	44.108
80.0	30.060	28.348	28.672	30.239	30.139	30.877	32.573
82.5	19.054	17.976	17.866	19.001	19.253	20.323	20.964
85.0	8.512	7.258	7.669	8.228	9.067	9.371	10.273
87.5	1.479	1.245	1.048	1.379	2.060	1.948	2.230
90.0	0.231	0.472	0.374	0.219	0.492	0.248	0.463
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

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Zone	Lumens	%Lamp	%Fixt
0-20	381.63	N.A.	21.50
0-30	773.21	N.A.	43.60
0-40	1190.36	N.A.	67.20
0-60	1593.25	N.A.	89.90
0-80	1758.57	N.A.	99.20
0-90	1772.32	N.A.	100.00
10-90	1668.17	N.A.	94.10
20-40	808.73	N.A.	45.60
20-50	1060.38	N.A.	59.80
40-70	509.26	N.A.	28.70
60-80	165.32	N.A.	9.30
70-80	58.95	N.A.	3.30
80-90	13.76	N.A.	0.80
90-110	0.05	N.A.	0.00
90-120	0.05	N.A.	0.00
90-130	0.05	N.A.	0.00
90-150	0.05	N.A.	0.00
90-180	0.05	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	1772.38	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	104.16
10-20	277.47
20-30	391.58
30-40	417.15
40-50	251.65
50-60	151.24
60-70	106.37
70-80	58.95
80-90	13.76
90-100	0.05
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

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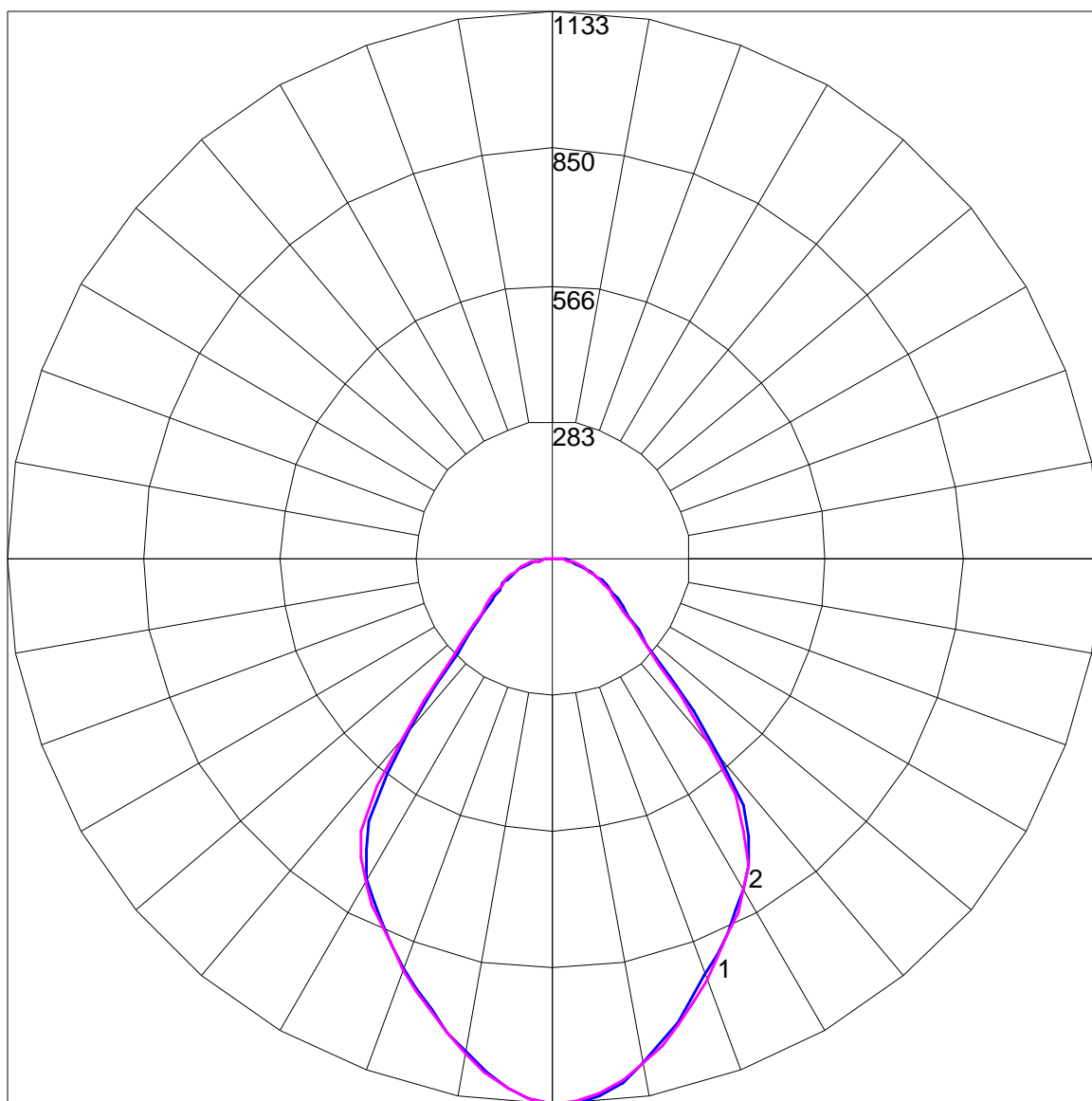
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	88
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	78
3	96	87	80	75	94	86	79	74	83	78	73	80	76	72	78	74	71	69
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	61
5	83	72	65	59	81	71	64	59	69	63	58	67	62	58	66	61	57	55
6	78	66	59	53	76	65	58	53	64	57	53	62	56	52	61	56	52	50
7	73	61	54	48	71	60	53	48	59	52	48	58	52	47	56	51	47	45
8	68	57	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	41
9	64	53	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40	38
10	61	49	42	37	60	48	42	37	48	41	37	47	41	37	46	41	37	35

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : SP-00702\_3 ~ SD1612GV-27L35KEX-MWI-TF2.IES

POLAR GRAPH



Maximum Candela = 1132.707 Located At Horizontal Angle = 90, Vertical Angle = 2.5  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)  
# 2 - Vertical Plane Through Horizontal Angles (0 - 180)