

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : SP-00725 ~ TT1811GV-27L35KEX-MWI-PT-TF2.IES**
**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] SP-00725\_M-27L  
 [TESTLAB] Spectrum Lighting Photometric Lab, VLS-245-981  
 [MANUFAC] Spectrum Lighting  
 [ISSUEDATE] 10/30/2018  
 [UPDATE] 12/31/2018  
 [LUMCAT] TT1811GV-27L-35K-EX-MWI-PT-TF2  
 [LUMINAIRE] Nom 18.4" diam reflector x 11.4" H, Tip Top decorative luminaire  
 [OTHER] Matte white interior finish  
 [OTHER] Platinum outside finish  
 [OTHER] 4" Low profile frosted glass dome  
 [OTHER] Beam Angle: 104.4 deg  
 [LAMPCAT] N/A, Gen3  
 [LAMP] N/A  
 [OTHER] Total Luminaire watts is approximate  
 [OTHER] CCT multipliers: 27K x 0.971, 30K x 0.985, 40K x 1.03  
 [OTHER] This report generated by Spectrum Lighting, scaled from 55L  
 [\_CRI] 85+  
 [\_CCTMULT] 27K x 0.971, 30K x 0.985, 40K x 1.03  
 [\_LAMPMULT] 15L x 0.265, 27L x 0.463, 37L x 0.68

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1877
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	104
Total Luminaire Watts	18
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.26
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.40
Basic Luminous Shape	Circular
Luminous Length (0-180)	1.53 ft (Diameter)
Luminous Width (90-270)	1.53 ft (Diameter)
Luminous Height	0.00 ft

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00725 ~ TT1811GV-27L35KEX-MWI-PT-TF2.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4476	4542	4431
55	3359	3442	3328
65	1417	1424	1417
75	1062	1097	1099
85	613	638	659

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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>
0.0	791.861	791.861	791.861	791.861	791.861	791.861	791.861	791.861	791.861	791.861
2.5	790.560	790.460	792.483	793.149	793.676	792.148	791.648	790.679	790.666	790.178
5.0	786.759	788.108	791.446	792.418	792.644	792.017	789.287	788.388	786.913	786.713
7.5	782.436	784.411	788.795	789.277	790.968	788.296	785.616	783.604	782.086	781.768
10.0	776.865	780.282	784.358	785.930	786.287	783.921	780.688	778.754	776.014	775.675
12.5	771.415	775.728	780.127	782.061	781.632	778.794	775.272	772.043	769.582	768.506
15.0	766.230	769.958	776.101	776.936	777.084	773.550	768.155	765.251	761.679	760.587
17.5	759.098	763.093	768.628	769.020	770.809	765.840	760.460	757.128	753.414	751.157
20.0	748.174	751.290	758.012	757.717	758.702	757.826	748.688	748.376	741.254	740.780
22.5	734.194	735.484	741.769	739.728	743.955	739.824	735.713	732.262	728.245	726.321
25.0	714.900	716.476	720.838	719.636	721.172	720.909	715.715	715.602	709.417	709.502
27.5	694.496	695.097	699.527	695.722	698.081	697.527	693.859	694.256	689.536	689.933
30.0	672.337	673.834	677.931	672.436	674.172	673.834	671.680	672.857	668.111	668.945
32.5	650.655	652.649	656.947	650.172	650.856	650.672	649.428	651.087	646.461	647.852
35.0	629.661	631.295	636.384	628.665	628.930	627.532	626.684	629.354	625.602	626.711
37.5	608.238	609.837	615.377	608.277	606.626	604.411	603.847	607.831	604.841	605.893
40.0	586.261	588.023	594.093	586.654	583.510	581.287	581.317	586.200	583.830	585.211
42.5	563.915	566.012	571.835	563.363	559.980	557.387	558.836	564.059	562.797	564.512
45.0	541.136	542.323	549.031	538.565	535.663	533.366	533.477	541.035	539.702	543.807
47.5	513.808	517.798	521.237	511.937	507.532	505.655	507.753	514.345	516.484	517.757
50.0	481.562	471.261	490.879	469.604	472.904	475.480	461.879	477.820	469.520	489.985
52.5	419.845	414.996	422.818	409.833	416.644	404.886	414.003	406.388	421.618	421.348
55.0	329.408	328.694	337.555	332.906	326.344	333.169	320.414	330.264	322.792	340.843
57.5	249.281	230.468	256.847	238.562	245.631	247.851	223.490	239.746	223.977	257.403
60.0	178.343	170.748	177.976	171.488	178.459	167.606	170.610	163.433	170.320	173.233
62.5	130.933	124.689	134.083	129.369	129.139	131.954	119.664	126.623	117.643	130.386
65.0	102.418	98.330	102.886	99.870	102.349	98.631	96.514	94.877	94.083	96.412
67.5	82.038	76.938	83.396	79.314	81.589	80.441	74.472	75.307	71.664	76.583
70.0	65.879	64.975	67.020	66.333	65.759	64.471	62.467	60.075	59.515	59.222
72.5	55.961	54.459	57.965	55.823	56.765	55.572	51.595	51.518	48.848	50.971
75.0	46.977	46.240	48.544	47.374	48.626	46.819	43.691	42.895	41.532	43.063
77.5	38.657	36.226	38.815	37.459	39.194	38.201	34.680	34.347	33.602	35.213
80.0	29.361	25.735	29.187	27.039	29.025	28.444	25.415	26.661	25.294	27.146
82.5	18.860	15.755	19.198	17.256	19.551	18.650	16.814	16.849	16.672	18.597
85.0	9.134	6.755	9.502	7.737	9.826	9.655	7.152	8.275	7.491	9.865
87.5	2.236	1.010	2.205	1.423	2.409	2.873	1.427	2.353	2.093	3.601
90.0	0.000	0.000	0.000	0.000	0.000	0.427	0.380	0.536	0.474	0.510
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

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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. 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	791.861	791.861	791.861	791.861	791.861	791.861	791.861
2.5	789.413	790.352	789.869	787.918	789.095	789.722	790.560
5.0	785.086	786.903	784.591	783.669	784.928	786.465	786.759
7.5	779.220	780.003	778.838	777.160	779.596	780.370	782.436
10.0	772.369	772.165	770.796	770.167	772.108	774.209	776.865
12.5	764.849	763.971	762.473	761.509	764.697	767.053	771.415
15.0	756.500	755.692	754.068	752.882	757.418	759.818	766.230
17.5	747.638	747.314	745.656	744.350	748.808	751.709	759.098
20.0	735.699	738.916	733.746	734.061	738.163	742.662	748.174
22.5	722.032	723.443	721.608	719.099	724.023	725.813	734.194
25.0	704.079	706.754	702.452	702.446	705.008	708.280	714.900
27.5	683.980	685.710	683.011	681.767	685.019	686.302	694.496
30.0	662.926	664.048	662.465	661.017	663.792	664.425	672.337
32.5	641.435	643.074	641.902	640.118	642.769	643.107	650.655
35.0	620.570	622.175	621.568	619.738	621.982	621.779	629.661
37.5	599.960	602.012	601.237	600.348	601.024	600.406	608.238
40.0	579.549	581.909	580.989	580.671	579.888	578.923	586.261
42.5	559.207	562.125	560.741	560.497	558.751	557.012	563.915
45.0	538.025	542.359	540.523	539.006	537.613	534.364	541.136
47.5	516.572	516.999	518.162	515.475	510.908	509.141	513.808
50.0	470.762	491.481	471.109	473.373	479.392	473.397	481.562
52.5	418.151	413.844	418.682	404.653	415.636	405.848	419.845
55.0	327.996	335.771	319.050	325.592	326.418	332.574	329.408
57.5	228.901	248.924	224.894	233.203	247.131	244.175	249.281
60.0	170.202	164.239	169.249	164.536	175.004	170.225	178.343
62.5	119.988	127.884	118.299	123.401	128.383	131.098	130.933
65.0	93.321	92.743	93.861	93.424	98.156	98.771	102.418

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**CANDELA TABULATION - (Cont.)**

67.5	70.734	74.978	71.850	73.857	78.108	78.488	82.038
70.0	59.144	58.763	59.216	60.965	62.437	64.252	65.879
72.5	48.898	50.092	48.970	50.962	53.764	54.556	55.961
75.0	41.465	42.037	42.241	43.117	45.138	45.676	46.977
77.5	33.804	34.759	34.113	34.569	36.026	36.677	38.657
80.0	25.796	26.224	25.376	25.405	26.817	27.289	29.361
82.5	16.717	17.436	16.223	16.160	18.463	17.411	18.860
85.0	8.466	9.088	7.292	7.577	9.629	8.475	9.134
87.5	1.691	2.853	1.789	1.628	2.661	1.564	2.236
90.0	0.493	0.409	0.626	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

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	290.85	N.A.	15.50
0-30	618.57	N.A.	33.00
0-40	1010.94	N.A.	53.90
0-60	1715.63	N.A.	91.40
0-80	1865.58	N.A.	99.40
0-90	1876.92	N.A.	100.00
10-90	1802.04	N.A.	96.00
20-40	720.08	N.A.	38.40
20-50	1134.32	N.A.	60.40
40-70	807.60	N.A.	43.00
60-80	149.95	N.A.	8.00
70-80	47.04	N.A.	2.50
80-90	11.34	N.A.	0.60
90-110	0.03	N.A.	0.00
90-120	0.03	N.A.	0.00
90-130	0.03	N.A.	0.00
90-150	0.03	N.A.	0.00
90-180	0.03	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	1876.95	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	74.87
10-20	215.98
20-30	327.72
30-40	392.36
40-50	414.23
50-60	290.46
60-70	102.91
70-80	47.04
80-90	11.34
90-100	0.03
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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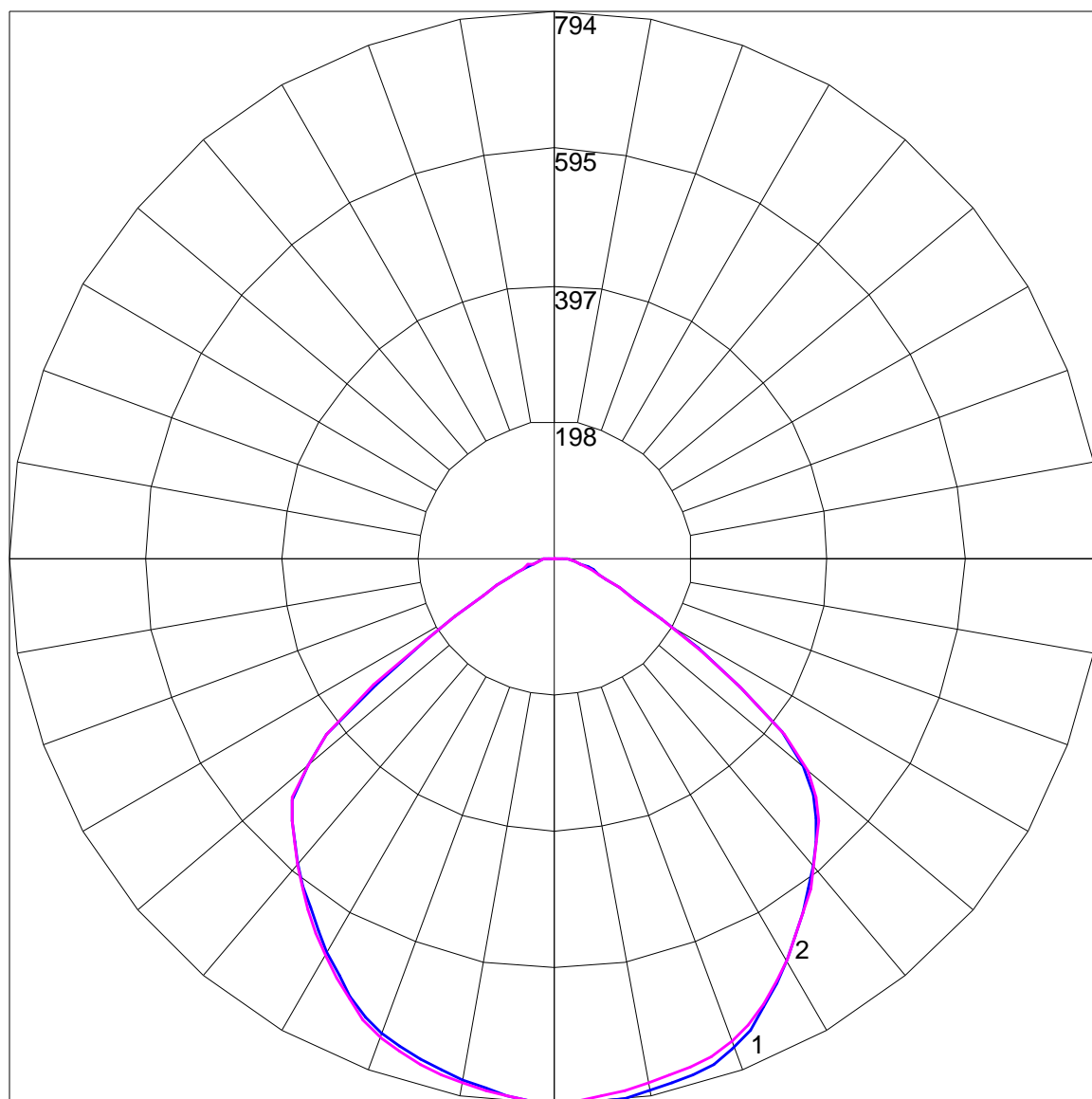
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	103	100	108	104	101	98	100	98	95	96	94	92	93	91	90	88
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76
3	94	85	78	72	92	83	77	71	80	75	70	78	73	69	75	71	68	66
4	87	76	68	62	85	75	67	62	72	66	61	70	64	60	68	63	59	57
5	80	68	60	54	78	67	60	54	65	58	53	63	57	53	62	56	52	50
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44
7	69	56	48	42	67	55	48	42	54	47	42	53	46	42	51	46	41	39
8	64	51	43	38	63	51	43	38	50	43	38	48	42	37	47	41	37	35
9	60	47	39	34	59	47	39	34	46	39	34	45	38	34	44	38	34	32
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	40	35	31	29

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : SP-00725 ~ TT1811GV-27L35KEX-MWI-PT-TF2.IES

POLAR GRAPH



Maximum Candela = 793.676 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)