

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00338_3 ~ EB1214GV-27L35KEX-TF1-MWI.IES
DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] SP-00338_3
 [TESTLAB] Spectrum Photometric Lab VLS-245-981
 [MANUFAC] Spectrum Lighting
 [ISSUEDATE] 4/20/2018
 [UPDATE] 4/26/2018
 [LUMCAT] EB1214GV-27L-35K-EX-TF1-MWI
 [LUMINAIRE] Nom. 12" diam x 12.1" H, Angled Emblem Sign Light
 [OTHER] Regressed, 4" diam. low profile frosted glass diffuser
 [OTHER] Reflector: Matte White interior finish
 [LAMP] N/A, Gen3
 [LAMPCAT] N/A
 [OTHER] Total Luminaire Watts is approximate
 [OTHER] This report generated by Spectrum Lighting
 [_CRI]85+
 [_CCTMULT] 27K x 0.971, 30K x 0.985, 40K x 1.03
 [_LAMPMULT] 15L x 0.573

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2184
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	121
Total Luminaire Watts	18
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.36
Spacing Criterion (90-270)	0.70
Spacing Criterion (Diagonal)	1.04
Basic Luminous Shape	Circular
Luminous Length (0-180)	1.03 ft (Diameter)
Luminous Width (90-270)	1.03 ft (Diameter)
Luminous Height	0.00 ft

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00338_3 ~ EB1214GV-27L35KEX-TF1-MWI.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	12919	218	26
55	10936	90	18
65	3154	43	33
75	2629	41	54
85	4622	136	134

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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	920.494	920.494	920.494	920.494	920.494	920.494	920.494	920.494	920.494	920.494
2.5	918.763	919.399	918.348	916.476	916.278	915.601	916.729	915.908	916.953	920.657
5.0	918.862	917.372	911.776	909.242	908.916	908.063	909.633	911.167	913.786	918.799
7.5	918.414	915.096	905.895	901.576	901.424	899.830	902.315	906.218	910.227	916.550
10.0	916.620	908.349	901.015	891.951	893.097	889.938	891.165	896.274	904.090	912.049
12.5	913.440	901.437	893.293	882.182	870.906	855.441	876.409	886.246	897.687	907.089
15.0	907.674	893.266	882.445	836.502	791.087	777.141	828.203	875.420	887.910	900.454
17.5	900.318	884.330	865.491	781.669	672.793	635.985	757.357	860.260	877.923	893.389
20.0	890.735	871.797	843.334	592.118	445.753	409.291	568.707	822.774	864.865	885.196
22.5	880.034	858.373	757.655	403.534	248.509	226.478	382.022	761.018	851.448	875.244
25.0	868.141	842.168	630.301	221.852	112.101	89.158	201.968	614.680	834.863	861.923
27.5	854.795	822.636	468.848	69.207	25.734	23.362	66.152	460.433	815.830	847.169
30.0	840.234	795.701	290.694	40.165	17.926	15.766	37.336	286.859	784.768	830.325
32.5	823.187	738.551	163.849	17.263	11.858	10.561	16.760	147.917	736.486	812.453
35.0	804.563	630.062	55.489	12.052	7.861	6.829	11.065	71.136	631.501	793.425
37.5	783.396	508.445	28.520	7.952	4.967	4.596	7.467	25.029	516.195	772.893
40.0	761.028	369.977	22.022	6.231	3.077	3.048	6.719	21.603	376.443	751.070
42.5	736.816	243.401	16.909	4.569	1.976	2.086	5.275	17.904	247.904	726.721
45.0	711.954	128.634	12.009	3.000	1.438	1.322	3.099	13.916	138.934	700.701
47.5	682.127	66.010	9.185	1.884	1.192	1.211	1.799	10.779	67.764	671.953
50.0	651.112	43.419	6.516	1.313	1.104	1.248	1.211	8.341	47.079	641.837
52.5	573.433	32.316	5.282	1.113	0.959	1.250	1.041	5.960	34.420	575.030
55.0	488.831	27.869	4.035	1.264	0.792	1.247	1.130	3.617	30.047	494.877
57.5	381.619	24.156	2.468	1.273	0.902	1.079	1.147	2.360	25.574	392.949
60.0	272.874	20.762	1.115	1.180	1.090	0.904	1.131	1.613	21.024	285.480
62.5	186.177	17.223	1.304	1.235	1.104	1.022	1.192	1.366	17.658	197.770
65.0	103.889	13.639	1.411	1.371	1.085	1.132	1.278	1.289	15.020	113.249
67.5	83.993	10.206	1.161	1.257	1.128	1.151	1.329	1.243	11.894	88.192
70.0	65.836	6.805	0.952	1.041	1.178	1.171	1.372	1.204	8.547	67.718
72.5	59.324	4.292	0.862	1.089	1.137	1.190	1.422	1.203	5.840	62.084
75.0	53.035	1.886	0.834	1.214	1.094	1.177	1.473	1.207	3.342	56.712
77.5	47.648	1.331	0.936	1.202	1.064	1.038	1.291	1.187	2.132	52.913
80.0	42.289	0.872	0.979	1.163	1.029	0.933	1.096	1.165	1.215	48.824
82.5	37.007	0.919	0.929	1.276	0.954	0.918	1.165	1.257	1.116	42.683
85.0	31.396	0.962	0.927	1.405	0.907	0.916	1.225	1.340	1.126	36.308
87.5	25.099	0.957	0.982	1.230	1.001	0.943	1.170	1.301	1.191	28.893
90.0	19.009	0.966	1.108	1.047	1.081	0.954	1.130	1.286	1.258	21.610
92.5	13.239	1.053	1.299	0.921	1.117	0.943	1.182	1.433	1.354	14.717
95.0	8.129	1.137	1.325	0.830	1.147	1.041	1.303	1.524	1.414	8.679
97.5	3.816	1.207	1.231	1.063	1.162	1.265	1.685	1.390	1.051	4.468
100.0	1.591	1.249	1.201	1.276	1.165	1.325	1.885	1.248	0.775	1.711
102.5	1.290	1.218	1.207	1.387	1.147	1.237	1.577	1.084	1.015	1.334
105.0	1.164	1.210	1.203	1.494	1.129	1.185	1.310	1.005	1.212	1.092
107.5	1.160	1.244	1.195	1.587	1.110	1.156	1.127	1.102	1.245	1.018
110.0	1.173	1.313	1.189	1.639	1.102	1.307	0.987	1.323	1.325	0.930
112.5	1.194	1.430	1.183	1.595	1.106	1.552	0.915	1.737	1.527	0.828
115.0	1.121	1.389	1.149	1.547	1.141	1.471	0.900	1.800	1.564	0.940
117.5	1.010	1.173	1.109	1.492	1.200	1.265	0.952	1.456	1.274	1.211
120.0	1.085	1.066	1.046	1.460	1.292	1.235	1.184	1.301	1.139	1.229
122.5	1.211	1.053	0.982	1.462	1.405	1.252	1.578	1.319	1.237	1.106
125.0	1.163	1.039	0.999	1.544	1.289	1.198	1.598	1.395	1.215	1.195

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CANDELA TABULATION - (Cont.)

127.5	1.082	1.025	1.022	1.709	1.071	1.130	1.359	1.511	1.057	1.371
130.0	1.089	1.157	1.138	1.678	1.199	1.137	1.355	1.490	0.959	1.321
132.5	1.104	1.360	1.250	1.489	1.440	1.150	1.476	1.398	0.914	1.203
135.0	1.168	1.337	1.323	1.438	1.300	1.334	1.517	1.419	1.028	1.351
137.5	1.230	1.232	1.357	1.474	1.078	1.508	1.529	1.486	1.249	1.550
140.0	1.207	1.118	1.191	1.330	0.985	1.409	1.537	1.358	1.265	1.475
142.5	1.180	1.001	1.086	1.104	0.910	1.344	1.544	1.177	1.177	1.371
145.0	1.123	1.034	1.190	1.226	1.195	1.546	1.719	1.080	1.203	1.393
147.5	1.074	1.091	1.299	1.464	1.495	1.670	1.923	0.998	1.272	1.414
150.0	1.061	1.271	1.421	1.313	1.578	1.441	1.655	1.055	1.432	1.272
152.5	1.072	1.460	1.458	1.072	1.654	1.244	1.345	1.126	1.616	1.146
155.0	1.158	1.324	1.347	1.220	1.649	1.148	1.500	1.182	1.402	1.168
157.5	1.188	1.221	1.235	1.421	1.602	1.132	1.649	1.260	1.123	1.202
160.0	1.107	1.391	1.124	1.461	1.378	1.266	1.658	1.559	1.171	1.276
162.5	1.087	1.477	1.147	1.508	1.260	1.487	1.620	1.753	1.230	1.212
165.0	1.113	1.421	1.210	1.572	1.272	1.764	1.500	1.757	1.306	0.988
167.5	1.107	1.241	1.068	1.512	1.417	1.489	1.288	1.358	1.045	1.094
170.0	1.104	1.184	1.236	1.367	1.356	1.655	1.269	1.273	1.011	1.216
172.5	1.125	1.375	1.481	1.219	1.094	1.666	1.363	1.506	1.465	1.141
175.0	1.352	1.548	1.640	1.347	0.908	1.061	1.248	1.287	1.352	0.901
177.5	1.362	1.386	1.229	1.504	1.454	1.187	1.305	1.433	1.164	1.536
180.0	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000

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	920.494	920.494	920.494	920.494	920.494	920.494	920.494
2.5	922.653	924.935	928.797	925.730	925.649	921.397	918.763
5.0	923.658	927.551	932.117	930.202	927.932	923.524	918.862
7.5	924.579	929.966	935.680	934.620	930.121	925.136	918.414
10.0	922.388	931.821	942.960	940.723	931.819	924.183	916.620
12.5	919.353	934.001	950.448	947.015	933.637	922.303	913.440
15.0	913.716	936.843	959.340	956.784	935.860	917.280	907.674
17.5	907.609	938.440	967.123	966.476	937.894	912.094	900.318
20.0	900.432	938.131	970.269	969.966	939.465	906.519	890.735
22.5	893.154	935.605	972.525	973.192	938.874	899.756	880.034
25.0	883.958	930.468	972.206	973.893	934.388	890.870	868.141
27.5	874.480	921.510	971.831	973.854	926.605	880.167	854.795
30.0	859.414	909.072	971.342	969.993	914.349	866.984	840.234
32.5	844.306	894.213	966.532	964.219	900.160	852.280	823.187
35.0	828.855	877.675	954.913	951.892	883.916	835.993	804.563
37.5	812.736	860.253	938.323	937.037	866.805	818.550	783.396
40.0	793.507	842.356	915.708	915.984	848.990	800.179	761.028
42.5	773.067	823.540	891.126	893.541	830.476	779.453	736.816
45.0	748.734	804.363	864.723	868.597	811.532	757.273	711.954
47.5	723.989	782.308	837.912	842.328	790.472	734.504	682.127
50.0	698.302	759.469	810.810	814.213	768.416	711.465	651.112
52.5	671.211	733.656	780.461	785.525	743.504	684.050	573.433
55.0	641.752	707.303	748.342	756.231	717.626	655.173	488.831
57.5	605.757	676.463	714.554	723.719	686.596	620.708	381.619
60.0	561.187	645.198	680.100	688.602	654.368	584.960	272.874
62.5	510.257	590.409	630.872	642.757	604.609	528.536	186.177
65.0	452.966	534.870	577.356	590.131	552.348	469.314	103.889

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67.5	390.136	472.547	515.069	528.691	489.266	406.896	83.993
70.0	323.020	410.493	451.141	463.106	425.533	344.269	65.836
72.5	262.104	350.659	390.785	401.577	363.272	280.620	59.324
75.0	204.866	295.226	330.783	341.416	302.817	218.861	53.035
77.5	172.887	260.378	300.225	306.574	266.240	180.091	47.648
80.0	151.986	233.013	271.632	277.749	233.947	145.452	42.289
82.5	141.230	229.799	270.146	271.804	228.468	136.981	37.007
85.0	133.693	225.667	268.316	269.117	223.012	128.023	31.396
87.5	122.207	219.431	263.558	263.540	217.653	117.162	25.099
90.0	109.871	213.043	258.946	257.780	211.747	105.964	19.009
92.5	99.991	206.394	255.075	253.345	204.330	93.862	13.239
95.0	90.413	198.537	250.899	248.847	195.782	83.669	8.129
97.5	81.836	189.087	245.720	243.508	184.968	77.322	3.816
100.0	73.252	175.972	238.352	237.323	171.804	69.711	1.591
102.5	61.680	159.178	225.794	225.693	155.018	60.197	1.290
105.0	50.141	140.700	210.241	212.286	137.705	49.750	1.164
107.5	38.956	120.914	189.377	191.695	119.775	38.236	1.160
110.0	27.594	104.883	166.609	169.601	104.682	25.733	1.173
112.5	15.193	91.087	141.295	143.360	92.124	12.339	1.194
115.0	4.962	75.830	116.676	120.207	76.677	5.243	1.121
117.5	2.740	59.932	92.774	103.335	59.211	2.449	1.010
120.0	1.116	42.880	71.517	85.437	42.102	1.399	1.085
122.5	1.023	25.460	52.374	65.959	25.178	1.254	1.211
125.0	1.069	13.729	34.741	46.415	13.322	1.286	1.163
127.5	1.383	3.228	18.021	26.793	3.404	1.385	1.082
130.0	1.530	2.042	8.787	13.079	1.127	1.348	1.089
132.5	1.436	2.012	2.962	4.713	0.958	1.275	1.104
135.0	1.383	1.445	1.389	1.139	1.085	1.124	1.168
137.5	1.375	0.863	1.227	0.913	1.263	0.958	1.230
140.0	1.298	0.997	1.147	0.924	1.140	1.031	1.207
142.5	1.161	1.134	1.087	1.059	0.990	1.125	1.180
145.0	1.169	1.307	1.140	1.350	1.240	1.164	1.123
147.5	1.273	1.426	1.208	1.703	1.473	1.197	1.074
150.0	1.356	1.225	1.271	1.523	1.191	1.114	1.061
152.5	1.429	1.075	1.333	1.195	0.962	1.056	1.072
155.0	1.346	1.116	1.310	1.108	1.156	1.193	1.158
157.5	1.207	1.170	1.288	1.063	1.327	1.302	1.188
160.0	1.170	1.254	1.270	0.975	1.418	1.312	1.107
162.5	1.156	1.326	1.304	0.957	1.376	1.364	1.087
165.0	1.181	1.387	1.422	1.151	1.183	1.462	1.113
167.5	1.321	1.393	1.384	1.270	1.130	1.211	1.107
170.0	1.535	1.449	1.316	1.306	1.077	1.079	1.104
172.5	1.685	1.531	1.283	1.299	0.995	1.171	1.125
175.0	1.332	1.462	1.310	1.395	0.986	1.226	1.352
177.5	1.135	1.178	1.441	1.301	1.135	1.173	1.362
180.0	1.000	1.000	1.000	1.000	1.000	1.000	1.000

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Zone	Lumens	%Lamp	%Fixt
0-20	334.73	N.A.	15.30
0-30	648.88	N.A.	29.70
0-40	977.01	N.A.	44.70
0-60	1589.65	N.A.	72.80
0-80	1929.2	N.A.	88.30
0-90	2018.99	N.A.	92.50
10-90	1931.5	N.A.	88.40
20-40	642.27	N.A.	29.40
20-50	961.86	N.A.	44.00
40-70	826.96	N.A.	37.90
60-80	339.56	N.A.	15.50
70-80	125.24	N.A.	5.70
80-90	89.78	N.A.	4.10
90-110	127.98	N.A.	5.90
90-120	154.29	N.A.	7.10
90-130	161.73	N.A.	7.40
90-150	163.71	N.A.	7.50
90-180	164.79	N.A.	7.50
110-180	36.82	N.A.	1.70
0-180	2183.78	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	87.49
10-20	247.25
20-30	314.14
30-40	328.13
40-50	319.58
50-60	293.06
60-70	214.32
70-80	125.24
80-90	89.78
90-100	74.67
100-110	53.31
110-120	26.31
120-130	7.44
130-140	1.19
140-150	0.79
150-160	0.59
160-170	0.37
170-180	0.12

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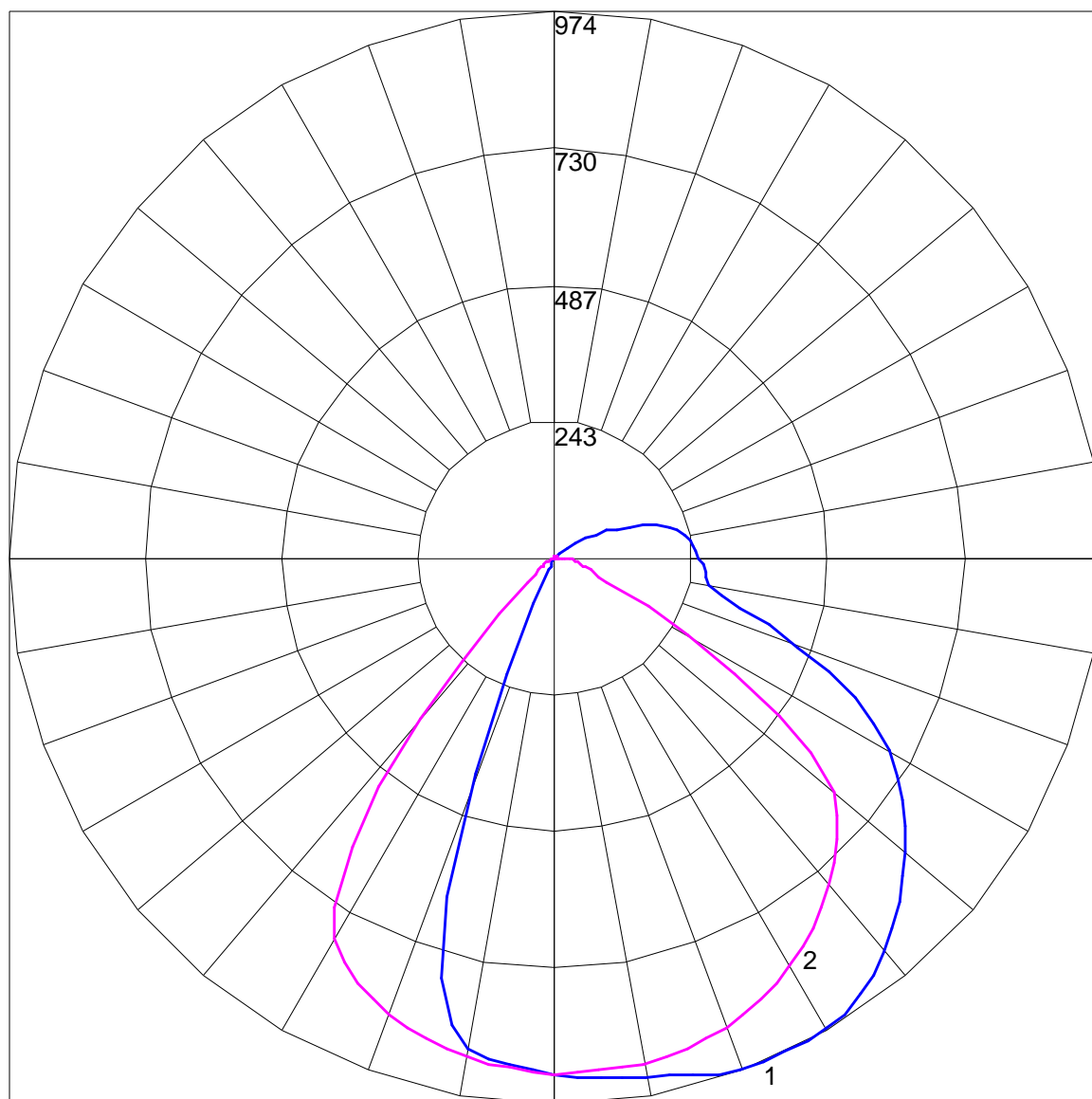
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	95	95	95	92
1	107	102	97	93	103	99	95	91	93	90	87	88	85	83	83	81	79	76
2	97	89	82	77	94	87	80	75	82	77	72	77	73	69	73	70	67	64
3	89	79	71	64	86	77	69	63	73	66	61	69	64	59	65	61	57	55
4	82	70	62	55	79	68	60	54	65	58	53	62	56	51	59	54	50	47
5	76	63	54	48	73	62	53	47	59	52	46	56	50	45	53	48	44	42
6	70	57	49	42	68	56	48	42	53	46	41	51	45	40	49	43	39	37
7	65	52	44	38	63	51	43	37	49	42	37	47	40	36	45	39	35	33
8	61	48	40	34	59	47	39	34	45	38	33	43	37	32	41	36	32	30
9	57	44	36	31	55	43	36	31	42	35	30	40	34	29	38	33	29	27
10	54	41	33	28	52	40	33	28	39	32	27	37	31	27	36	30	27	25

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00338_3 ~ EB1214GV-27L35KEX-TF1-MWI.IES

POLAR GRAPH



Maximum Candela = 973.893 Located At Horizontal Angle = 292.5, Vertical Angle = 25
1 - Vertical Plane Through Horizontal Angles (292.5 - 112.5) (Through Max. Cd.)
2 - Vertical Plane Through Horizontal Angles (0 - 180)