

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00732 ~ SP1414GV-27L35KEX-TF2-MWI.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00732_M-27L

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

[MANUFAC] Spectrum Lighting

[ISSUEDATE] 5/29/2018

[UPDATE] 11/14/2018

[LUMCAT] EP1414GV-27L-35K-EX-TF2-WMI

[LUMINAIRE] Nom. 14" dia x 14" H Espresso Pendant Specplume Decorative luminaire

[OTHER] Reflector: Matte white interior finish

[OTHER] Beam Angle: 78.2 degrees

[LAMPCAT] N/A

[LAMP] N/A, Gen3

[OTHER] 4" Diffuse Domed Glass

[OTHER] Total Luminaire Watts is approximate

[OTHER] CCT Multipliers: 27K x 0.971, 30K x 0.985, 40K x 1.03

[OTHER] This report prepared by Spectrum Lighting, scaled from 55L

[_CRI] 85+

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1675
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	93
Total Luminaire Watts	18
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.14
Basic Luminous Shape	Circular
Luminous Length (0-180)	1.17 ft (Diameter)
Luminous Width (90-270)	1.17 ft (Diameter)
Luminous Height	0.00 ft

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00732 ~ SP1414GV-27L35KEX-TF2-MWI.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3976	3936	3808
55	2823	2777	2670
65	2531	2525	2447
75	2019	2047	1998
85	653	811	764

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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	978.435	978.435	978.435	978.435	978.435	978.435	978.435	978.435	978.435	978.435
2.5	982.819	982.092	981.362	981.687	978.439	971.026	969.516	969.684	971.377	972.042
5.0	983.900	983.431	981.375	979.104	973.680	964.228	962.035	961.175	962.686	963.982
7.5	980.884	980.335	976.989	973.299	966.156	954.990	952.346	950.942	952.109	954.177
10.0	972.593	974.748	969.365	964.600	956.297	943.660	942.040	939.734	940.522	941.306
12.5	959.025	961.953	956.191	952.240	944.552	930.207	928.350	925.194	925.968	925.497
15.0	942.286	945.965	940.735	937.222	929.277	915.123	913.974	909.832	910.144	908.126
17.5	922.946	925.840	922.098	919.609	911.672	898.699	895.955	892.344	892.961	889.510
20.0	901.584	904.305	902.053	900.438	892.961	880.616	877.441	874.101	875.330	870.222
22.5	878.884	882.465	880.403	879.914	873.659	861.403	858.251	854.339	855.538	850.502
25.0	857.480	860.545	858.872	858.747	854.168	840.961	839.012	833.672	835.211	830.190
27.5	836.771	837.917	837.455	837.155	834.596	819.850	816.023	811.513	812.043	809.575
30.0	807.992	815.159	808.137	815.406	805.534	785.671	791.975	778.758	788.379	774.521
32.5	775.757	769.590	772.829	769.976	773.305	745.896	738.087	731.966	731.214	733.491
35.0	691.446	721.293	695.145	717.705	685.978	650.157	677.695	648.041	670.484	636.727
37.5	590.039	600.778	591.247	602.000	585.100	535.336	546.787	524.337	542.444	522.358
40.0	470.394	475.843	474.312	473.173	460.695	418.749	420.515	411.051	410.914	410.222
42.5	346.145	373.215	350.972	369.898	332.310	301.715	325.255	307.066	324.770	298.614
45.0	281.061	273.545	278.251	270.183	269.183	245.767	241.178	241.156	241.599	245.892
47.5	226.325	235.457	225.597	229.210	213.236	200.502	207.116	202.696	209.692	202.897
50.0	199.749	199.115	196.205	192.870	188.753	178.252	177.198	176.990	179.338	180.633
52.5	176.169	179.740	173.808	174.144	165.865	158.651	160.739	158.767	162.887	160.397
55.0	161.901	161.377	159.234	155.984	153.088	146.887	145.973	145.825	147.345	148.176
57.5	148.130	148.928	146.359	144.524	140.350	135.540	135.539	135.376	136.832	136.290
60.0	134.884	136.239	133.497	132.928	128.290	123.940	124.755	123.974	125.993	124.613
62.5	121.562	122.561	120.637	119.723	116.158	112.287	113.270	112.224	113.897	112.822
65.0	106.954	108.739	106.704	106.519	103.411	99.584	101.211	99.703	101.424	99.298
67.5	92.513	94.495	92.699	93.320	90.647	86.833	88.272	86.970	87.893	85.815
70.0	78.972	80.622	79.207	79.937	77.825	73.822	75.453	74.469	74.806	72.529
72.5	65.532	67.268	65.889	66.147	64.852	61.127	62.738	61.839	62.324	59.883
75.0	52.234	54.164	52.968	53.596	51.704	48.875	50.078	48.553	49.594	48.108
77.5	39.769	41.117	40.254	41.557	39.381	36.040	37.492	35.800	36.834	34.970
80.0	27.572	28.004	28.090	28.933	27.401	23.515	25.069	23.621	24.202	22.857
82.5	15.680	16.883	16.900	16.891	16.173	12.432	13.494	12.441	13.156	12.339
85.0	5.692	6.908	7.069	7.350	6.655	4.586	4.028	4.020	4.503	3.907
87.5	1.149	1.420	1.307	1.277	1.243	0.808	0.776	0.812	0.893	0.515
90.0	0.503	0.148	0.354	0.253	0.309	0.298	0.190	0.408	0.175	0.393
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	978.435	978.435	978.435	978.435	978.435	978.435	978.435
2.5	974.053	977.511	979.093	977.609	979.775	981.500	982.819
5.0	967.617	970.579	975.032	977.279	980.788	984.535	983.900
7.5	957.266	961.105	967.286	972.097	975.906	979.069	980.884
10.0	945.827	947.869	957.060	964.352	967.490	972.909	972.593
12.5	930.231	932.370	941.629	950.438	953.017	958.501	959.025
15.0	913.815	914.634	923.399	933.969	936.544	943.697	942.286
17.5	893.980	895.831	903.671	914.454	917.325	922.861	922.946
20.0	873.697	875.263	883.299	893.937	897.563	902.020	901.584
22.5	853.181	854.017	861.729	873.497	877.188	881.118	878.884
25.0	832.648	832.926	839.756	853.076	857.156	860.272	857.480
27.5	810.403	811.879	816.995	831.994	837.441	839.837	836.771
30.0	787.019	779.628	794.038	810.800	810.433	816.330	807.992
32.5	729.663	745.050	740.723	767.410	777.973	778.229	775.757
35.0	666.257	644.936	682.073	721.658	700.917	722.462	691.446
37.5	537.272	535.346	558.809	600.879	596.275	605.160	590.039
40.0	413.704	419.196	428.339	476.812	478.343	488.709	470.394
42.5	324.220	302.525	340.280	373.934	353.881	374.531	346.145
45.0	245.037	254.178	254.342	274.633	282.697	283.055	281.061
47.5	211.929	208.165	221.850	237.012	231.903	238.754	226.325
50.0	182.743	186.551	190.246	201.392	202.323	203.316	199.749
52.5	166.296	165.657	173.254	182.375	179.122	182.713	176.169
55.0	151.023	153.359	156.745	164.307	163.850	164.982	161.901
57.5	138.649	140.958	144.424	151.351	150.300	151.164	148.130
60.0	126.357	127.844	131.903	138.102	135.894	137.252	134.884
62.5	114.226	114.643	118.248	123.717	121.364	123.235	121.562
65.0	101.591	101.029	104.483	109.209	107.230	109.083	106.954

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CANDELA TABULATION - (Cont.)

67.5	88.182	87.427	90.313	94.365	93.135	94.814	92.513
70.0	74.959	73.859	76.358	80.197	79.145	80.723	78.972
72.5	61.892	60.737	62.755	66.937	65.335	66.721	65.532
75.0	49.135	48.020	49.275	53.304	51.929	53.553	52.234
77.5	36.311	34.613	36.113	39.831	39.038	40.518	39.769
80.0	23.376	22.312	23.805	27.079	27.033	27.854	27.572
82.5	11.767	11.654	12.600	16.122	16.127	16.597	15.680
85.0	3.346	3.820	3.335	5.611	6.065	6.033	5.692
87.5	0.749	0.767	0.709	1.143	1.156	1.383	1.149
90.0	0.151	0.400	0.433	0.240	0.408	0.138	0.503
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	353.41	N.A.	21.10
0-30	743.56	N.A.	44.40
0-40	1151.77	N.A.	68.80
0-60	1509.31	N.A.	90.10
0-80	1666.00	N.A.	99.50
0-90	1675.14	N.A.	100.00
10-90	1582.79	N.A.	94.50
20-40	798.36	N.A.	47.70
20-50	1015.56	N.A.	60.60
40-70	460.40	N.A.	27.50
60-80	156.69	N.A.	9.40
70-80	53.83	N.A.	3.20
80-90	9.14	N.A.	0.50
90-110	0.04	N.A.	0.00
90-120	0.04	N.A.	0.00
90-130	0.04	N.A.	0.00
90-150	0.04	N.A.	0.00
90-180	0.04	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	1675.18	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	92.34
10-20	261.06
20-30	390.15
30-40	408.22
40-50	217.20
50-60	140.34
60-70	102.86
70-80	53.83
80-90	9.14
90-100	0.04
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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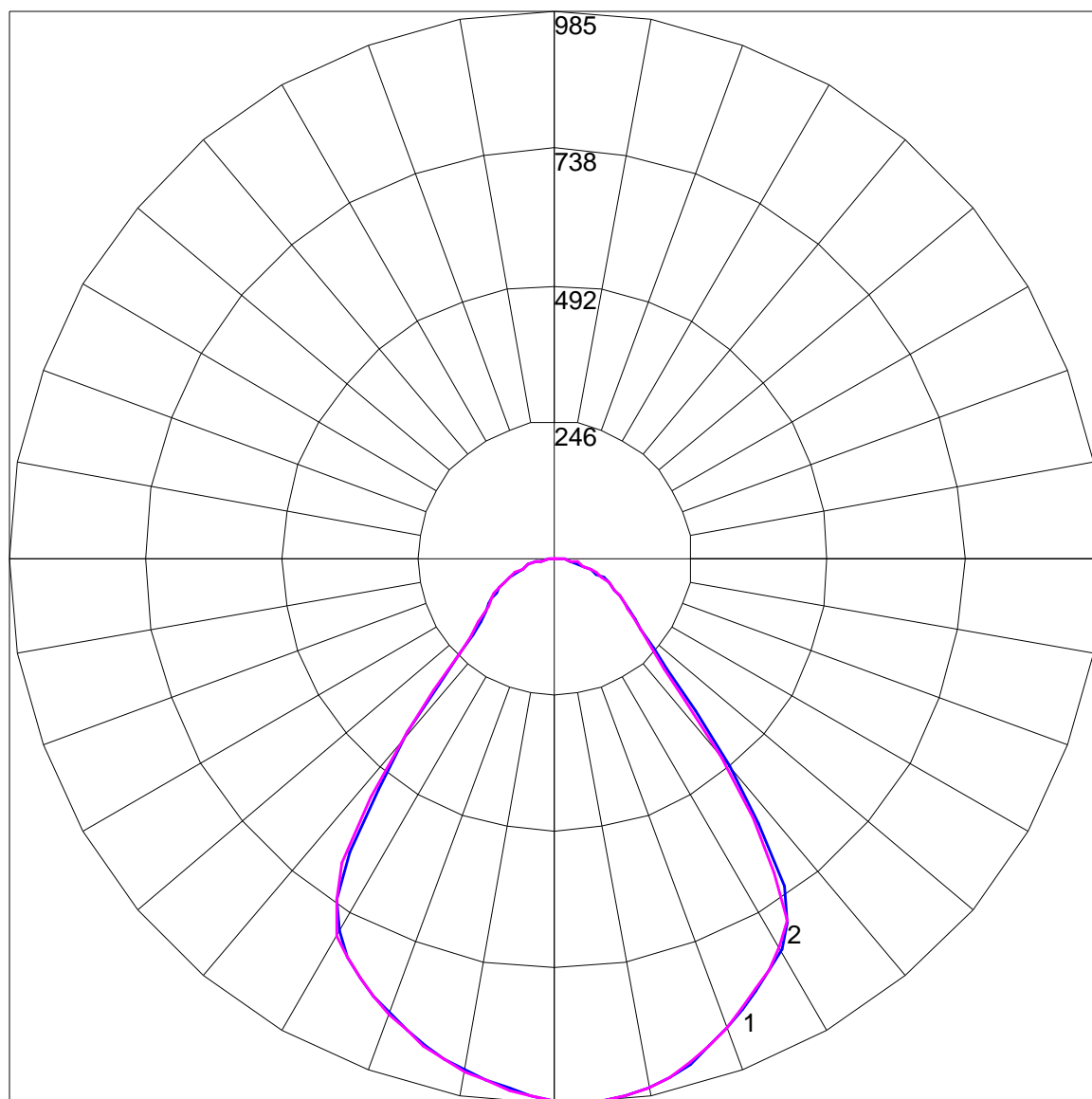
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	109	105	102	99	101	99	96	97	95	93	94	92	91	89
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78
3	96	87	81	75	94	86	80	75	83	78	74	80	76	72	78	74	71	69
4	89	79	72	67	87	78	71	66	76	70	65	74	69	64	72	67	64	62
5	83	73	65	59	81	71	64	59	70	63	59	68	62	58	66	61	57	56
6	78	67	59	53	76	66	58	53	64	58	53	62	57	52	61	56	52	50
7	73	61	54	48	71	61	53	48	59	53	48	58	52	48	57	51	47	46
8	69	57	49	44	67	56	49	44	55	48	44	54	48	44	53	47	43	42
9	65	53	45	41	63	52	45	40	51	45	40	50	44	40	49	44	40	38
10	61	49	42	37	60	49	42	37	48	41	37	47	41	37	46	41	37	35

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PHOTOMETRIC FILENAME : SP-00732 ~ SP1414GV-27L35KEX-TF2-MWI.IES

POLAR GRAPH



Maximum Candela = 984.535 Located At Horizontal Angle = 337.5, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (337.5 - 157.5) (Through Max. Cd.)
2 - Vertical Plane Through Horizontal Angles (0 - 180)