

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : SP-00656\_3 ~ C0816ADJUXT-13LXWGL-13LXW-XXK-EX-TSG-SO (UP\_DOWN).IES**
**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] SP-00656\_3\_M-13L  
 [TESTLAB] Photopia 2015.1.1 see: [www.ltioptics.com/ies](http://www.ltioptics.com/ies)  
 [TESTDATE] Thu Aug 11 2016  
 [MANUFAC] Spectrum Lighting  
 [ISSUEDATE]  
 [UPDATE] 4/5/2018  
 [LUMCAT] C0816ADJUXT-13L-XW-GL-13L-XW-xxK-EX-TSG-GL-xxx (Up/Down)  
 [LUMINAIRE] 8" Diam. x 16" H, Direct/Indirect Cylinder, Wall Mounted  
 [OTHER] Uplight: Xtra Wide Beam, Flush Clear Glass lens  
 [OTHER] Uplight: 63 Degree Beam Angle  
 [OTHER] Downlight: Xtra Wide Beam, Flush Clear Glass lens  
 [OTHER] Downlight: 60.1 Degree Beam Angle  
 [OTHER] Trim: Semi-diffuse clear anodized alum.  
 [LAMP] N/A  
 [LAMPCAT] N/A, 19mm LES indirect  
 [OTHER] N/A, 19mm LES direct  
 [OTHER] Total Luminaire Watts is approximate  
 [OTHER] LEDXT lumen output is the same for all available CCT's  
 [OTHER] See Catalog cut sheet for different source lumen multipliers  
 [OTHER] This report prepared by Spectrum Lighting

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2243
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	86
Total Luminaire Watts	26
Ballast Factor	1.00
CIE Type	General Diffuse
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
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

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Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3990	3982	4040
55	757	751	746
65	62	74	72
75	7	7	5
85	5	2	5

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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>
0.0	1139.788	1139.788	1139.788	1139.788	1139.788
2.5	1148.244	1142.082	1149.414	1143.005	1142.245
5.0	1156.701	1144.370	1159.041	1146.223	1144.695
7.5	1141.257	1134.705	1145.352	1137.396	1144.045
10.0	1125.813	1125.039	1131.663	1128.569	1143.395
12.5	1076.374	1076.250	1077.427	1073.871	1086.735
15.0	1026.935	1027.455	1023.191	1019.174	1030.068
17.5	946.016	951.041	946.588	947.225	948.876
20.0	865.098	874.627	869.986	875.270	867.678
22.5	791.667	796.679	796.172	799.857	794.228
25.0	718.230	718.731	722.358	724.444	720.778
27.5	650.539	647.465	651.189	651.761	648.342
30.0	582.848	576.199	580.014	579.078	575.906
32.5	504.699	501.117	504.842	505.557	503.490
35.0	426.549	426.036	429.663	432.035	431.067
37.5	342.764	342.049	343.427	345.098	344.311
40.0	258.973	258.063	257.192	258.160	257.556
42.5	169.734	168.818	168.759	169.825	169.526
45.0	80.496	79.566	80.327	81.490	81.497
47.5	52.474	51.486	51.980	52.578	52.780
50.0	24.453	23.406	23.634	23.666	24.056
52.5	18.427	17.927	17.966	17.829	18.128
55.0	12.395	12.441	12.291	11.986	12.200
57.5	8.775	8.716	8.593	8.365	8.651
60.0	5.148	4.985	4.888	4.738	5.096
62.5	2.951	2.899	2.892	2.762	2.983
65.0	0.747	0.806	0.890	0.786	0.864
67.5	0.403	0.448	0.494	0.435	0.474
70.0	0.058	0.084	0.097	0.084	0.078
72.5	0.058	0.065	0.078	0.065	0.058
75.0	0.052	0.039	0.052	0.039	0.039
77.5	0.039	0.039	0.039	0.032	0.039
80.0	0.019	0.032	0.019	0.026	0.032
82.5	0.019	0.026	0.013	0.019	0.026
85.0	0.013	0.013	0.006	0.013	0.013
87.5	0.006	0.006	0.006	0.006	0.013
90.0	0.000	0.000	0.000	0.000	0.006
92.5	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000
102.5	0.013	0.013	0.006	0.006	0.026
105.0	0.026	0.019	0.006	0.013	0.045
107.5	0.572	0.624	0.572	0.617	0.676
110.0	1.111	1.228	1.131	1.222	1.300
112.5	1.495	1.592	1.514	1.449	1.521
115.0	1.872	1.950	1.898	1.670	1.742
117.5	2.873	2.892	2.866	2.840	2.710
120.0	3.874	3.835	3.828	4.004	3.679
122.5	4.875	4.927	4.810	5.018	4.888
125.0	5.869	6.019	5.785	6.032	6.097

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127.5	21.495	22.015	21.859	21.554	21.996
130.0	37.121	38.005	37.927	37.069	37.895
132.5	103.116	103.434	103.363	101.764	103.987
135.0	169.110	168.863	168.792	166.458	170.072
137.5	239.804	238.680	239.791	237.185	238.888
140.0	310.498	308.490	310.784	307.905	307.703
142.5	378.930	378.976	380.861	377.689	377.552
145.0	447.356	449.455	450.931	447.473	447.401
147.5	504.413	507.357	507.065	505.134	506.226
150.0	561.470	565.253	563.192	562.789	565.045
152.5	629.265	629.902	628.101	628.959	632.560
155.0	697.053	694.544	693.004	695.129	700.069
157.5	775.859	775.827	776.100	780.468	775.885
160.0	854.659	857.109	859.189	865.806	851.701
162.5	975.240	974.181	977.125	978.685	972.777
165.0	1095.822	1091.246	1095.061	1091.564	1093.846
167.5	1170.494	1179.574	1178.125	1175.908	1166.392
170.0	1245.166	1267.903	1261.188	1260.252	1238.939
172.5	1274.656	1284.244	1282.034	1282.079	1264.282
175.0	1304.140	1300.585	1302.879	1303.906	1289.626
177.5	1286.428	1284.647	1285.797	1286.311	1279.167
180.0	1268.150	1268.150	1268.150	1268.150	1268.150

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Zone	Lumens	%Lamp	%Fixt
0-20	392.24	N.A.	17.50
0-30	723.01	N.A.	32.20
0-40	985.27	N.A.	43.90
0-60	1080.29	N.A.	48.20
0-80	1081.97	N.A.	48.20
0-90	1081.98	N.A.	48.20
10-90	973.07	N.A.	43.40
20-40	593.02	N.A.	26.40
20-50	676.28	N.A.	30.10
40-70	96.65	N.A.	4.30
60-80	1.68	N.A.	0.10
70-80	0.05	N.A.	0.00
80-90	0.01	N.A.	0.00
90-110	0.32	N.A.	0.00
90-120	2.47	N.A.	0.10
90-130	14.16	N.A.	0.60
90-150	418.54	N.A.	18.70
90-180	1161.47	N.A.	51.80
110-180	1161.15	N.A.	51.80
0-180	2243.45	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	108.91
10-20	283.33
20-30	330.77
30-40	262.25
40-50	83.26
50-60	11.77
60-70	1.62
70-80	0.05
80-90	0.01
90-100	0.00
100-110	0.32
110-120	2.15
120-130	11.68
130-140	129.47
140-150	274.91
150-160	321.52
160-170	299.18
170-180	122.23

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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

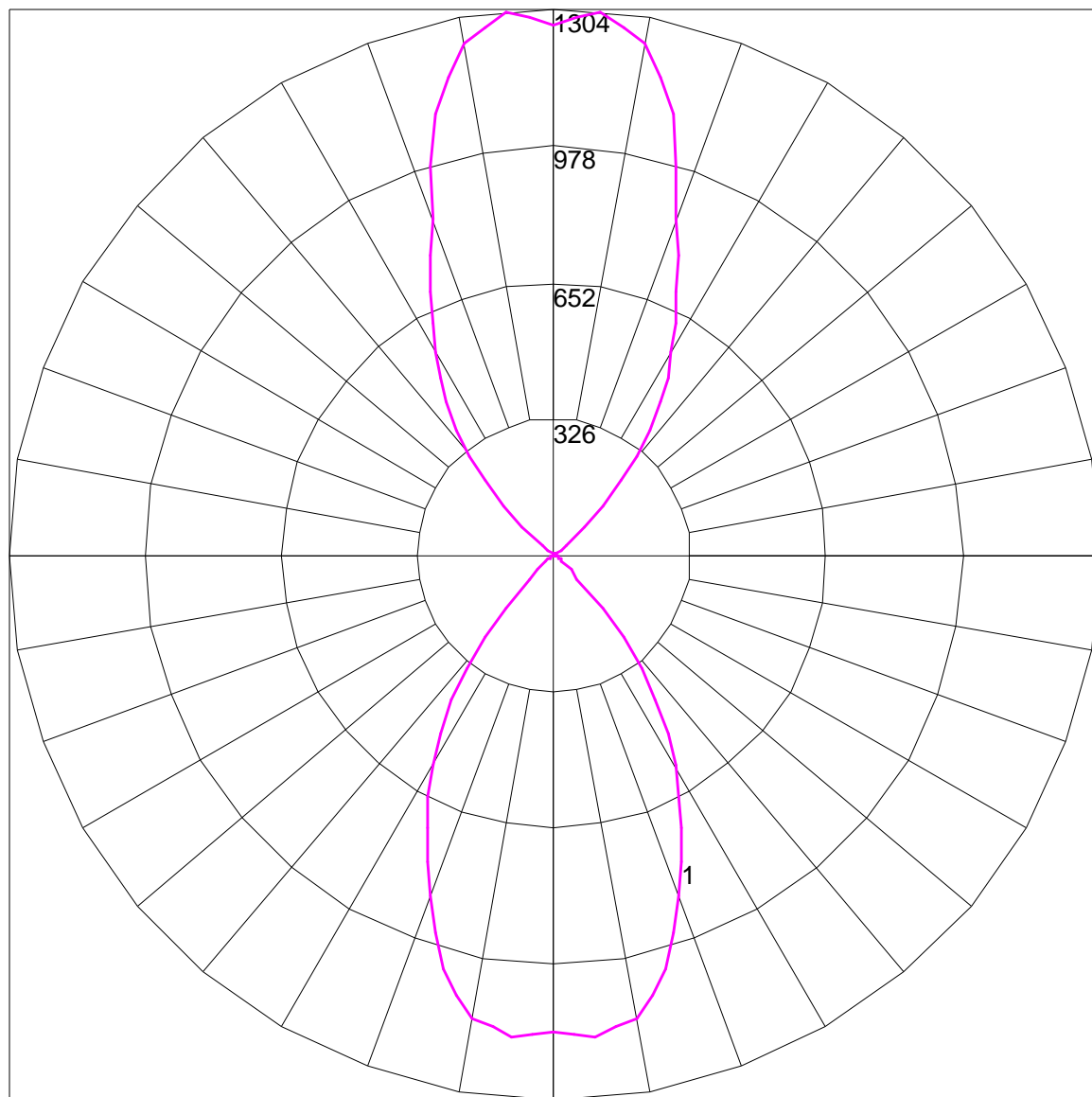
Effective Floor Cavity Reflectance 0.20

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	107	107	107	107	98	98	98	98	82	82	82	68	68	68	55	55	55	48
1	100	96	93	90	92	89	86	84	75	74	72	63	62	61	52	51	50	45
2	93	87	82	78	86	81	77	73	69	66	64	58	56	55	48	47	46	42
3	86	79	73	68	80	73	68	64	63	60	57	54	52	50	45	44	43	39
4	81	72	65	60	75	67	62	57	58	54	51	50	47	45	43	41	39	36
5	75	66	59	54	70	62	56	51	54	50	46	47	44	41	40	38	36	33
6	70	60	54	49	65	57	51	46	50	45	42	44	40	38	38	35	34	31
7	66	56	49	44	61	52	46	42	46	42	39	41	37	35	35	33	31	29
8	62	51	45	40	58	49	43	39	43	39	35	38	35	32	33	31	29	27
9	58	48	41	37	54	45	39	36	40	36	33	36	32	30	31	29	27	25
10	55	44	38	34	51	42	37	33	38	33	30	34	30	28	30	27	26	24

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## POLAR GRAPH



Maximum Candela = 1304.14 Located At Horizontal Angle = 0, Vertical Angle = 175  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)