

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00616\_14 ~ C0808XT-13LXXK-XNEX-TCY-NLXXMW.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] SP-00616\_14\_M-13L  
[TESTLAB] VLS-245-981  
[MANUFAC] Spectrum Lighting  
[ISSUEDATE] 9/20/2017  
[UPDATE] 3/9/2018  
[LUMCAT] C0808XT-13L-xxK-XN-EX-TCY-NL  
[LUMINAIRE] Nom. 8" Diam. x 8" H. Accent Biaxial Adjustable Downlight Cylinder  
[OTHER] Internal Reflector, Xtra Narrow Beam  
[OTHER] No Lens  
[OTHER] 16.0 Degree Beam Angle  
[OTHER] Aimed at 0 Degrees  
[LAMPCAT] N/A, 19mm LES  
[LAMP] N/A, 83 CRI  
[OTHER] Total Luminaire Watts is approximate  
[OTHER] LEDXT lumen output is the same for all available CCT's  
[OTHER] This report prepared by Spectrum Lighting, scaled from 20L

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1184
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	64
Total Luminaire Watts	18.4
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.28
Spacing Criterion (90-270)	0.30
Spacing Criterion (Diagonal)	0.30
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.44 ft (Diameter)
Luminous Width (90-270)	0.44 ft (Diameter)
Luminous Height	0.00 ft

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00616\_14 ~ C0808XT-13LXXK-XNEX-TCY-NLXXMW.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	13753	12118	13319
55	2821	3104	5845
65	1026	826	1133
75	658	1018	1325
85	1484	1915	2096

# IES INDOOR REPORT

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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	5160.232	5160.232	5160.232	5160.232	5160.232	5160.232	5160.232	5160.232	5160.232	5160.232
5	4032.031	4153.056	4212.528	4055.554	4155.991	4055.889	4062.293	4106.442	4109.519	4109.173
10	1503.163	1476.745	1604.847	1503.131	1725.376	1835.807	1801.877	1690.228	1663.000	1572.665
15	623.464	585.881	589.172	615.662	623.297	639.425	619.660	593.181	592.527	580.727
20	485.761	483.819	483.361	481.500	494.693	483.551	479.507	477.604	478.592	476.746
25	458.271	458.740	455.075	450.402	461.478	447.481	448.328	451.295	450.140	444.524
30	449.402	444.841	438.394	425.839	435.463	422.821	427.585	428.107	430.212	433.712
35	412.890	411.391	407.773	405.833	406.697	396.468	397.805	400.033	402.272	406.097
40	288.714	307.307	313.830	286.304	314.659	287.853	292.513	300.857	304.695	298.813
45	138.758	130.935	122.259	144.619	134.376	127.684	121.614	110.926	111.810	115.159
50	124.617	134.561	125.078	136.223	121.920	115.280	118.260	112.834	125.827	130.670
55	23.087	19.277	25.402	18.149	47.839	61.557	64.529	57.403	57.865	52.317
60	7.137	5.871	7.051	6.804	9.006	9.800	9.638	10.842	11.552	10.549
65	6.186	5.487	4.978	5.889	6.835	8.507	8.139	9.161	8.997	9.084
70	4.310	4.618	3.455	4.005	6.318	7.247	7.675	8.126	7.038	8.469
75	2.429	4.257	3.760	4.348	4.893	7.067	8.609	9.482	7.993	9.006
80	3.724	2.678	2.473	2.203	3.665	7.895	7.041	7.533	7.933	8.298
85	1.845	1.546	2.381	2.431	2.607	6.220	6.458	7.709	7.458	6.817
90	0.000	0.000	0.000	0.000	0.000	4.597	4.767	4.573	4.218	4.496
95	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180	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	5160.232	5160.232	5160.232	5160.232	5160.232	5160.232	5160.232
5	3997.211	4095.473	3878.824	3812.647	3833.986	3941.228	4032.031
10	1558.758	1630.114	1560.197	1660.724	1603.304	1520.553	1503.163
15	624.748	592.894	654.838	651.212	649.578	633.684	623.464
20	477.736	481.697	494.307	488.179	485.586	488.075	485.761
25	447.595	450.352	458.513	453.517	453.922	456.533	458.271
30	433.769	428.903	439.319	434.388	438.901	442.976	449.402
35	404.303	400.709	409.892	405.003	407.625	408.182	412.890
40	277.505	301.510	273.137	254.695	260.694	279.261	288.714
45	130.868	111.535	141.177	145.558	150.728	143.892	138.758

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50	135.218	130.081	139.824	123.214	124.949	129.692	124.617
55	40.382	51.802	43.680	49.040	39.321	28.026	23.087
60	13.279	11.527	15.112	9.236	7.237	8.438	7.137
65	10.480	8.929	10.447	4.739	6.229	6.707	6.186
70	9.381	7.885	9.649	5.269	3.869	4.191	4.310
75	8.560	8.333	8.819	3.063	3.381	3.070	2.429
80	7.728	7.320	10.484	4.414	3.671	2.251	3.724
85	6.516	6.043	7.981	1.976	2.427	1.633	1.845
90	3.775	5.096	5.526	0.000	0.000	0.000	0.000
95	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	535.72	N.A.	45.30
0-30	746.28	N.A.	63.00
0-40	985.97	N.A.	83.30
0-60	1164.52	N.A.	98.40
0-80	1178.56	N.A.	99.60
0-90	1183.17	N.A.	99.90
10-90	870.81	N.A.	73.60
20-40	450.25	N.A.	38.00
20-50	579.97	N.A.	49.00
40-70	186.23	N.A.	15.70
60-80	14.04	N.A.	1.20
70-80	6.36	N.A.	0.50
80-90	4.61	N.A.	0.40
90-110	0.63	N.A.	0.10
90-120	0.63	N.A.	0.10
90-130	0.63	N.A.	0.10
90-150	0.63	N.A.	0.10
90-180	0.63	N.A.	0.10
110-180	0.00	N.A.	0.00
0-180	1183.8	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	312.36
10-20	223.36
20-30	210.56
30-40	239.68
40-50	129.72
50-60	48.83
60-70	7.68
70-80	6.36
80-90	4.61
90-100	0.63
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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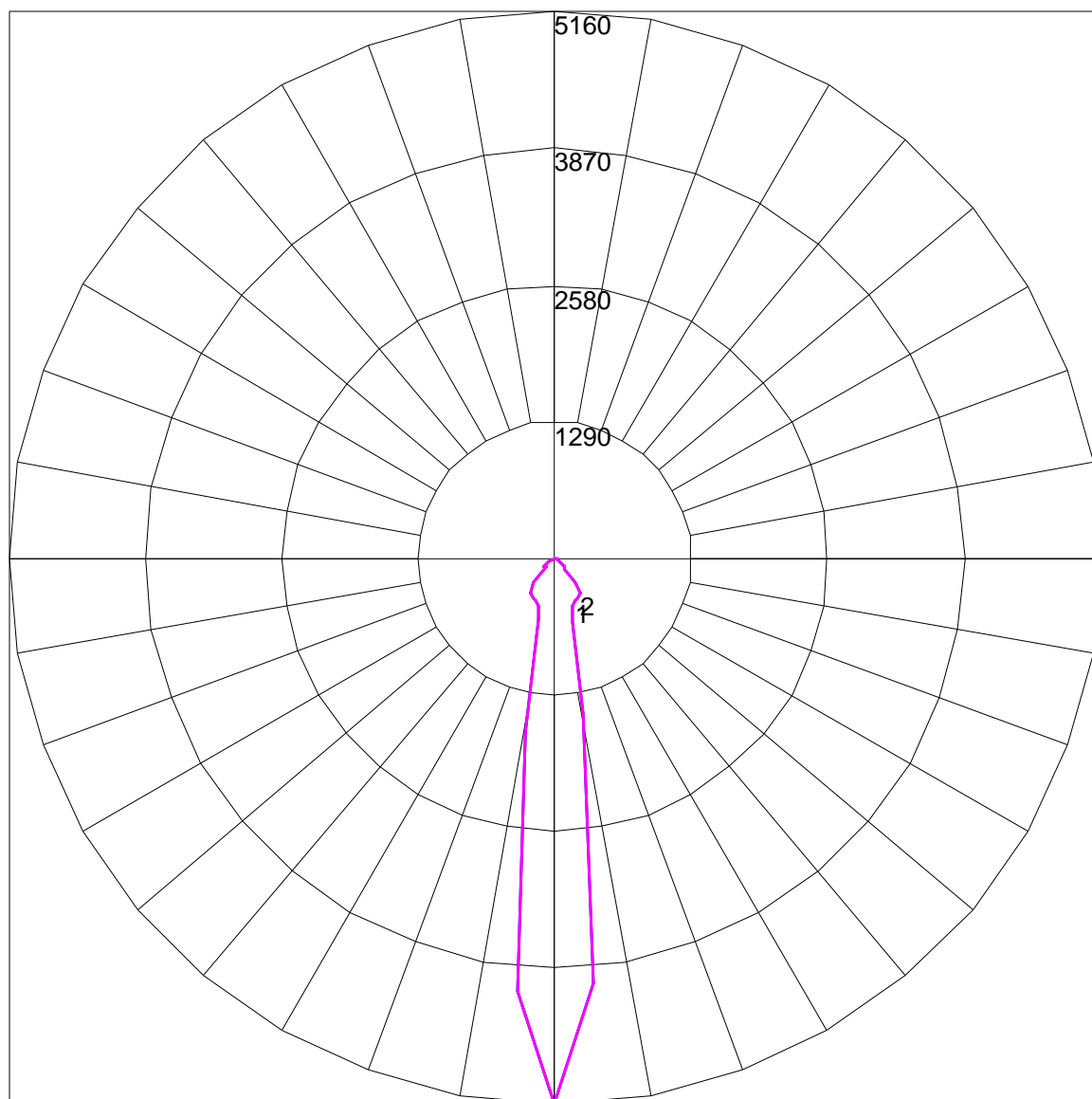
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	113	111	108	106	111	108	106	104	104	102	101	101	99	98	97	96	95	93
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	87
3	102	96	91	87	100	95	90	86	92	88	85	89	86	84	87	85	82	81
4	97	90	84	80	96	89	84	80	87	82	79	85	81	78	83	79	77	75
5	93	84	79	74	91	83	78	74	82	77	73	80	76	73	78	75	72	71
6	88	80	74	70	87	79	73	69	77	73	69	76	72	68	75	71	68	67
7	84	75	70	65	83	75	69	65	73	69	65	72	68	65	71	67	64	63
8	81	72	66	62	80	71	66	62	70	65	62	69	65	61	68	64	61	60
9	78	68	63	59	76	68	62	59	67	62	59	66	62	58	65	61	58	57
10	75	65	60	56	74	65	60	56	64	59	56	63	59	56	63	59	56	54

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POLAR GRAPH



Maximum Candela = 5160.232 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Vertical Plane Through Horizontal Angles (0 - 180)