

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : SP-00616\_5 ~ C0808XT-13LXXK-NDEX-TCY-GLXXMW.IES**
**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] SP-00616\_5\_M-13L  
 [TESTLAB] VLS-245-981  
 [MANUFAC] Spectrum Lighting  
 [ISSUE DATE] 9/20/2017  
 [UPDATE] 3/9/2018  
 [LUMCAT] C0808XT-13L-xxK-ND-EX-TCY-GL  
 [LUMINAIRE] Nom. 8" Diam. x 8" H. Accent Biaxial Adjustable Downlight Cylinder  
 [OTHER] Internal Reflector, Medium Beam  
 [OTHER] Clear Glass Lens, Flush with Lower Trim  
 [OTHER] 20.3 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 30L

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1211
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	93
Total Luminaire Watts	13
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.36
Spacing Criterion (90-270)	0.36
Spacing Criterion (Diagonal)	0.38
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\_5 ~ C0808XT-13LXXK-NDEX-TCY-GLXXMW.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	16822	17838	16560
55	9187	9001	9199
65	1573	1809	1812
75	2595	2397	2150
85	1952	2535	2585

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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	3616.424	3616.424	3616.424	3616.424	3616.424	3616.424	3616.424	3616.424	3616.424	3616.424
5	3116.372	3206.600	3157.649	3196.620	3110.917	3020.675	3036.532	2896.750	2938.531	2844.560
10	1931.532	2048.142	1978.534	2033.824	1906.702	1806.381	1811.126	1659.499	1698.641	1595.154
15	982.513	1053.102	1003.169	1031.255	944.703	887.588	882.077	802.539	818.659	768.030
20	576.454	599.347	577.337	583.636	545.856	530.550	527.717	510.015	513.324	503.047
25	478.387	483.499	476.214	473.713	461.560	455.518	457.006	457.347	459.219	460.351
30	447.335	451.308	446.257	443.167	435.017	429.614	431.223	429.840	433.112	430.886
35	404.181	411.044	405.337	405.367	396.343	387.743	386.883	374.387	375.717	362.759
40	296.296	314.812	307.993	311.955	292.559	269.861	266.241	238.815	237.067	219.013
45	169.725	179.349	179.971	173.875	167.074	148.324	146.354	132.251	127.151	119.776
50	120.881	122.084	119.507	119.529	115.986	114.521	116.803	112.871	106.039	103.554
55	75.185	78.545	73.660	78.566	75.281	72.235	79.752	73.667	74.233	66.970
60	23.602	25.616	24.384	26.047	25.537	24.289	28.278	25.966	27.698	25.365
65	9.485	10.013	10.909	10.268	10.927	12.617	15.225	13.978	14.735	13.215
70	9.227	10.954	9.356	8.880	9.471	11.646	12.064	14.157	13.417	14.662
75	9.583	7.357	8.853	7.939	7.940	12.272	13.964	13.446	14.974	13.258
80	5.150	6.846	6.372	6.413	6.353	12.119	10.555	11.516	12.280	11.187
85	2.427	2.953	3.152	3.514	3.215	8.537	6.644	6.715	7.464	6.999
90	1.034	0.302	0.801	0.368	0.553	3.849	1.808	4.542	1.757	5.212
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. 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	3616.424	3616.424	3616.424	3616.424	3616.424	3616.424	3616.424
5	2909.745	2844.039	2929.916	3036.629	3018.392	3143.749	3116.372
10	1667.966	1605.293	1705.348	1823.489	1813.153	1960.222	1931.532
15	803.190	775.769	831.933	904.935	909.561	998.107	982.513
20	515.146	506.511	526.570	546.124	550.414	581.996	576.454
25	463.894	462.373	465.818	471.920	471.896	478.811	478.387
30	435.493	432.585	438.331	444.444	444.652	449.434	447.335
35	373.115	363.745	383.225	391.478	393.276	405.943	404.181
40	227.816	222.202	238.611	260.626	266.049	295.135	296.296
45	126.842	127.016	127.899	143.525	147.927	165.988	169.725

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<b>50</b>	111.060	109.177	116.158	112.905	115.598	120.811	120.881
<b>55</b>	72.666	66.466	72.657	73.889	71.361	77.383	75.185
<b>60</b>	24.863	23.652	21.766	24.611	22.096	24.645	23.602
<b>65</b>	13.039	14.297	11.552	10.346	11.570	10.551	9.485
<b>70</b>	12.348	12.869	12.434	7.203	7.668	7.955	9.227
<b>75</b>	13.093	13.498	12.575	8.570	9.531	8.635	9.583
<b>80</b>	11.615	11.514	11.853	5.775	6.094	5.557	5.150
<b>85</b>	6.590	6.505	7.924	1.845	2.292	2.631	2.427
<b>90</b>	1.982	3.739	3.893	0.558	0.605	0.231	1.034
<b>95</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>100</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>105</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>110</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>115</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>120</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>125</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>130</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>135</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>140</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>145</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>150</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>155</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>160</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>165</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>170</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>175</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>180</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	532.57	N.A.	44.00
0-30	753.27	N.A.	62.20
0-40	984.49	N.A.	81.30
0-60	1178.61	N.A.	97.40
0-80	1204.41	N.A.	99.50
0-90	1210.05	N.A.	100.00
10-90	957.48	N.A.	79.10
20-40	451.92	N.A.	37.30
20-50	582.16	N.A.	48.10
40-70	208.91	N.A.	17.30
60-80	25.80	N.A.	2.10
70-80	11.01	N.A.	0.90
80-90	5.64	N.A.	0.50
90-110	0.53	N.A.	0.00
90-120	0.53	N.A.	0.00
90-130	0.53	N.A.	0.00
90-150	0.53	N.A.	0.00
90-180	0.53	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	1210.58	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	252.57
10-20	280.00
20-30	220.69
30-40	231.23
40-50	130.24
50-60	63.88
60-70	14.79
70-80	11.01
80-90	5.64
90-100	0.53
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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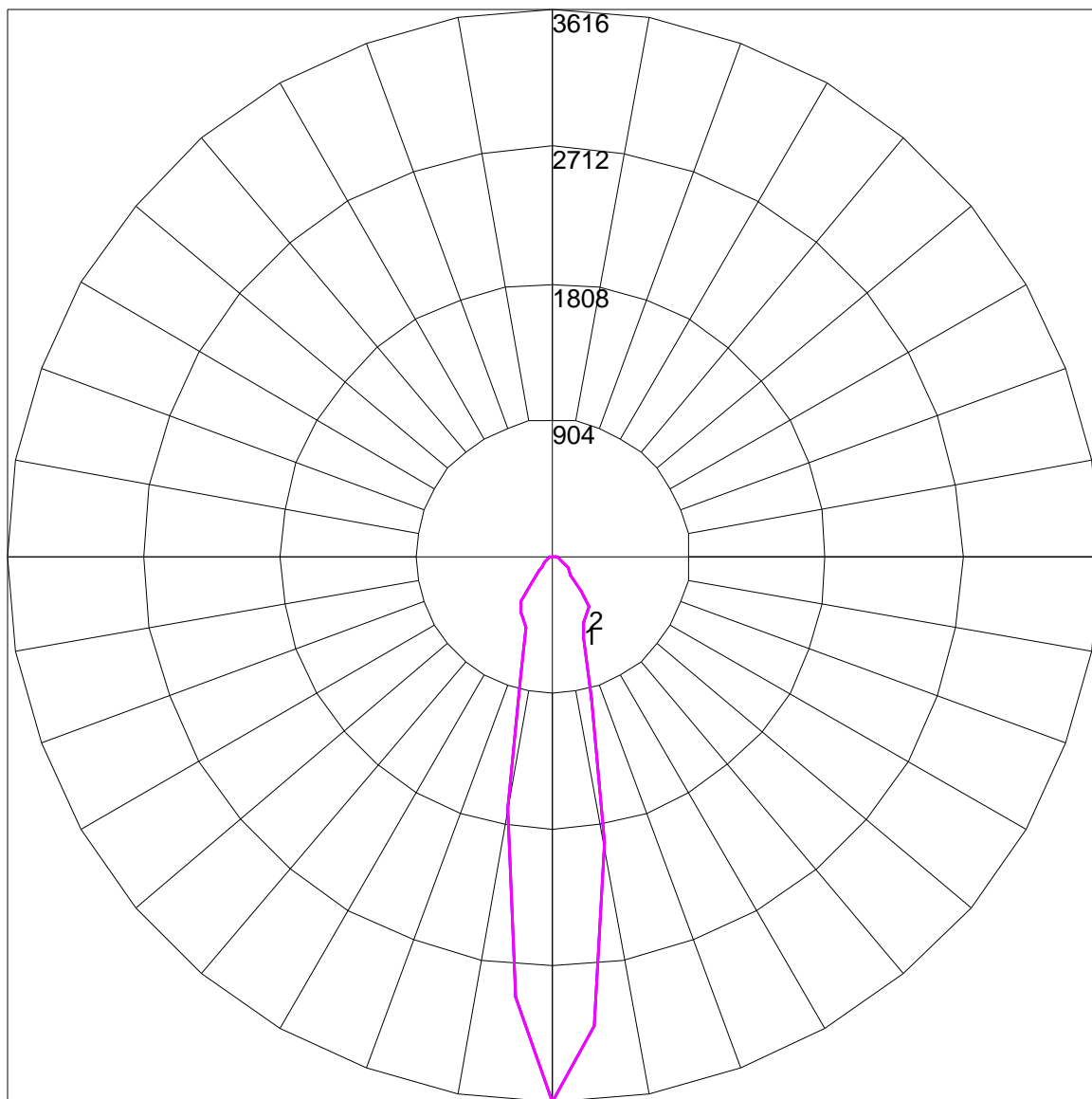
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	92
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85
3	101	95	89	85	99	93	88	85	91	87	83	88	85	82	86	83	81	79
4	96	88	83	78	94	87	82	78	85	80	77	83	79	76	81	78	75	73
5	91	83	77	72	90	82	76	72	80	75	71	78	74	71	77	73	70	69
6	87	78	72	67	85	77	71	67	75	70	67	74	70	66	73	69	66	64
7	83	73	67	63	81	73	67	63	71	66	63	70	66	62	69	65	62	60
8	79	70	64	59	78	69	63	59	68	63	59	67	62	59	66	62	59	57
9	76	66	60	56	75	66	60	56	65	60	56	64	59	56	63	59	56	54
10	73	63	57	53	72	63	57	53	62	57	53	61	56	53	60	56	53	52

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POLAR GRAPH



Maximum Candela = 3616.424 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)