

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00616\_15 ~ C0808XT-13LXXK-XNEX-TCY-SOXXMW.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00616\_15\_M-13L

[TESTLAB] VLS-245-981

[MANUFAC] Spectrum Lighting

[ISSUE DATE] 9/20/2017

[UPDATE] 3/9/2018

[LUMCAT] C0808XT-13L-xxK-XN-EX-TCY-SO

[LUMINAIRE] Nom. 8" Diam. x 8" H. Accent Biaxial Adjustable Downlight Cylinder

[OTHER] Internal Reflector, Xtra Narrow Beam

[OTHER] Solite Lens, Flush with Lower Trim

[OTHER] 22.1 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	1133
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	62
Total Luminaire Watts	18.4
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.38
Spacing Criterion (90-270)	0.38
Spacing Criterion (Diagonal)	0.42
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\_15 ~ C0808XT-13LXXK-XNEX-TCY-SOXXMW.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	14444	15429	15634
55	6661	6234	6627
65	3764	3739	3735
75	2787	2987	3433
85	1825	2647	2064

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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>
<b>0</b>	2928.175	2928.175	2928.175	2928.175	2928.175	2928.175	2928.175	2928.175	2928.175	2928.175
<b>5</b>	2529.038	2490.940	2481.877	2468.580	2470.964	2471.819	2494.008	2473.719	2503.338	2500.795
<b>10</b>	1602.321	1618.406	1616.950	1631.140	1603.269	1601.965	1582.082	1621.212	1621.749	1610.060
<b>15</b>	891.260	922.095	925.003	969.374	922.988	907.058	889.052	944.039	939.091	890.477
<b>20</b>	572.907	589.158	593.850	626.444	590.868	570.853	565.629	603.073	598.368	558.017
<b>25</b>	467.304	474.804	478.451	487.250	465.986	457.420	456.741	467.206	462.591	448.638
<b>30</b>	415.312	420.239	422.584	422.785	414.123	410.301	410.069	404.918	402.902	397.147
<b>35</b>	341.373	346.099	351.747	351.216	346.902	342.672	337.215	336.584	332.375	326.537
<b>40</b>	239.675	247.276	250.704	250.198	249.422	249.377	245.766	242.318	237.277	235.542
<b>45</b>	145.727	155.676	155.669	156.242	157.730	163.366	160.776	156.441	154.501	151.745
<b>50</b>	87.558	91.065	89.407	94.536	93.514	97.519	97.001	98.725	97.622	92.618
<b>55</b>	54.517	53.542	51.022	56.145	54.234	57.551	60.210	60.789	61.430	59.500
<b>60</b>	32.087	34.043	31.624	34.321	34.080	38.872	39.563	38.318	40.613	39.749
<b>65</b>	22.700	23.245	22.547	21.618	22.522	29.392	28.751	28.041	29.364	27.634
<b>70</b>	15.255	16.581	16.199	15.530	16.713	22.461	20.940	22.002	22.184	21.458
<b>75</b>	10.292	10.624	11.029	11.478	12.676	16.293	16.840	16.693	16.682	17.040
<b>80</b>	6.395	5.380	6.235	7.561	6.825	13.348	12.388	14.100	12.759	11.260
<b>85</b>	2.270	2.998	3.292	2.509	2.567	9.287	8.064	8.059	8.669	7.713
<b>90</b>	0.000	0.000	0.000	0.000	0.000	5.679	5.173	4.614	5.301	5.471
<b>95</b>	0.000	0.000	0.000	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	0.000	0.000	0.000
<b>105</b>	0.000	0.000	0.000	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	0.000	0.000	0.000
<b>115</b>	0.000	0.000	0.000	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	0.000	0.000	0.000
<b>125</b>	0.000	0.000	0.000	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	0.000	0.000	0.000
<b>135</b>	0.000	0.000	0.000	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	0.000	0.000	0.000
<b>145</b>	0.000	0.000	0.000	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	0.000	0.000	0.000
<b>155</b>	0.000	0.000	0.000	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	0.000	0.000	0.000
<b>165</b>	0.000	0.000	0.000	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	0.000	0.000	0.000
<b>175</b>	0.000	0.000	0.000	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	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>
<b>0</b>	2928.175	2928.175	2928.175	2928.175	2928.175	2928.175	2928.175
<b>5</b>	2507.066	2516.160	2489.775	2512.219	2561.279	2508.919	2529.038
<b>10</b>	1630.963	1625.603	1623.630	1597.811	1569.290	1630.349	1602.321
<b>15</b>	906.972	904.166	914.171	856.760	823.196	916.891	891.260
<b>20</b>	563.072	568.640	571.221	536.438	524.658	580.384	572.907
<b>25</b>	450.472	454.195	456.037	446.966	450.924	467.716	467.304
<b>30</b>	396.005	399.238	399.532	401.666	408.571	408.953	415.312
<b>35</b>	324.834	325.729	326.481	323.101	327.358	335.425	341.373
<b>40</b>	236.436	233.320	233.330	230.690	233.633	241.470	239.675
<b>45</b>	154.290	145.989	149.898	145.688	151.039	150.981	145.727

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50	93.884	93.241	93.044	85.962	87.066	92.778	87.558
55	60.591	58.350	57.776	52.021	52.148	55.364	54.517
60	39.705	37.359	38.475	34.988	34.111	32.157	32.087
65	27.875	26.748	28.400	24.672	22.568	21.713	22.700
70	21.172	20.496	20.871	15.914	16.543	15.291	15.255
75	15.322	16.743	15.911	11.261	11.129	10.447	10.292
80	12.605	11.545	13.148	5.910	6.143	5.609	6.395
85	7.686	8.222	6.893	2.072	2.289	2.553	2.270
90	5.326	5.186	4.496	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	483.63	N.A.	42.70
0-30	702.64	N.A.	62.00
0-40	908.52	N.A.	80.20
0-60	1085.29	N.A.	95.80
0-80	1126.21	N.A.	99.40
0-90	1132.38	N.A.	99.90
10-90	920.46	N.A.	81.20
20-40	424.89	N.A.	37.50
20-50	547.72	N.A.	48.30
40-70	202.97	N.A.	17.90
60-80	40.92	N.A.	3.60
70-80	14.71	N.A.	1.30
80-90	6.18	N.A.	0.50
90-110	0.71	N.A.	0.10
90-120	0.71	N.A.	0.10
90-130	0.71	N.A.	0.10
90-150	0.71	N.A.	0.10
90-180	0.71	N.A.	0.10
110-180	0.00	N.A.	0.00
0-180	1133.09	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	211.92
10-20	271.71
20-30	219.01
30-40	205.88
40-50	122.82
50-60	53.95
60-70	26.20
70-80	14.71
80-90	6.18
90-100	0.71
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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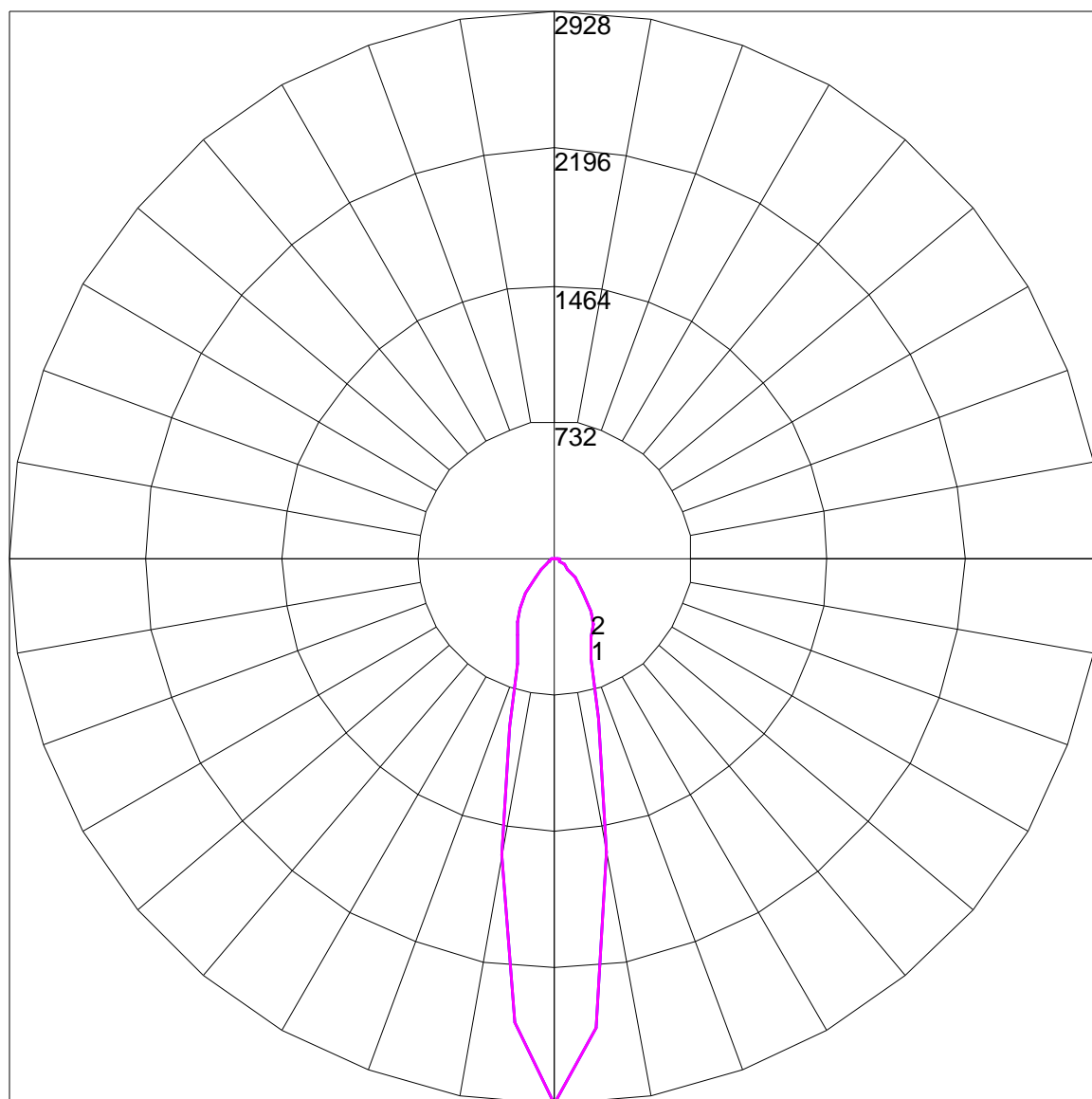
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	110	108	105	103	103	101	100	100	98	97	96	95	94	92
2	107	101	97	93	104	100	96	92	96	93	90	93	91	88	90	88	86	85
3	101	94	89	84	99	93	88	84	90	86	82	87	84	81	85	82	80	78
4	96	88	82	77	94	86	81	77	84	79	76	82	78	75	80	77	74	72
5	91	82	76	71	89	81	75	71	79	74	70	77	73	70	76	72	69	67
6	86	77	71	66	85	76	70	66	75	69	65	73	68	65	72	68	65	63
7	82	72	66	62	81	72	66	62	70	65	61	69	65	61	68	64	61	59
8	78	69	62	58	77	68	62	58	67	62	58	66	61	58	65	60	57	56
9	75	65	59	55	74	64	59	55	64	58	55	63	58	54	62	57	54	53
10	72	62	56	52	71	61	56	52	61	55	52	60	55	52	59	55	52	50

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POLAR GRAPH



Maximum Candela = 2928.175 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)