

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : SP-00616\_13 ~ C0808XT-10LXXK-XNEX-TCY-GLXXMW.IES**
**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] SP-00616\_13\_M-10L  
 [TESTLAB] VLS-245-981  
 [MANUFAC] Spectrum Lighting  
 [ISSUEDATE] 9/20/2017  
 [UPDATE] 3/9/2018  
 [LUMCAT] C0808XT-10L-xxK-XN-EX-TCY-GL  
 [LUMINAIRE] Nom. 8" Diam. x 8" H. Accent Biaxial Adjustable Downlight Cylinder  
 [OTHER] Internal Reflector, Xtra NARrow Beam  
 [OTHER] Clear Glass Lens, Flush with Lower Trim  
 [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	876
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	68
Total Luminaire Watts	12.8
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.28
Spacing Criterion (90-270)	0.28
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\_13 ~ C0808XT-10LXXK-XNEX-TCY-GLXXMW.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	8309	9129	8599
55	6271	5683	7363
65	922	814	1342
75	854	1508	1746
85	1194	1431	1546

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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>	3789.161	3789.161	3789.161	3789.161	3789.161	3789.161	3789.161	3789.161	3789.161	3789.161
<b>5</b>	2904.045	2799.222	2953.391	2844.997	2926.979	2882.191	2920.306	2863.174	2927.580	2918.880
<b>10</b>	1213.227	1281.039	1342.922	1211.026	1259.760	1338.951	1278.842	1358.934	1221.185	1357.778
<b>15</b>	453.684	516.073	466.769	474.428	445.032	475.272	439.220	500.269	434.318	494.281
<b>20</b>	361.491	362.659	357.679	361.882	357.664	350.263	347.572	354.367	354.266	356.501
<b>25</b>	344.526	343.723	341.628	343.049	333.963	328.502	329.412	332.417	334.900	335.838
<b>30</b>	316.165	317.134	316.983	319.715	316.282	308.716	310.046	308.115	309.347	306.954
<b>35</b>	279.301	282.981	279.542	284.119	286.731	278.905	278.431	278.482	277.444	272.741
<b>40</b>	204.708	192.302	223.099	222.811	221.270	208.743	224.966	203.085	211.728	200.666
<b>45</b>	83.833	103.415	92.103	93.485	86.759	90.011	77.936	92.047	64.875	68.624
<b>50</b>	80.169	82.671	72.938	90.930	81.257	82.519	83.512	79.458	77.227	82.084
<b>55</b>	51.324	40.736	46.508	42.885	60.259	64.098	67.075	58.060	64.339	70.878
<b>60</b>	7.195	9.127	6.856	9.108	9.772	11.408	10.245	13.719	12.096	17.800
<b>65</b>	5.561	5.638	4.908	6.997	8.095	7.590	7.081	8.173	9.651	8.747
<b>70</b>	4.698	4.977	4.954	6.780	7.309	7.459	6.845	8.731	7.379	7.947
<b>75</b>	3.152	5.369	5.570	5.948	6.447	8.544	8.511	7.915	7.595	9.014
<b>80</b>	3.745	3.433	4.189	4.121	4.321	6.970	7.348	6.631	7.329	6.505
<b>85</b>	1.485	1.366	1.780	2.293	1.923	4.790	4.668	5.647	6.747	4.759
<b>90</b>	0.000	0.000	0.000	0.000	0.000	3.710	3.099	3.779	3.483	3.157
<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>	3789.161	3789.161	3789.161	3789.161	3789.161	3789.161	3789.161
<b>5</b>	2806.960	2970.529	2831.834	2791.023	2821.040	2814.154	2904.045
<b>10</b>	1267.192	1283.604	1187.836	1273.696	1215.171	1307.825	1213.227
<b>15</b>	512.358	464.846	474.395	510.886	486.999	511.571	453.684
<b>20</b>	358.402	362.327	361.921	355.266	356.870	358.489	361.491
<b>25</b>	334.317	341.659	342.131	333.605	337.626	338.590	344.526
<b>30</b>	303.366	316.870	316.679	309.931	311.566	312.245	316.165
<b>35</b>	272.623	280.561	283.293	278.441	278.341	280.939	279.301
<b>40</b>	174.429	209.775	196.265	172.681	183.205	183.910	204.708
<b>45</b>	89.708	68.202	74.273	90.973	88.985	93.890	83.833

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50	79.826	88.270	83.392	83.673	82.022	86.960	80.169
55	56.203	70.377	57.811	49.181	51.188	57.396	51.324
60	19.234	13.072	13.333	11.604	11.543	14.709	7.195
65	7.255	9.422	9.659	5.036	6.641	5.229	5.561
70	7.179	9.077	8.405	4.269	4.283	5.034	4.698
75	7.929	10.624	10.057	4.759	4.933	3.872	3.152
80	7.634	10.091	9.772	3.488	2.838	3.325	3.745
85	3.741	6.702	5.921	2.020	1.601	0.882	1.485
90	3.495	3.563	3.633	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	400.99	N.A.	45.80
0-30	556.07	N.A.	63.50
0-40	723.61	N.A.	82.60
0-60	856.68	N.A.	97.80
0-80	871.73	N.A.	99.50
0-90	875.69	N.A.	99.90
10-90	647.63	N.A.	73.90
20-40	322.62	N.A.	36.80
20-50	409.57	N.A.	46.70
40-70	141.22	N.A.	16.10
60-80	15.05	N.A.	1.70
70-80	6.90	N.A.	0.80
80-90	3.96	N.A.	0.50
90-110	0.48	N.A.	0.10
90-120	0.48	N.A.	0.10
90-130	0.48	N.A.	0.10
90-150	0.48	N.A.	0.10
90-180	0.48	N.A.	0.10
110-180	0.00	N.A.	0.00
0-180	876.17	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	228.05
10-20	172.94
20-30	155.08
30-40	167.55
40-50	86.94
50-60	46.12
60-70	8.15
70-80	6.90
80-90	3.96
90-100	0.48
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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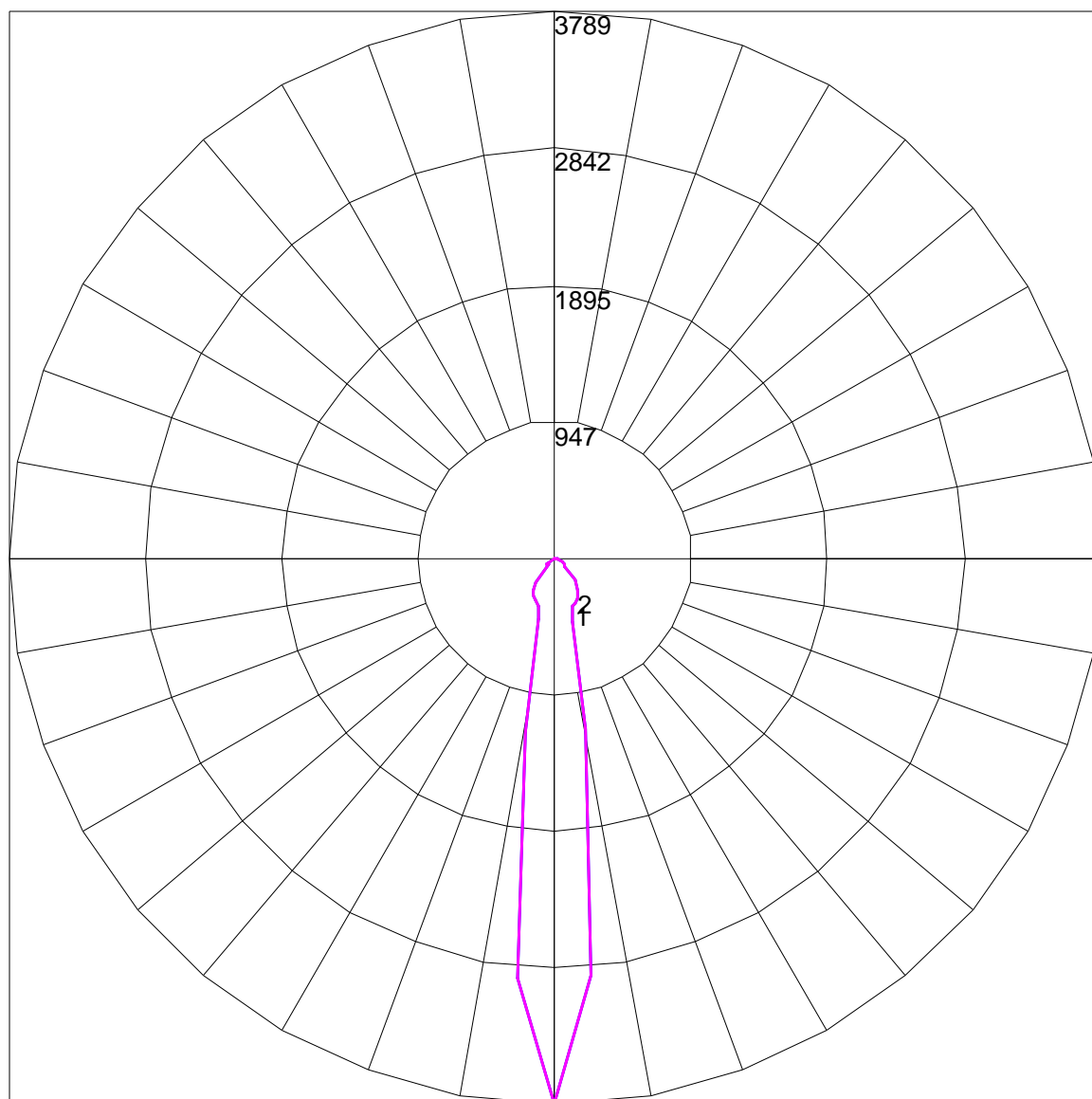
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	108	106	111	108	106	104	104	102	101	100	99	98	97	96	95	93
2	108	103	98	95	105	101	97	94	98	94	92	95	92	90	92	90	88	86
3	102	96	91	87	100	94	90	86	92	88	84	89	86	83	87	84	82	80
4	97	89	84	80	95	88	83	79	86	82	78	84	80	77	82	79	76	75
5	92	84	78	74	91	83	78	74	81	77	73	80	76	72	78	75	72	70
6	88	79	73	69	87	79	73	69	77	72	69	76	71	68	74	71	68	66
7	84	75	69	65	83	74	69	65	73	68	65	72	68	64	71	67	64	63
8	81	71	66	62	79	71	65	62	70	65	61	69	64	61	68	64	61	59
9	77	68	62	59	76	68	62	58	67	62	58	66	61	58	65	61	58	57
10	74	65	60	56	73	65	59	56	64	59	56	63	59	56	62	58	55	54

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POLAR GRAPH



Maximum Candela = 3789.161 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)