

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00616\_11 ~ C0808XT-20LXXK-WDEX-TCY-SOXXMW.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] SP-00616-11\_M-20L  
[TESTLAB] VLS-245-981  
[MANUFAC] Spectrum Lighting  
[ISSUE DATE] 9/20/2017  
[UPDATE] 3/9/2018  
[LUMCAT] C0808XT-20L-xxK-WD-EX-TCY-SO  
[LUMINAIRE] Nom. 8" Diam. x 8" H. Accent Biaxial Adjustable Downlight Cylinder  
[OTHER] Internal Reflector, Wide Beam  
[OTHER] Solite Lens, Flush with Lower Trim  
[OTHER] 42.7 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	1786
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	82
Total Luminaire Watts	21.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.70
Spacing Criterion (90-270)	0.72
Spacing Criterion (Diagonal)	0.74
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\_11 ~ C0808XT-20LXXK-WDEX-TCY-SOXXMW.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	19874	21518	19683
55	7234	7932	7655
65	5325	5694	5599
75	5957	5954	5949
85	6132	5504	5593

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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>	2501.331	2501.331	2501.331	2501.331	2501.331	2501.331	2501.331	2501.331	2501.331	2501.331
<b>5</b>	2429.198	2471.090	2469.906	2476.134	2460.207	2409.233	2404.038	2364.032	2357.694	2320.423
<b>10</b>	2171.831	2236.797	2233.100	2257.996	2217.226	2134.572	2124.264	2057.528	2045.590	1987.926
<b>15</b>	1806.656	1878.145	1873.882	1904.439	1848.705	1754.386	1742.204	1673.001	1657.660	1597.017
<b>20</b>	1421.036	1484.642	1477.947	1505.643	1445.346	1358.215	1339.413	1279.073	1265.462	1217.492
<b>25</b>	1074.942	1115.303	1116.219	1127.962	1081.820	1013.171	989.489	951.174	930.504	906.028
<b>30</b>	801.411	832.910	832.997	845.791	805.521	754.636	745.703	709.933	702.178	670.008
<b>35</b>	579.500	611.165	602.183	623.549	588.156	533.513	527.347	491.821	491.465	456.563
<b>40</b>	371.228	398.390	386.507	400.079	372.753	325.126	312.778	291.374	283.269	265.877
<b>45</b>	200.517	219.996	217.096	217.344	198.585	173.473	170.878	154.452	144.528	138.842
<b>50</b>	102.974	112.299	115.641	114.446	103.340	94.513	91.299	84.292	83.584	78.452
<b>55</b>	59.202	63.470	64.914	67.584	62.644	57.996	56.340	53.829	55.163	53.227
<b>60</b>	42.249	43.129	43.600	45.168	43.005	41.826	42.434	41.294	42.585	40.685
<b>65</b>	32.110	34.754	34.336	34.427	33.760	35.340	36.166	36.116	34.814	34.842
<b>70</b>	28.547	27.202	28.969	28.163	27.852	30.592	32.278	31.180	31.330	31.478
<b>75</b>	21.999	22.120	21.988	22.478	21.968	29.211	28.857	27.197	27.423	28.713
<b>80</b>	15.276	16.534	15.415	16.916	15.732	25.282	24.041	24.770	23.741	23.302
<b>85</b>	7.626	7.570	6.844	8.064	6.955	15.245	16.199	15.398	14.653	16.096
<b>90</b>	1.607	0.707	1.547	0.866	1.960	7.534	6.184	9.814	5.660	10.065
<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>	2501.331	2501.331	2501.331	2501.331	2501.331	2501.331	2501.331
<b>5</b>	2324.909	2298.832	2344.458	2378.661	2382.666	2424.839	2429.198
<b>10</b>	1998.309	1970.775	2028.565	2090.149	2093.389	2154.012	2171.831
<b>15</b>	1610.029	1587.197	1645.722	1719.539	1717.566	1787.611	1806.656
<b>20</b>	1227.116	1216.078	1271.220	1337.176	1338.685	1398.127	1421.036
<b>25</b>	911.118	908.133	950.040	1000.587	1009.650	1051.887	1074.942
<b>30</b>	677.551	666.330	704.197	748.364	751.665	790.765	801.411
<b>35</b>	457.201	451.899	490.595	527.058	527.566	567.424	579.500
<b>40</b>	270.628	266.996	295.707	326.294	329.043	359.432	371.228
<b>45</b>	146.400	141.915	154.677	173.365	182.602	199.501	200.517

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<b>50</b>	79.725	78.664	85.958	91.657	95.414	104.663	102.974
<b>55</b>	50.509	51.887	55.672	55.310	53.135	58.473	59.202
<b>60</b>	39.771	40.403	41.602	40.352	39.466	40.095	42.249
<b>65</b>	34.804	36.500	36.163	33.292	33.031	32.524	32.110
<b>70</b>	30.641	32.828	32.241	26.877	27.269	28.051	28.547
<b>75</b>	26.956	27.233	29.864	19.497	21.972	23.064	21.999
<b>80</b>	22.331	23.327	24.275	16.003	15.417	14.418	15.276
<b>85</b>	14.691	16.361	15.570	5.930	6.992	7.036	7.626
<b>90</b>	6.132	7.728	11.401	0.642	1.419	0.995	1.607
<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	702.56	N.A.	39.30
0-30	1172.69	N.A.	65.70
0-40	1505.7	N.A.	84.30
0-60	1710.3	N.A.	95.80
0-80	1771.43	N.A.	99.20
0-90	1784.26	N.A.	99.90
10-90	1564.49	N.A.	87.60
20-40	803.14	N.A.	45.00
20-50	951.71	N.A.	53.30
40-70	239.42	N.A.	13.40
60-80	61.13	N.A.	3.40
70-80	26.31	N.A.	1.50
80-90	12.83	N.A.	0.70
90-110	1.27	N.A.	0.10
90-120	1.27	N.A.	0.10
90-130	1.27	N.A.	0.10
90-150	1.27	N.A.	0.10
90-180	1.27	N.A.	0.10
110-180	0.00	N.A.	0.00
0-180	1785.53	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	219.78
10-20	482.78
20-30	470.13
30-40	333.01
40-50	148.57
50-60	56.04
60-70	34.82
70-80	26.31
80-90	12.83
90-100	1.27
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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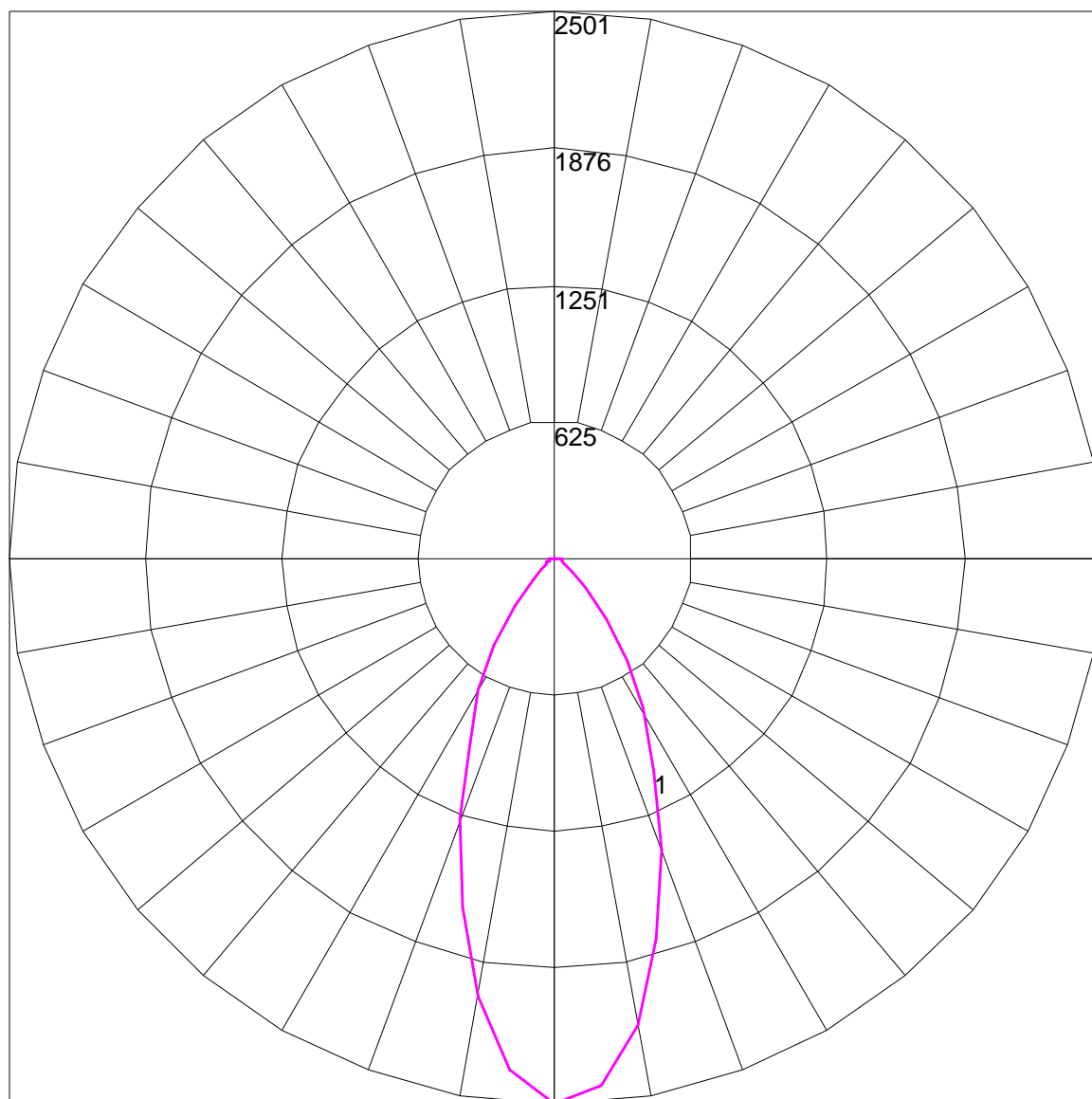
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	104	110	107	105	103	103	101	99	100	98	96	96	95	94	92
2	107	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84
3	101	94	88	84	99	92	87	83	90	86	82	87	84	81	85	82	80	78
4	95	87	81	77	94	86	81	76	84	79	76	82	78	75	80	77	74	72
5	90	82	75	71	89	81	75	71	79	74	70	77	73	69	75	72	69	67
6	86	76	70	66	84	76	70	65	74	69	65	73	68	65	71	67	64	63
7	82	72	66	61	80	71	65	61	70	65	61	69	64	60	67	63	60	59
8	78	68	62	57	76	67	61	57	66	61	57	65	60	57	64	60	56	55
9	74	64	58	54	73	63	58	54	63	57	53	62	57	53	61	56	53	52
10	71	61	55	51	70	60	54	51	59	54	50	59	54	50	58	53	50	49

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POLAR GRAPH



Maximum Candela = 2501.331 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)