

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00616\_10 ~ C0808XT-30LXXK-WDEX-TCY-NLXXMW.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] SP-00616\_10  
[TESTLAB] VLS-245-981  
[MANUFAC] Spectrum Lighting  
[ISSUE DATE] 9/20/2017  
[UPDATE] 3/9/2018  
[LUMCAT] C0808XT-30L-xxK-WD-EX-TCY-NL  
[LUMINAIRE] Nom. 8" Diam. x 8" H. Accent Biaxial Adjustable Downlight Cylinder  
[OTHER] Internal Reflector, Wide Beam  
[OTHER] No lens  
[OTHER] xx.x 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

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2858
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	88
Total Luminaire Watts	32.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.64
Spacing Criterion (90-270)	0.64
Spacing Criterion (Diagonal)	0.66
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\_10 ~ C0808XT-30LXXK-WDEX-TCY-NLXXMW.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	21462	25354	23861
55	3901	4139	3940
65	4347	4519	4860
75	5323	5715	5810
85	10332	8751	9519

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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>	4770.584	4770.584	4770.584	4770.584	4770.584	4770.584	4770.584	4770.584	4770.584	4770.584
<b>5</b>	4621.731	4683.036	4658.496	4664.258	4584.592	4472.438	4480.652	4370.638	4376.999	4288.483
<b>10</b>	4012.584	4116.346	4064.859	4088.741	3952.239	3781.442	3769.066	3628.206	3622.247	3506.493
<b>15</b>	3207.534	3330.502	3269.130	3302.231	3158.293	2987.326	2972.048	2834.881	2817.683	2715.938
<b>20</b>	2375.630	2499.512	2453.337	2502.987	2387.905	2247.571	2239.241	2114.546	2099.285	1999.743
<b>25</b>	1677.296	1777.842	1750.046	1811.115	1729.351	1623.249	1618.872	1517.146	1506.601	1430.196
<b>30</b>	1231.023	1287.893	1280.287	1318.284	1271.012	1202.327	1191.551	1140.556	1127.790	1091.675
<b>35</b>	994.160	1017.887	1030.066	1041.510	1017.498	967.427	941.202	910.487	879.994	846.285
<b>40</b>	654.750	732.651	729.760	751.315	686.429	592.695	603.589	494.192	498.582	403.764
<b>45</b>	216.534	293.461	255.803	316.344	240.737	183.075	177.545	133.050	122.434	99.566
<b>50</b>	47.092	47.025	57.382	55.552	51.548	42.225	39.393	36.167	38.263	36.576
<b>55</b>	31.924	31.331	33.870	33.439	32.241	35.232	36.858	35.402	36.213	33.787
<b>60</b>	30.033	28.158	29.624	30.611	30.885	34.316	35.562	36.275	35.170	34.010
<b>65</b>	26.212	26.654	27.251	26.182	29.308	33.824	33.862	35.647	35.289	34.309
<b>70</b>	20.219	23.741	24.262	22.926	24.535	34.530	33.548	33.401	33.424	30.574
<b>75</b>	19.659	20.033	21.104	22.563	21.457	33.202	34.107	32.308	33.861	33.055
<b>80</b>	16.717	19.546	17.652	17.739	18.952	31.919	32.392	33.433	36.800	34.050
<b>85</b>	12.848	11.948	10.883	13.754	11.838	27.398	28.045	25.273	26.971	25.345
<b>90</b>	2.142	1.092	2.381	1.179	2.902	16.495	10.036	15.495	9.542	17.549
<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>	4770.584	4770.584	4770.584	4770.584	4770.584	4770.584	4770.584
<b>5</b>	4332.211	4278.115	4383.452	4505.720	4523.609	4603.626	4621.731
<b>10</b>	3552.673	3496.165	3631.366	3816.157	3840.601	3986.818	4012.584
<b>15</b>	2737.270	2696.540	2814.464	2994.894	3019.144	3178.736	3207.534
<b>20</b>	2029.775	1972.778	2072.361	2216.948	2220.194	2358.149	2375.630
<b>25</b>	1440.198	1406.474	1470.246	1571.344	1569.990	1667.431	1677.296
<b>30</b>	1088.929	1077.025	1106.996	1163.446	1165.758	1222.144	1231.023
<b>35</b>	842.364	821.706	858.852	918.939	947.732	969.468	994.160
<b>40</b>	440.137	387.056	470.518	560.402	557.036	648.265	654.750
<b>45</b>	86.402	94.071	110.521	158.746	152.980	220.912	216.534

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50	37.911	35.976	37.181	33.930	40.319	37.293	47.092
55	33.777	33.408	34.752	31.482	31.794	29.550	31.924
60	33.167	32.839	32.461	27.720	27.703	30.114	30.033
65	32.578	30.784	30.335	23.125	24.284	27.740	26.212
70	31.295	29.087	30.649	20.068	20.887	21.876	20.219
75	32.132	31.867	31.423	18.944	17.930	21.184	19.659
80	33.088	33.406	32.542	16.113	17.878	14.862	16.717
85	24.168	27.250	25.885	9.493	9.433	11.632	12.848
90	11.135	17.967	20.950	1.015	1.585	1.140	2.142
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	1242.91	N.A.	43.50
0-30	1997.35	N.A.	69.90
0-40	2562.54	N.A.	89.70
0-60	2778.42	N.A.	97.20
0-80	2835.8	N.A.	99.20
0-90	2855.29	N.A.	99.90
10-90	2447.91	N.A.	85.70
20-40	1319.63	N.A.	46.20
20-50	1504.01	N.A.	52.60
40-70	245.30	N.A.	8.60
60-80	57.38	N.A.	2.00
70-80	27.96	N.A.	1.00
80-90	19.49	N.A.	0.70
90-110	2.27	N.A.	0.10
90-120	2.27	N.A.	0.10
90-130	2.27	N.A.	0.10
90-150	2.27	N.A.	0.10
90-180	2.27	N.A.	0.10
110-180	0.00	N.A.	0.00
0-180	2857.56	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	407.38
10-20	835.53
20-30	754.44
30-40	565.19
40-50	184.37
50-60	31.51
60-70	29.42
70-80	27.96
80-90	19.49
90-100	2.27
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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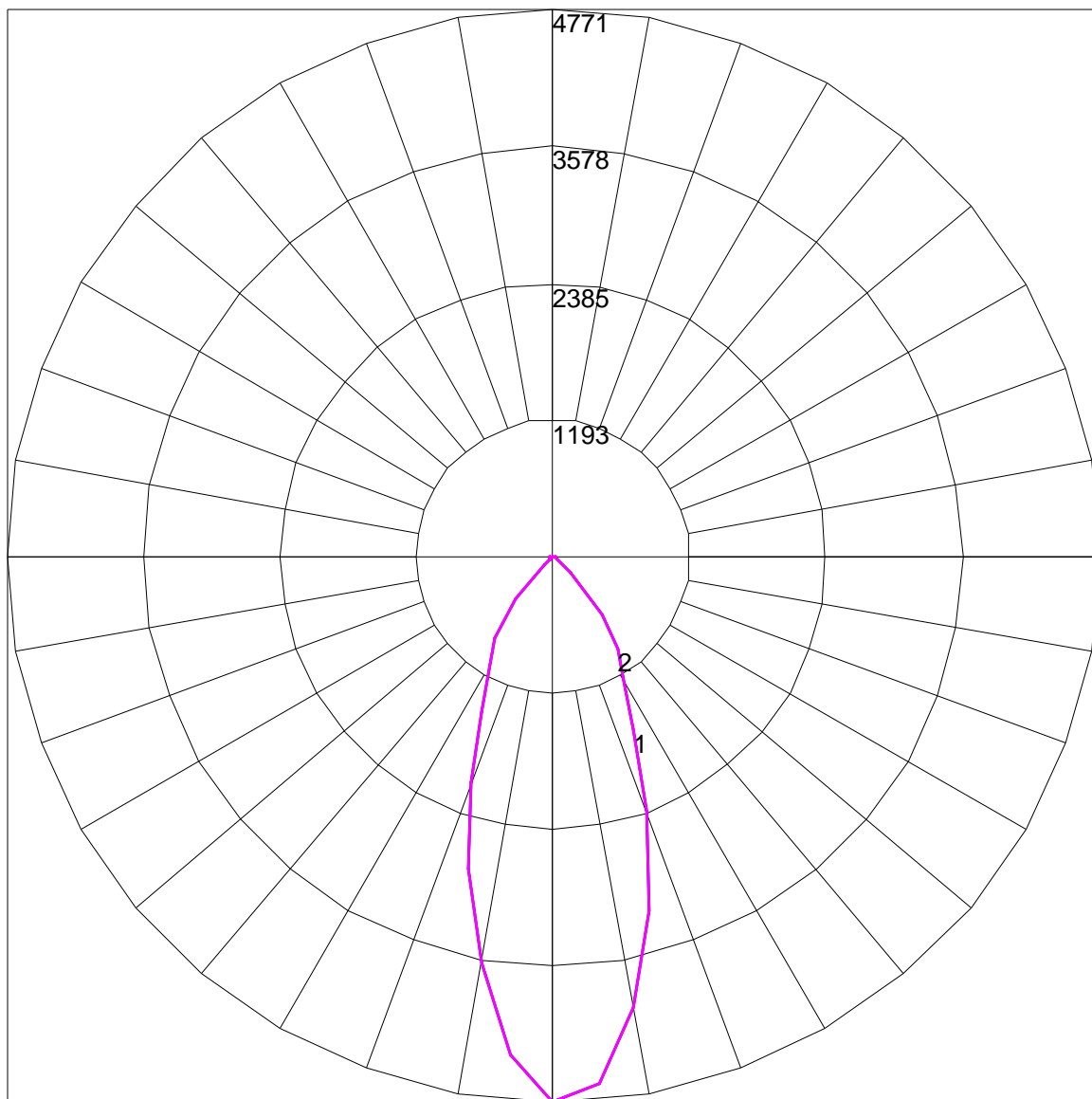
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93
2	107	102	98	95	105	101	97	94	97	94	92	94	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	75	72	78	74	72	70
6	88	79	73	69	86	78	73	69	77	72	68	75	71	68	74	70	67	66
7	84	75	69	65	82	74	68	64	73	68	64	71	67	64	70	66	63	62
8	80	71	65	61	79	70	64	61	69	64	60	68	63	60	67	63	60	58
9	76	67	61	57	75	66	61	57	65	60	57	65	60	57	64	60	56	55
10	73	64	58	54	72	63	58	54	62	57	54	62	57	54	61	57	54	52

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POLAR GRAPH



Maximum Candela = 4770.584 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)