

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00616_6 ~ C0808XT-10LXXK-NDEX-TCY-NLXXMW.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] SP-00616_6_M-10L
[TESTLAB] VLS-245-981
[MANUFAC] Spectrum Lighting
[ISSUE DATE] 9/20/2017
[UPDATE] 3/9/2018
[LUMCAT] C0808XT-10L-xxK-ND-EX-TCY-NL
[LUMINAIRE] Nom. 8" Diam. x 8" H. Accent Biaxial Adjustable Downlight Cylinder
[OTHER] Internal Reflector, Narrow Beam
[OTHER] No Lens
[OTHER] 19.9 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	875
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	96
Total Luminaire Watts	9.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.38
Spacing Criterion (90-270)	0.36
Spacing Criterion (Diagonal)	0.36
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

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Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	13180	13774	13859
55	5239	4795	4364
65	884	1016	869
75	978	1120	1032
85	1308	1453	1485

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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	2618.270	2618.270	2618.270	2618.270	2618.270	2618.270	2618.270	2618.270	2618.270	2618.270
5	2308.887	2370.301	2324.666	2337.880	2253.903	2184.550	2165.124	2051.729	2061.563	1980.429
10	1410.231	1491.325	1435.017	1461.140	1357.747	1275.611	1251.991	1126.293	1142.369	1065.352
15	692.215	737.061	703.995	726.025	662.253	622.465	609.711	551.670	558.772	525.977
20	415.487	427.814	418.792	425.632	404.189	392.723	389.118	376.303	377.721	371.036
25	351.843	355.806	354.253	354.671	351.069	346.177	343.743	341.013	340.485	341.385
30	332.643	337.860	337.045	336.907	334.838	331.506	328.301	323.653	324.439	325.375
35	308.584	315.978	314.906	317.124	308.912	302.208	296.649	282.633	284.018	274.739
40	226.951	241.957	238.525	246.393	231.702	214.325	205.510	184.236	178.809	167.411
45	132.976	141.853	138.967	145.909	139.830	129.326	123.481	112.449	107.185	104.993
50	88.668	90.024	83.511	90.053	84.708	81.923	81.862	79.639	78.959	80.119
55	42.872	44.752	39.245	40.206	35.716	34.248	35.971	34.573	35.488	35.287
60	11.228	13.034	11.821	11.293	9.622	10.238	10.559	11.035	11.529	11.087
65	5.333	4.723	6.129	5.213	5.240	6.035	7.057	7.965	6.866	7.334
70	3.827	2.969	4.661	4.378	3.898	6.850	7.268	6.720	6.586	6.768
75	3.610	3.760	4.135	3.829	3.812	6.675	7.577	6.929	7.111	8.338
80	3.541	3.197	3.537	3.188	3.007	6.814	7.058	7.679	6.963	6.653
85	1.627	1.963	1.807	2.003	1.847	5.899	5.350	5.882	5.509	5.357
90	0.470	0.269	0.585	0.286	0.466	3.686	1.126	3.164	1.159	3.776
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	2618.270	2618.270	2618.270	2618.270	2618.270	2618.270	2618.270
5	2033.895	1995.136	2081.309	2190.251	2209.315	2321.122	2308.887
10	1118.478	1084.548	1170.107	1277.560	1301.665	1426.520	1410.231
15	548.031	531.053	571.548	621.612	635.906	702.380	692.215
20	375.280	372.598	382.295	394.806	397.670	417.476	415.487
25	341.744	343.132	343.980	347.397	346.685	351.791	351.843
30	327.187	327.237	328.968	330.342	328.260	331.499	332.643
35	283.432	278.071	292.271	298.497	298.790	309.405	308.584
40	172.998	170.530	183.701	198.564	205.304	225.229	226.951
45	103.892	101.560	106.232	113.943	119.357	128.648	132.976

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50	80.549	77.705	82.252	84.127	83.059	90.141	88.668
55	37.017	36.048	38.678	40.530	37.214	44.033	42.872
60	11.979	10.143	11.031	10.219	9.669	11.514	11.228
65	7.485	6.934	7.803	4.143	4.724	4.612	5.333
70	6.897	6.091	6.008	3.929	4.307	3.945	3.827
75	7.077	6.455	7.047	3.060	3.540	3.509	3.610
80	6.458	6.876	6.935	2.638	2.791	3.102	3.541
85	4.741	5.130	5.657	1.670	1.819	1.921	1.627
90	1.506	3.645	3.053	0.150	0.646	0.289	0.470
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	377.78	N.A.	43.20
0-30	541.49	N.A.	61.90
0-40	718.04	N.A.	82.10
0-60	858.10	N.A.	98.10
0-80	870.75	N.A.	99.50
0-90	874.51	N.A.	100.00
10-90	693.59	N.A.	79.30
20-40	340.26	N.A.	38.90
20-50	442.46	N.A.	50.60
40-70	147.11	N.A.	16.80
60-80	12.64	N.A.	1.40
70-80	5.59	N.A.	0.60
80-90	3.77	N.A.	0.40
90-110	0.42	N.A.	0.00
90-120	0.42	N.A.	0.00
90-130	0.42	N.A.	0.00
90-150	0.42	N.A.	0.00
90-180	0.42	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	874.93	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	180.92
10-20	196.86
20-30	163.72
30-40	176.55
40-50	102.19
50-60	37.87
60-70	7.05
70-80	5.59
80-90	3.77
90-100	0.42
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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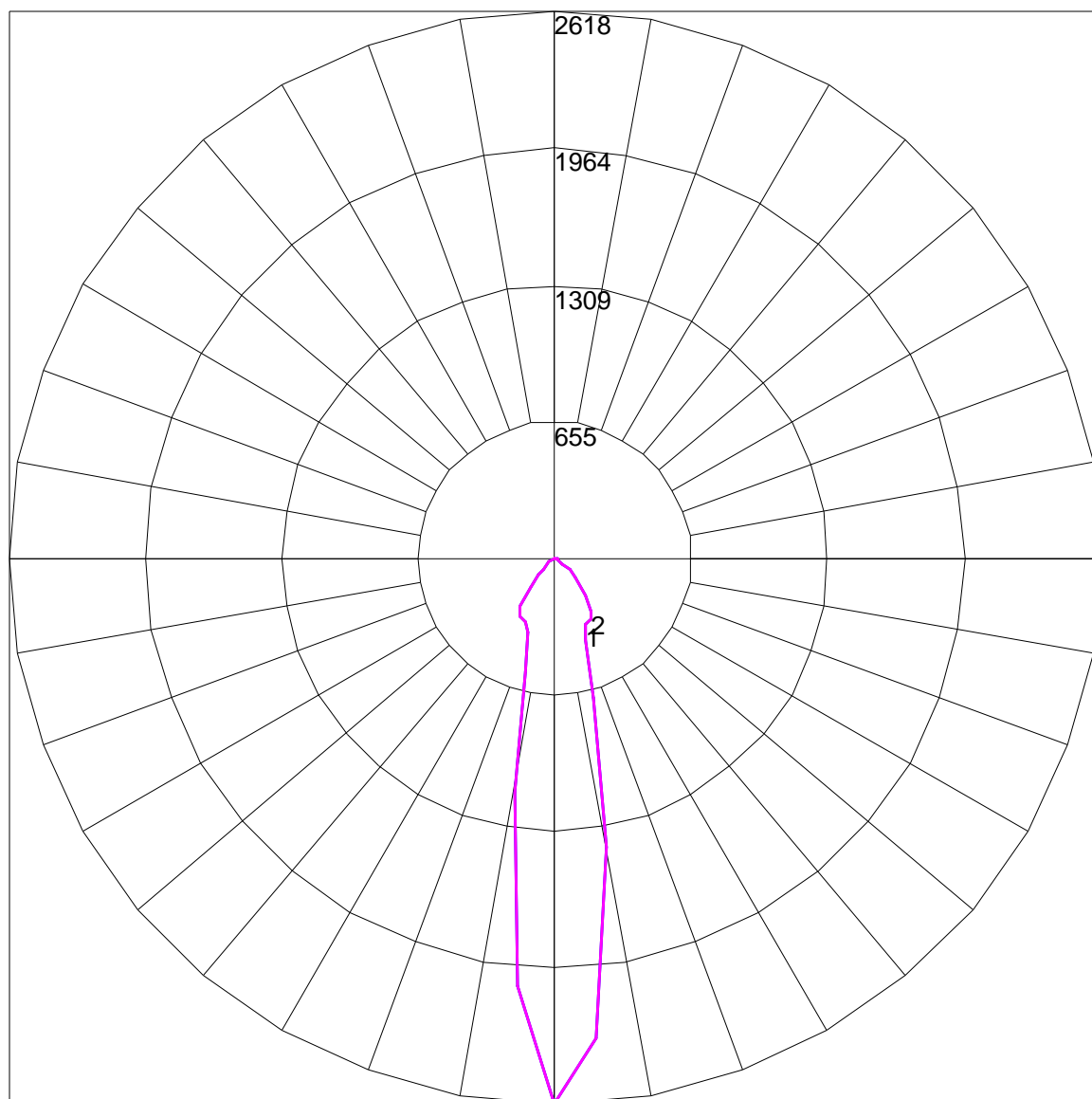
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	94	105	100	97	93	97	94	91	94	92	89	91	89	87	86
3	102	95	90	86	100	94	89	85	91	87	84	89	85	82	86	83	81	79
4	96	89	83	79	95	88	82	78	85	81	77	83	79	76	81	78	75	74
5	92	83	77	73	90	82	77	72	80	75	72	79	74	71	77	73	70	69
6	87	78	72	68	86	77	72	67	76	71	67	74	70	66	73	69	66	65
7	83	74	68	63	82	73	67	63	72	67	63	70	66	62	69	65	62	61
8	79	70	64	60	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 = 2618.27 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)