

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00616_3 ~ C0808XT-10LXXK-MDEX-TCY-SOXXMW.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] SP-00616_3_M-10L
[TESTLAB] VLS-245-981
[MANUFAC] Spectrum Lighting
[ISSUE DATE] 9/20/2017
[UPDATE] 3/9/2018
[LUMCAT] C0808XT-10L-xxK-MD-EX-TCY-SO
[LUMINAIRE] Nom. 8" Diam. x 8" H. Accent Biaxial Adjustable Downlight Cylinder
[OTHER] Internal Reflector, Medium Beam
[OTHER] Solite Lens, Flush with Lower Trim
[OTHER] 25.2 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	885
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	97
Total Luminaire Watts	9.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.42
Spacing Criterion (90-270)	0.44
Spacing Criterion (Diagonal)	0.46
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	8388	8889	8831
55	3174	3313	3278
65	2222	2201	2254
75	2197	2264	2468
85	1771	1575	1939

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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	2292.395	2292.395	2292.395	2292.395	2292.395	2292.395	2292.395	2292.395	2292.395	2292.395
5	2017.618	2042.199	2009.479	2039.565	2025.033	2013.712	2037.354	2011.559	2043.102	2021.820
10	1422.521	1459.493	1417.930	1459.264	1432.477	1414.533	1444.641	1413.145	1456.953	1425.528
15	865.606	895.083	868.740	906.064	878.388	855.882	877.336	859.815	891.997	856.929
20	529.989	544.711	535.916	563.354	541.466	518.949	529.111	527.461	543.387	511.976
25	379.199	386.163	385.276	400.276	386.991	371.273	374.194	376.589	381.208	362.207
30	305.539	314.511	313.210	324.250	315.315	307.178	309.595	305.746	305.863	294.318
35	235.739	244.901	242.171	254.489	247.289	241.989	244.642	237.237	237.699	226.250
40	153.991	162.186	159.294	167.110	161.881	159.475	161.905	153.338	155.486	148.781
45	84.633	92.259	89.678	91.816	89.094	90.236	90.846	84.085	87.023	85.038
50	44.094	49.307	47.913	48.782	46.886	48.652	48.337	45.681	47.494	45.672
55	25.973	27.520	27.114	28.202	26.828	28.214	27.778	28.408	29.542	27.255
60	17.633	17.621	17.797	18.740	17.711	19.211	20.003	20.476	21.401	19.640
65	13.400	13.667	13.274	14.239	13.594	15.913	15.996	16.888	17.141	16.461
70	10.713	11.010	10.242	11.530	11.023	14.145	14.725	15.181	14.558	14.783
75	8.113	8.183	8.362	9.232	9.113	11.986	12.872	13.082	13.123	13.155
80	5.043	5.357	5.128	5.777	5.859	9.837	9.994	10.660	11.138	10.483
85	2.202	2.255	1.958	2.148	2.411	6.520	6.689	7.724	7.130	7.320
90	0.598	0.465	0.655	0.557	0.593	3.868	3.142	4.222	3.443	4.023
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	2292.395	2292.395	2292.395	2292.395	2292.395	2292.395	2292.395
5	2057.346	2024.887	2041.728	2045.102	2022.047	2046.998	2017.618
10	1472.619	1428.016	1446.638	1450.410	1416.973	1458.245	1422.521
15	889.736	859.549	872.100	868.314	845.433	886.957	865.606
20	526.259	516.232	521.727	513.126	503.407	536.503	529.989
25	367.129	366.077	367.879	362.808	359.622	378.337	379.199
30	298.021	295.316	297.452	296.791	294.237	305.176	305.539
35	230.836	226.423	227.944	227.894	225.664	236.252	235.739
40	153.513	146.782	148.866	149.829	148.062	154.836	153.991
45	86.874	81.149	82.172	85.136	84.021	84.076	84.633

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50	46.166	43.112	43.276	44.088	43.939	44.100	44.094
55	27.416	25.948	26.175	24.296	24.510	25.730	25.973
60	19.444	19.263	18.202	16.325	16.431	16.136	17.633
65	15.947	15.780	15.738	12.425	12.870	13.540	13.400
70	14.200	13.596	14.070	10.084	10.437	11.042	10.713
75	12.220	12.403	11.469	7.468	7.760	9.085	8.113
80	10.644	9.885	9.621	4.817	5.387	5.513	5.043
85	7.239	6.838	6.809	1.922	1.971	1.740	2.202
90	3.374	3.907	3.457	0.592	0.525	0.466	0.598
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	428.58	N.A.	48.50
0-30	609.54	N.A.	68.90
0-40	754.74	N.A.	85.30
0-60	852.79	N.A.	96.40
0-80	878.75	N.A.	99.30
0-90	883.94	N.A.	99.90
10-90	708.12	N.A.	80.10
20-40	326.16	N.A.	36.90
20-50	397.83	N.A.	45.00
40-70	113.08	N.A.	12.80
60-80	25.96	N.A.	2.90
70-80	10.92	N.A.	1.20
80-90	5.19	N.A.	0.60
90-110	0.58	N.A.	0.10
90-120	0.58	N.A.	0.10
90-130	0.58	N.A.	0.10
90-150	0.58	N.A.	0.10
90-180	0.58	N.A.	0.10
110-180	0.00	N.A.	0.00
0-180	884.52	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	175.82
10-20	252.76
20-30	180.96
30-40	145.20
40-50	71.67
50-60	26.38
60-70	15.03
70-80	10.92
80-90	5.19
90-100	0.58
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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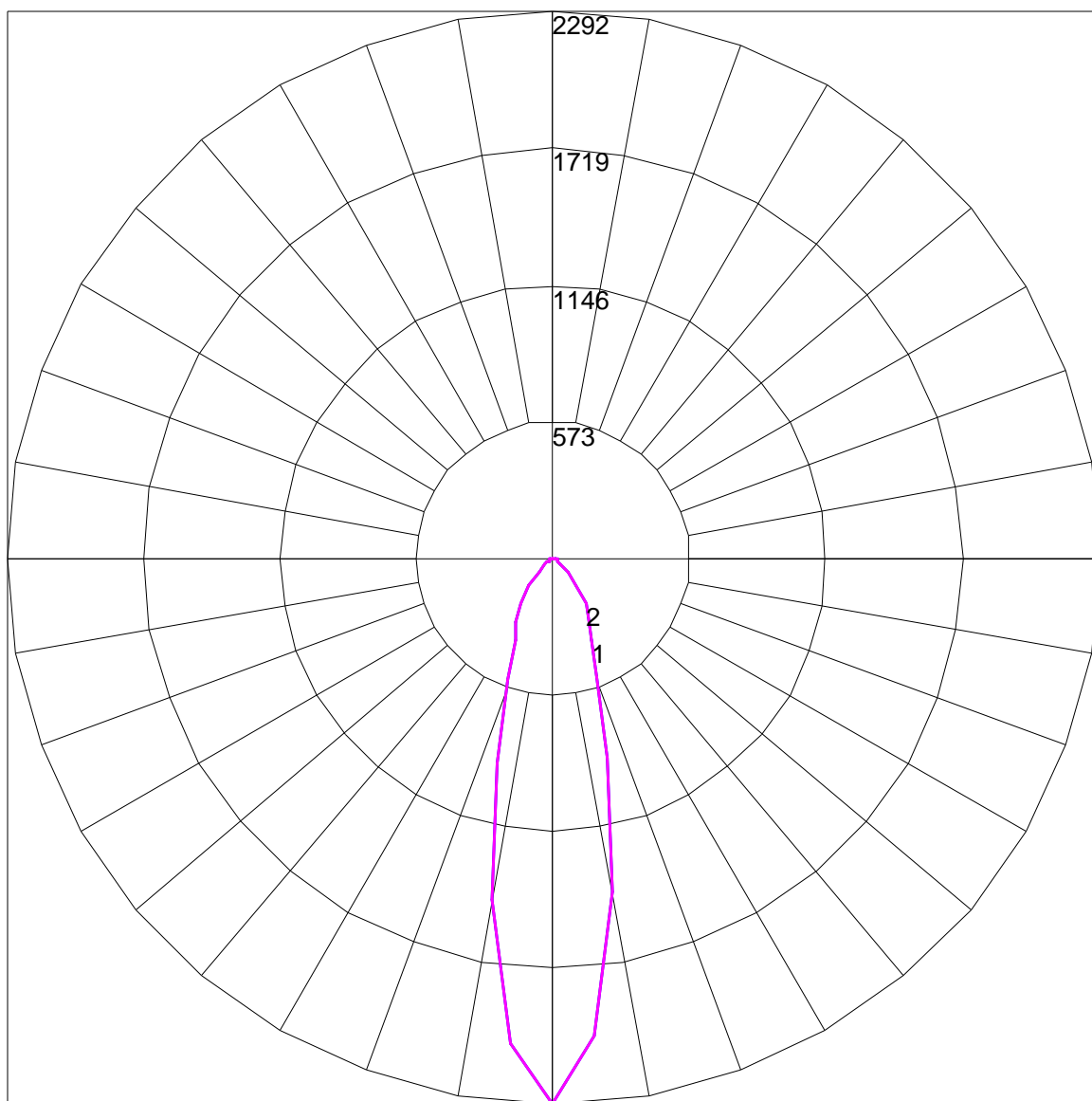
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	94	93
2	107	102	98	95	105	101	97	94	97	94	92	94	92	90	92	90	88	86
3	102	96	91	86	100	94	90	86	92	88	84	89	86	83	87	84	82	80
4	97	90	84	80	95	88	83	79	86	82	78	84	80	77	82	79	77	75
5	93	84	78	74	91	83	78	74	82	77	73	80	76	73	78	75	72	70
6	88	80	74	70	87	79	73	69	77	72	69	76	72	68	75	71	68	66
7	84	75	70	65	83	75	69	65	73	68	65	72	68	65	71	67	64	63
8	81	72	66	62	80	71	66	62	70	65	61	69	64	61	68	64	61	60
9	77	68	63	59	76	68	62	59	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 = 2292.395 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)