

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00616_14 ~ C0808XT-20LXXK-XNEX-TCY-NLXXMW.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] SP-00616_14
[TESTLAB] VLS-245-981
[MANUFAC] Spectrum Lighting
[ISSUE DATE] 9/20/2017
[UPDATE] 3/9/2018
[LUMCAT] C0808XT-20L-xxK-XN-EX-TCY-NL
[LUMINAIRE] Nom. 8" Diam. x 8" H. Accent Biaxial Adjustable Downlight Cylinder
[OTHER] Internal Reflector, Xtra Narrow Beam
[OTHER] No Lens
[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

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1821
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	51
Total Luminaire Watts	35.5
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.28
Spacing Criterion (90-270)	0.30
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

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Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	21159	18643	20490
55	4340	4775	8993
65	1578	1270	1744
75	1012	1567	2039
85	2282	2946	3225

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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	7938.818	7938.818	7938.818	7938.818	7938.818	7938.818	7938.818	7938.818	7938.818	7938.818
5	6203.125	6389.316	6480.812	6239.314	6393.833	6239.830	6249.682	6317.604	6322.337	6321.804
10	2312.558	2271.915	2468.995	2312.510	2654.425	2824.319	2772.119	2600.350	2558.461	2419.484
15	959.176	901.355	906.418	947.172	958.919	983.731	953.322	912.586	911.580	893.427
20	747.325	744.338	743.633	740.770	761.066	743.925	737.703	734.775	736.295	733.455
25	705.033	705.754	700.115	692.926	709.966	688.432	689.736	694.300	692.523	683.883
30	691.388	684.371	674.452	655.138	669.943	650.494	657.823	658.626	661.865	667.250
35	635.215	632.909	627.344	624.359	625.688	609.951	612.007	615.435	618.880	624.765
40	444.175	472.779	482.816	440.467	484.091	442.851	450.020	462.857	468.762	459.712
45	213.474	201.439	188.091	222.491	206.732	196.436	187.098	170.655	172.015	177.167
50	191.719	207.018	192.428	209.574	187.569	177.353	181.938	173.591	193.580	201.030
55	35.519	29.657	39.081	27.921	73.599	94.703	99.276	88.312	89.023	80.488
60	10.980	9.032	10.848	10.468	13.855	15.077	14.827	16.679	17.772	16.229
65	9.517	8.442	7.659	9.061	10.515	13.088	12.522	14.094	13.841	13.976
70	6.630	7.105	5.315	6.161	9.720	11.150	11.808	12.501	10.827	13.029
75	3.738	6.549	5.785	6.689	7.528	10.872	13.244	14.588	12.297	13.855
80	5.729	4.119	3.805	3.389	5.638	12.147	10.832	11.589	12.205	12.766
85	2.838	2.379	3.663	3.740	4.011	9.569	9.936	11.860	11.473	10.487
90	0.000	0.000	0.000	0.000	0.000	7.073	7.334	7.036	6.489	6.917
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. 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	7938.818	7938.818	7938.818	7938.818	7938.818	7938.818	7938.818
5	6149.556	6300.727	5967.421	5865.611	5898.440	6063.428	6203.125
10	2398.089	2507.868	2400.303	2554.960	2466.622	2339.312	2312.558
15	961.150	912.144	1007.443	1001.865	999.351	974.899	959.176
20	734.978	741.072	760.472	751.044	747.055	750.885	747.325
25	688.608	692.849	705.405	697.718	698.342	702.359	705.033
30	667.336	659.851	675.876	668.289	675.233	681.502	691.388
35	622.004	616.476	630.604	623.082	627.115	627.972	635.215
40	426.930	463.862	420.211	391.838	401.068	429.632	444.175
45	201.335	171.592	217.196	223.935	231.889	221.372	213.474

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50	208.028	200.125	215.115	189.560	192.229	199.526	191.719
55	62.125	79.695	67.200	75.447	60.493	43.116	35.519
60	20.429	17.734	23.249	14.209	11.133	12.981	10.980
65	16.122	13.737	16.072	7.291	9.583	10.318	9.517
70	14.432	12.131	14.844	8.107	5.953	6.448	6.630
75	13.169	12.821	13.568	4.713	5.202	4.723	3.738
80	11.889	11.261	16.130	6.790	5.648	3.464	5.729
85	10.025	9.297	12.278	3.041	3.735	2.513	2.838
90	5.807	7.839	8.501	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	824.19	N.A.	45.30
0-30	1148.13	N.A.	63.00
0-40	1516.87	N.A.	83.30
0-60	1791.57	N.A.	98.40
0-80	1813.17	N.A.	99.60
0-90	1820.26	N.A.	99.90
10-90	1339.71	N.A.	73.60
20-40	692.69	N.A.	38.00
20-50	892.26	N.A.	49.00
40-70	286.51	N.A.	15.70
60-80	21.60	N.A.	1.20
70-80	9.79	N.A.	0.50
80-90	7.09	N.A.	0.40
90-110	0.98	N.A.	0.10
90-120	0.98	N.A.	0.10
90-130	0.98	N.A.	0.10
90-150	0.98	N.A.	0.10
90-180	0.98	N.A.	0.10
110-180	0.00	N.A.	0.00
0-180	1821.23	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	480.55
10-20	343.64
20-30	323.94
30-40	368.75
40-50	199.57
50-60	75.12
60-70	11.81
70-80	9.79
80-90	7.09
90-100	0.98
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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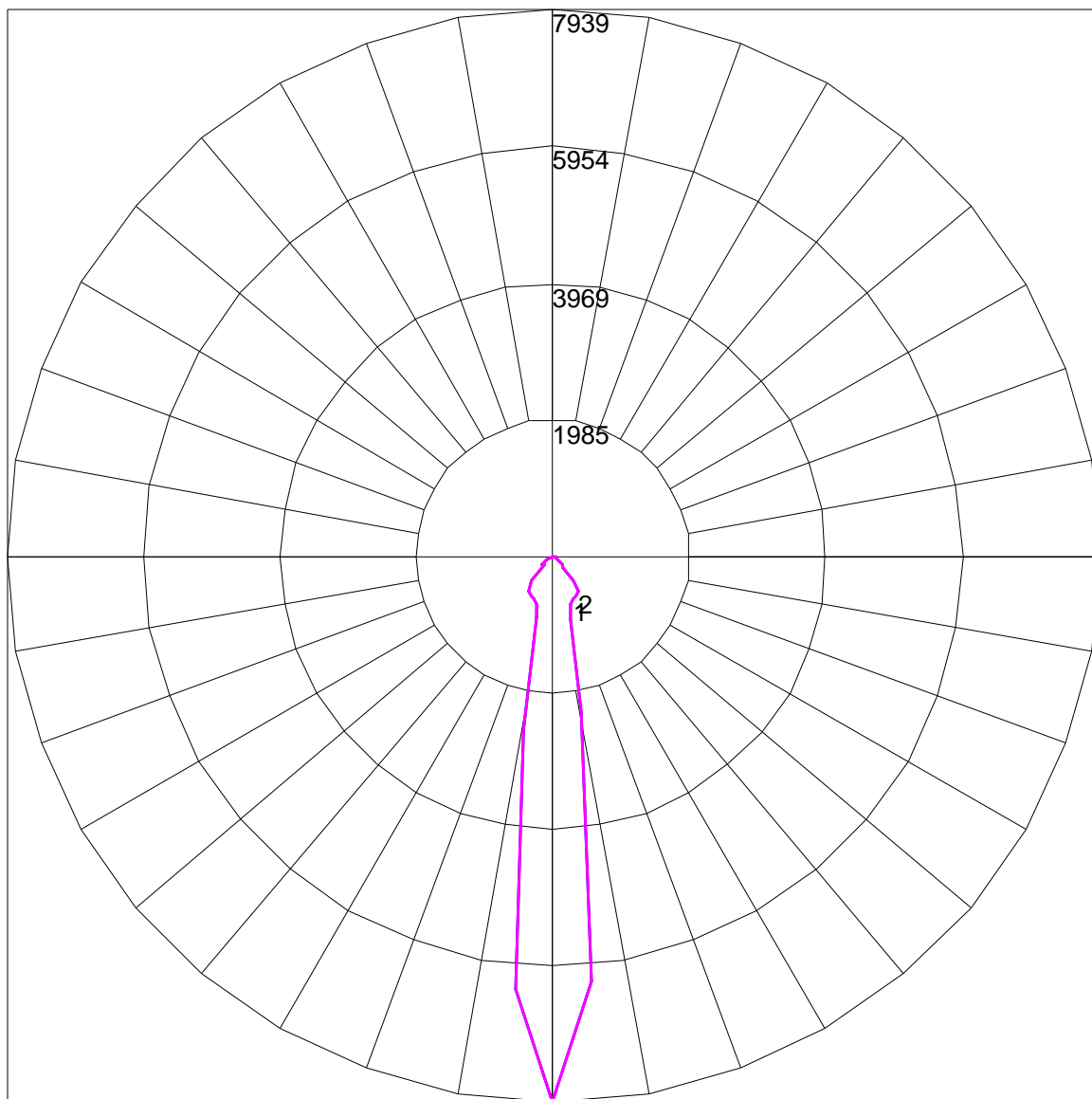
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93
2	108	103	99	95	106	101	97	94	98	95	92	95	92	90	92	90	88	87
3	102	96	91	87	100	95	90	86	92	88	85	89	86	84	87	85	82	81
4	97	90	84	80	96	89	84	80	87	82	79	85	81	78	83	80	77	75
5	93	84	79	74	91	84	78	74	82	77	73	80	76	73	79	75	72	71
6	88	80	74	70	87	79	73	69	77	73	69	76	72	68	75	71	68	67
7	84	75	70	66	83	75	69	65	74	69	65	72	68	65	71	67	64	63
8	81	72	66	62	80	71	66	62	70	65	62	69	65	61	68	64	61	60
9	78	68	63	59	76	68	62	59	67	62	59	66	62	58	65	61	58	57
10	75	65	60	56	74	65	60	56	64	59	56	63	59	56	63	59	56	54

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POLAR GRAPH



Maximum Candela = 7938.818 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)