

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00611\_15 ~ C08XXSQXT-10LXXK-XWEX-TSG-SO.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] SP-00611\_15\_M-13L  
[TESTLAB] VLS-245-981  
[MANUFAC] Spectrum Lighting  
[ISSUE DATE] 6/29/2017  
[UPDATE] 2/2/2018  
[LUMCAT] C08xxSQXT-13L-xxK-XW-EX-TSG-SO  
[LUMINAIRE] Nom. 8" Square LED Cylinder Downlight  
[OTHER] Data applicable to: 12"H and 16"H Square Cylinders  
[OTHER] Upper, Internal Reflector, Xtra Wide Beam  
[OTHER] Lower Trim, Semi-diffuse Clear Anodized  
[OTHER] Solite Lens, Regressed in Lower Trim  
[OTHER] 58.9 Degree Beam Angle  
[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] Former Cat. No: SPC08SQ-LEDXT-series  
[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	957
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	74
Total Luminaire Watts	13
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.92
Spacing Criterion (90-270)	0.94
Spacing Criterion (Diagonal)	0.86
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.50 ft
Luminous Width (90-270)	0.50 ft
Luminous Height	0.00 ft

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00611\_15 ~ C08XXSQXT-10LXXK-XWEX-TSG-SO.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	5065	3698	3671
55	1270	766	627
65	329	201	113
75	155	127	109
85	245	324	388

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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	1093.922	1093.922	1093.922	1093.922	1093.922	1093.922	1093.922	1093.922	1093.922	1093.922
5	1076.377	1070.249	1072.681	1078.033	1090.727	1097.496	1095.958	1085.692	1074.542	1071.892
10	1025.382	1017.322	1023.452	1026.074	1049.752	1066.633	1065.167	1043.756	1026.691	1021.901
15	939.261	937.839	952.693	948.905	975.792	1004.102	997.169	967.240	945.495	946.077
20	831.962	842.424	866.138	853.528	873.922	908.133	896.539	859.335	844.995	857.096
25	704.387	708.116	726.415	727.119	733.392	734.875	730.855	721.628	720.542	721.353
30	537.851	496.561	496.856	535.772	516.291	456.412	467.106	528.568	534.311	494.448
35	342.260	267.993	262.780	311.758	286.876	226.365	236.053	305.522	307.708	264.904
40	176.859	123.153	125.409	145.692	134.002	110.489	113.715	143.002	146.844	128.427
45	83.268	57.282	60.782	67.836	60.341	52.513	55.036	62.677	69.912	63.842
50	37.201	25.608	27.761	29.057	24.594	18.577	19.523	27.640	32.618	30.040
55	16.930	10.157	10.213	11.022	8.367	3.782	4.921	9.998	13.915	12.544
60	7.585	4.264	3.354	3.182	2.468	2.015	2.323	4.191	5.769	5.441
65	3.231	2.257	1.971	1.244	1.115	1.752	2.477	2.239	2.889	3.444
70	1.417	1.784	1.406	0.935	0.826	2.159	2.638	2.349	2.275	2.968
75	0.935	1.150	0.764	0.679	0.653	2.080	2.496	2.667	2.487	3.410
80	0.609	0.506	0.545	0.506	0.674	2.591	2.821	3.119	2.932	2.714
85	0.497	0.657	0.657	0.677	0.786	3.411	3.184	3.211	3.812	3.350
90	0.527	0.525	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
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	1093.922	1093.922	1093.922	1093.922	1093.922	1093.922	1093.922
5	1070.122	1080.090	1070.824	1063.184	1065.404	1074.981	1076.377
10	1017.349	1029.169	1009.427	996.536	1000.704	1018.294	1025.382
15	933.998	943.422	922.413	914.525	920.304	931.196	939.261
20	832.753	834.388	822.315	824.952	830.065	832.767	831.962
25	703.578	705.192	697.086	681.764	685.046	709.166	704.387
30	504.473	538.965	520.903	482.300	483.195	532.867	537.851
35	279.484	347.988	329.852	278.267	282.569	338.783	342.260
40	130.896	188.443	182.697	129.119	136.118	185.924	176.859
45	61.841	93.026	93.475	58.357	60.807	96.730	83.268
50	29.572	44.692	45.511	30.329	31.115	47.101	37.201
55	12.800	21.749	22.625	13.966	14.130	21.598	16.930
60	5.876	11.148	11.276	6.230	5.379	10.023	7.585

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<b>65</b>	4.044	5.513	6.503	2.863	3.146	3.844	3.231
<b>70</b>	3.729	4.437	3.576	1.735	1.533	2.079	1.417
<b>75</b>	2.929	3.313	3.107	0.877	0.961	0.981	0.935
<b>80</b>	3.028	3.300	3.366	0.722	0.734	0.673	0.609
<b>85</b>	3.173	3.572	3.644	0.593	0.630	0.705	0.497
<b>90</b>	5.065	4.576	4.479	0.622	0.657	0.488	0.527
<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	366.78	N.A.	38.30
0-30	685.33	N.A.	71.60
0-40	875.78	N.A.	91.50
0-60	949.26	N.A.	99.20
0-80	954.75	N.A.	99.80
0-90	956.64	N.A.	100.00
10-90	855.39	N.A.	89.40
20-40	509.00	N.A.	53.20
20-50	568.52	N.A.	59.40
40-70	76.93	N.A.	8.00
60-80	5.49	N.A.	0.60
70-80	2.04	N.A.	0.20
80-90	1.89	N.A.	0.20
90-110	0.29	N.A.	0.00
90-120	0.29	N.A.	0.00
90-130	0.29	N.A.	0.00
90-150	0.29	N.A.	0.00
90-180	0.29	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	956.93	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	101.25
10-20	265.53
20-30	318.55
30-40	190.45
40-50	59.52
50-60	13.97
60-70	3.45
70-80	2.04
80-90	1.89
90-100	0.29
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

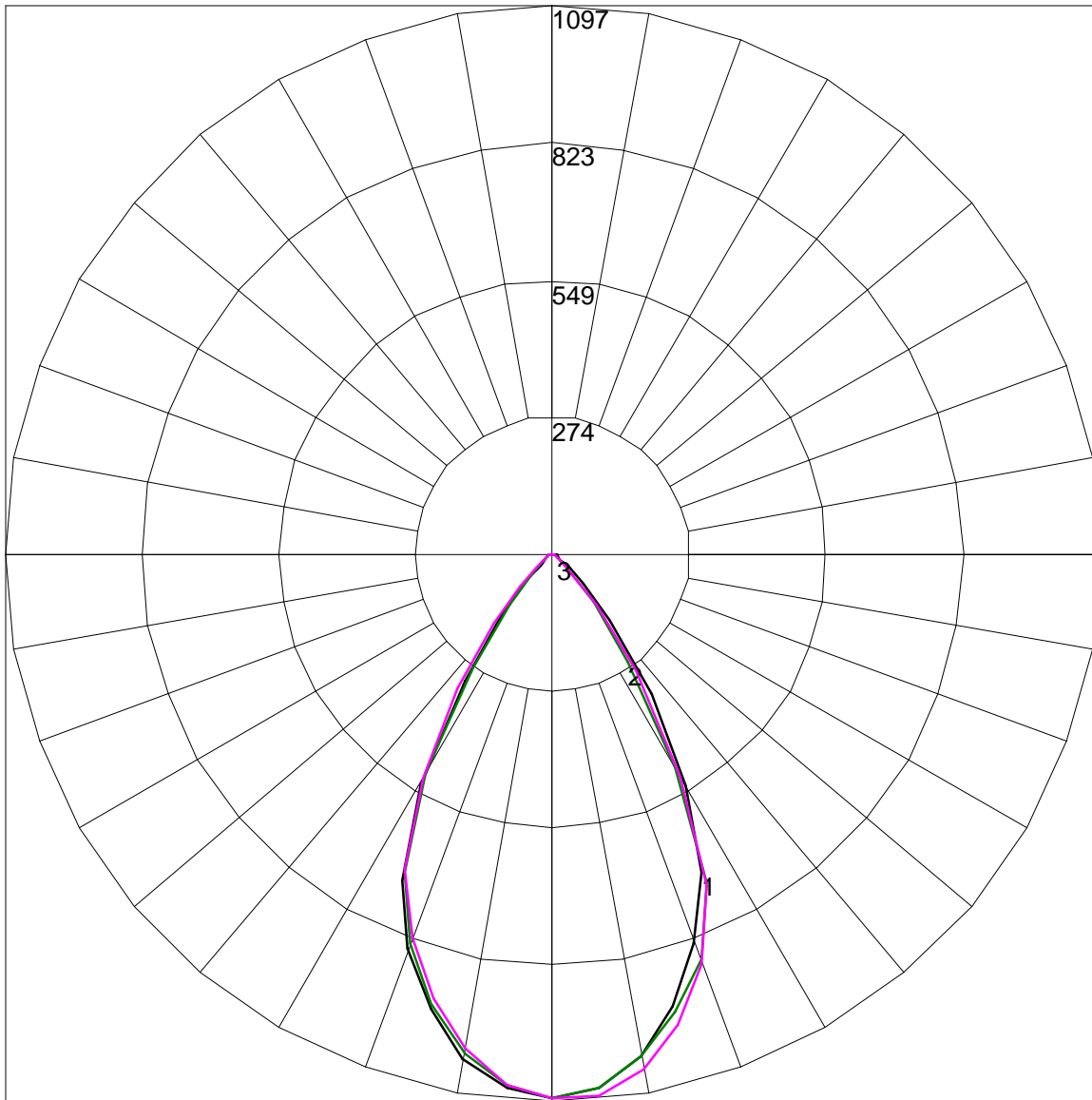
Effective Floor Cavity Reflectance 0.20

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	94	90	86	92	88	85	89	86	83	87	84	82	81
4	97	90	84	80	95	88	83	79	86	82	78	84	80	77	82	79	77	75
5	92	84	78	74	91	83	77	73	81	76	73	79	75	72	78	74	71	70
6	88	79	73	68	86	78	72	68	76	71	68	75	71	67	74	70	67	65
7	83	74	68	64	82	73	68	64	72	67	63	71	66	63	70	66	63	61
8	79	70	64	60	78	69	63	59	68	63	59	67	62	59	66	62	59	57
9	75	66	60	56	74	65	60	56	64	59	56	63	59	55	63	58	55	54
10	72	62	56	53	71	62	56	53	61	56	52	60	56	52	59	55	52	51

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## POLAR GRAPH



Maximum Candela = 1097.496 Located At Horizontal Angle = 112.5, Vertical Angle = 5

# 1 - Vertical Plane Through Horizontal Angles (0 - 180)

# 2 - Vertical Plane Through Horizontal Angles (45 - 225)

# 3 - Vertical Plane Through Horizontal Angles (90 - 270)