

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00611\_15 ~ C08XXSQXT-30LXXK-XWEX-TSG-SO.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] SP-00611\_15  
[TESTLAB] VLS-245-981  
[MANUFAC] Spectrum Lighting  
[ISSUE DATE] 6/29/2017  
[UPDATE] 2/2/2018  
[LUMCAT] C08xxSQXT-30L-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

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2208
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	68
Total Luminaire Watts	32.6
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-30LXXK-XWEX-TSG-SO.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	11690	8534	8472
55	2930	1768	1448
65	759	463	262
75	358	293	251
85	566	749	896

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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>	2524.629	2524.629	2524.629	2524.629	2524.629	2524.629	2524.629	2524.629	2524.629	2524.629
<b>5</b>	2484.138	2469.995	2475.609	2487.961	2517.257	2532.877	2529.329	2505.636	2479.904	2473.788
<b>10</b>	2366.449	2347.846	2361.995	2368.045	2422.690	2461.651	2458.268	2408.853	2369.469	2358.414
<b>15</b>	2167.693	2164.410	2198.692	2189.950	2252.000	2317.336	2301.336	2232.264	2182.080	2183.423
<b>20</b>	1920.061	1944.204	1998.934	1969.831	2016.899	2095.852	2069.095	1983.233	1950.139	1978.065
<b>25</b>	1625.634	1634.240	1676.472	1678.096	1692.574	1695.996	1686.718	1665.424	1662.918	1664.790
<b>30</b>	1241.291	1145.999	1146.680	1236.492	1191.532	1053.339	1078.021	1219.866	1233.121	1141.122
<b>35</b>	789.891	618.494	606.462	719.496	662.073	522.420	544.779	705.105	710.149	611.364
<b>40</b>	408.168	284.221	289.428	336.238	309.259	254.995	262.440	330.029	338.897	296.393
<b>45</b>	192.171	132.200	140.278	156.556	139.259	121.193	127.017	144.650	161.348	147.340
<b>50</b>	85.854	59.101	64.069	67.060	56.760	42.874	45.057	63.789	75.278	69.328
<b>55</b>	39.072	23.440	23.571	25.437	19.309	8.728	11.357	23.073	32.113	28.951
<b>60</b>	17.506	9.841	7.740	7.343	5.695	4.650	5.361	9.672	13.314	12.557
<b>65</b>	7.457	5.208	4.549	2.872	2.573	4.043	5.716	5.168	6.667	7.948
<b>70</b>	3.271	4.117	3.246	2.158	1.907	4.982	6.088	5.422	5.251	6.850
<b>75</b>	2.157	2.654	1.764	1.566	1.508	4.801	5.761	6.154	5.739	7.869
<b>80</b>	1.406	1.168	1.258	1.168	1.556	5.979	6.511	7.198	6.767	6.264
<b>85</b>	1.147	1.516	1.517	1.562	1.815	7.871	7.348	7.410	8.797	7.732
<b>90</b>	1.217	1.211	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<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>	2524.629	2524.629	2524.629	2524.629	2524.629	2524.629	2524.629
<b>5</b>	2469.703	2492.707	2471.323	2453.690	2458.814	2480.917	2484.138
<b>10</b>	2347.908	2375.189	2329.626	2299.876	2309.495	2350.089	2366.449
<b>15</b>	2155.547	2177.296	2128.809	2110.605	2123.943	2149.080	2167.693
<b>20</b>	1921.885	1925.658	1897.797	1903.882	1915.682	1921.919	1920.061
<b>25</b>	1623.766	1627.492	1608.783	1573.423	1580.996	1636.663	1625.634
<b>30</b>	1164.258	1243.860	1202.177	1113.086	1115.152	1229.788	1241.291
<b>35</b>	645.013	803.111	761.256	642.205	652.132	781.866	789.891
<b>40</b>	302.091	434.902	421.642	297.989	314.142	429.089	408.168
<b>45</b>	142.722	214.691	215.729	134.680	140.334	223.240	192.171
<b>50</b>	68.248	103.143	105.033	69.996	71.810	108.704	85.854
<b>55</b>	29.540	50.193	52.215	32.232	32.611	49.846	39.072
<b>60</b>	13.561	25.729	26.023	14.377	12.414	23.131	17.506

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<b>65</b>	9.332	12.724	15.008	6.607	7.261	8.872	7.457
<b>70</b>	8.607	10.241	8.252	4.005	3.537	4.798	3.271
<b>75</b>	6.760	7.647	7.171	2.023	2.217	2.263	2.157
<b>80</b>	6.988	7.617	7.768	1.666	1.695	1.553	1.406
<b>85</b>	7.323	8.244	8.410	1.368	1.455	1.626	1.147
<b>90</b>	11.689	10.560	10.338	1.435	1.516	1.126	1.217
<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	846.47	N.A.	38.30
0-30	1581.64	N.A.	71.60
0-40	2021.18	N.A.	91.50
0-60	2190.77	N.A.	99.20
0-80	2203.44	N.A.	99.80
0-90	2207.8	N.A.	100.00
10-90	1974.13	N.A.	89.40
20-40	1174.7	N.A.	53.20
20-50	1312.07	N.A.	59.40
40-70	177.55	N.A.	8.00
60-80	12.67	N.A.	0.60
70-80	4.71	N.A.	0.20
80-90	4.36	N.A.	0.20
90-110	0.67	N.A.	0.00
90-120	0.67	N.A.	0.00
90-130	0.67	N.A.	0.00
90-150	0.67	N.A.	0.00
90-180	0.67	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	2208.47	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	233.67
10-20	612.80
20-30	735.17
30-40	439.53
40-50	137.36
50-60	32.23
60-70	7.96
70-80	4.71
80-90	4.36
90-100	0.67
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

# IES INDOOR REPORT

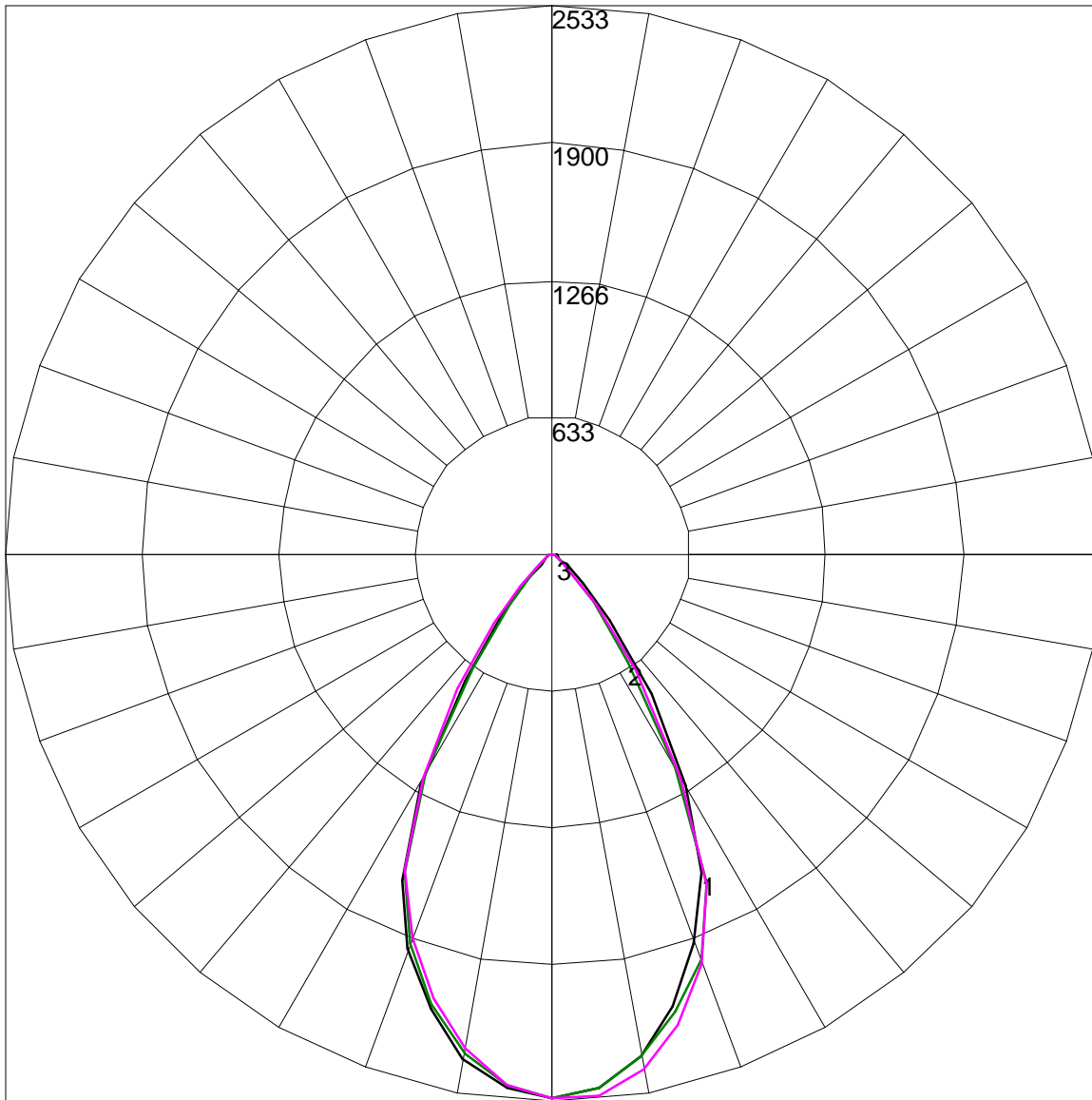
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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	83	87	85	82	81
4	97	90	84	80	95	88	83	79	86	82	78	84	81	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

POLAR GRAPH



Maximum Candela = 2532.877 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)