

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00611\_14 ~ C08XXSQXT-10LXXK-XWEX-TSG-NL.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] SP-00611\_14\_M-10L  
[TESTLAB] VLS-245-981  
[MANUFAC] Spectrum Lighting  
[ISSUE DATE] 6/29/2017  
[UPDATE] 2/2/2018  
[LUMCAT] C08xxSQXT-10L-xxK-XW-EX-TSG-NL  
[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] No Lens  
[OTHER] 62.4 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	849
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	93
Total Luminaire Watts	9.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.98
Spacing Criterion (90-270)	0.96
Spacing Criterion (Diagonal)	0.88
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\_14 ~ C08XXSQXT-10LXXK-XWEX-TSG-NL.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2426	1994	2229
55	465	162	336
65	82	83	71
75	111	109	112
85	335	248	317

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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	977.240	977.240	977.240	977.240	977.240	977.240	977.240	977.240	977.240	977.240
5	959.302	954.620	954.787	961.492	969.194	964.286	968.843	964.632	966.725	970.054
10	910.552	905.789	908.314	915.294	927.360	924.061	930.251	925.893	927.239	932.229
15	838.100	840.915	854.685	845.784	859.036	860.122	868.187	858.607	857.931	869.348
20	754.309	799.772	801.435	773.762	764.716	777.237	784.845	768.098	759.275	786.225
25	686.206	700.720	691.060	705.460	676.153	695.646	703.096	674.953	662.899	696.309
30	552.106	498.855	468.507	539.359	561.847	508.862	506.283	538.799	544.329	499.362
35	323.895	178.348	209.794	306.881	334.328	201.107	178.529	284.364	328.017	198.102
40	121.276	71.433	72.574	98.536	92.610	77.458	81.077	89.932	96.602	87.209
45	39.878	33.493	32.771	34.679	36.649	35.682	37.116	37.847	37.296	41.204
50	19.056	10.435	10.073	14.048	16.281	11.307	12.195	15.431	14.824	11.931
55	6.196	2.292	2.157	3.196	4.478	2.709	3.064	4.757	3.399	2.006
60	1.232	1.157	0.911	0.880	1.218	1.658	1.918	1.868	1.321	1.165
65	0.801	0.896	0.818	0.665	0.699	1.612	1.882	1.608	1.374	1.458
70	0.589	0.518	0.844	0.598	0.599	1.674	1.894	1.938	1.704	1.809
75	0.669	0.587	0.655	0.559	0.673	2.340	2.244	2.435	2.212	1.911
80	0.554	0.674	0.654	0.512	0.686	3.633	2.910	3.058	2.932	2.664
85	0.679	0.530	0.502	0.411	0.643	3.696	4.301	3.864	3.866	3.385
90	0.547	0.000	0.000	0.000	0.526	4.837	0.000	0.000	0.000	4.770
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	977.240	977.240	977.240	977.240	977.240	977.240	977.240
5	968.437	965.525	959.230	949.977	951.450	952.873	959.302
10	930.090	921.547	907.200	897.099	897.116	903.445	910.552
15	865.105	848.946	827.018	823.638	822.080	824.894	838.100
20	781.239	750.346	728.453	774.573	765.200	738.137	754.309
25	693.537	659.832	659.262	702.216	693.634	668.469	686.206
30	470.776	535.440	560.506	508.768	505.756	537.279	552.106
35	191.565	304.293	340.407	160.811	181.784	318.249	323.895
40	93.186	93.733	120.029	74.771	71.495	106.151	121.276
45	42.952	45.382	41.317	35.778	34.784	39.240	39.878
50	10.417	18.118	18.337	10.406	11.474	17.211	19.056
55	1.905	4.152	4.909	2.145	2.322	4.123	6.196
60	1.337	1.352	1.443	1.087	1.097	1.300	1.232

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<b>65</b>	1.563	1.271	1.261	0.827	0.824	0.977	0.801
<b>70</b>	1.713	1.508	1.588	0.703	0.809	0.551	0.589
<b>75</b>	2.010	2.153	2.324	0.693	0.767	0.807	0.669
<b>80</b>	2.902	2.874	2.676	0.646	0.688	0.595	0.554
<b>85</b>	3.707	3.231	3.569	0.659	0.501	0.652	0.679
<b>90</b>	4.817	4.363	0.000	0.000	0.560	0.649	0.547
<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	328.27	N.A.	38.70
0-30	633.55	N.A.	74.60
0-40	804.70	N.A.	94.80
0-60	843.75	N.A.	99.40
0-80	846.49	N.A.	99.70
0-90	848.51	N.A.	100.00
10-90	758.16	N.A.	89.30
20-40	476.43	N.A.	56.10
20-50	510.66	N.A.	60.20
40-70	40.24	N.A.	4.70
60-80	2.75	N.A.	0.30
70-80	1.55	N.A.	0.20
80-90	2.01	N.A.	0.20
90-110	0.36	N.A.	0.00
90-120	0.36	N.A.	0.00
90-130	0.36	N.A.	0.00
90-150	0.36	N.A.	0.00
90-180	0.36	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	848.87	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	90.35
10-20	237.92
20-30	305.29
30-40	171.15
40-50	34.22
50-60	4.82
60-70	1.19
70-80	1.55
80-90	2.01
90-100	0.36
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

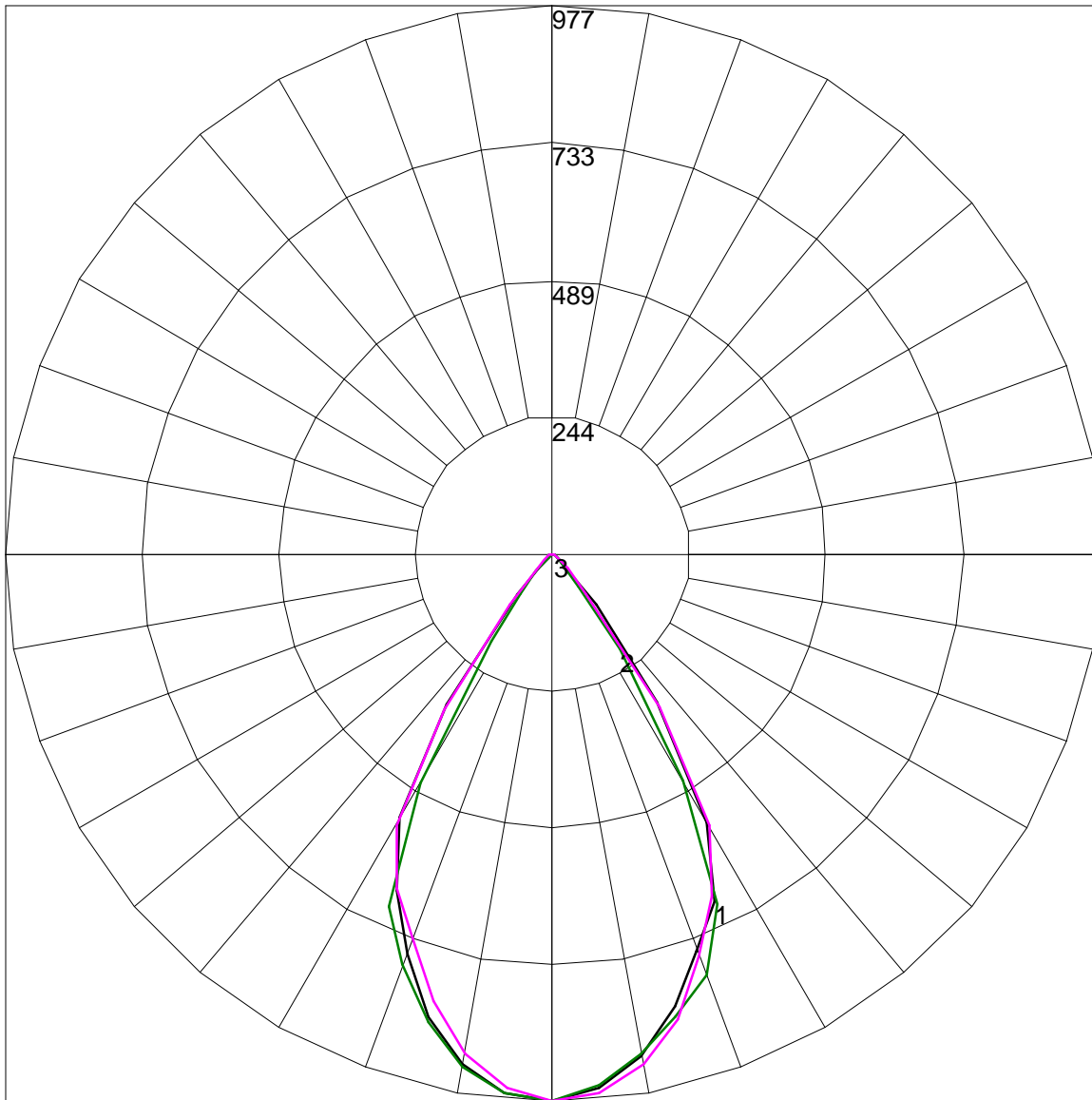
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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	114	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	94
2	108	103	99	96	106	102	98	95	98	95	93	95	93	91	93	91	89	87
3	103	96	92	88	101	95	91	87	92	89	86	90	87	84	88	85	83	81
4	98	90	85	81	96	89	84	80	87	83	79	85	81	78	83	80	78	76
5	93	85	79	75	91	84	78	74	82	77	74	80	76	73	79	75	72	71
6	88	80	74	70	87	79	73	69	77	72	69	76	72	68	75	71	68	67
7	84	75	69	65	83	74	69	65	73	68	64	72	67	64	71	67	64	62
8	80	71	65	61	79	70	65	61	69	64	60	68	63	60	67	63	60	59
9	76	67	61	57	75	66	61	57	65	60	57	65	60	57	64	59	56	55
10	73	63	58	54	72	63	57	54	62	57	54	61	57	53	61	56	53	52

POLAR GRAPH



Maximum Candela = 977.24 Located At Horizontal Angle = 0, Vertical Angle = 0

- # 1 - Vertical Plane Through Horizontal Angles (0 - 180)
- # 2 - Vertical Plane Through Horizontal Angles (45 - 225)
- # 3 - Vertical Plane Through Horizontal Angles (90 - 270)