

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : SP-00571\_15 ~ C0612BX-80L35K-WDEX-SCB-NL.IES**
**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-005671\_15\_M-80L

[TESTLAB] VLS-245-981

[MANUFAC] Spectrum Lighting

[ISSUE DATE] 1/12/2018

[UPDATE] 2/19/2018

[LUMCAT] C0612BX-80L-35K-WD-EX-SCB-NL

[LUMINAIRE] Nom. 6" Diam. x 12" H. LED Cylinder Downlight BX Series, Wide Beam

[OTHER] Upper, Internal Reflector, No lens

[OTHER] Lower Trim, SCB: Smooth Charcoal color Baffle

[OTHER] Lower Ring (Endcap trim): Matte Black finish

[OTHER] 55 Degree Beam Angle

[LAMPCAT] N/A, Min. 80 CRI

[LAMP] N/A, Bridgelux Vero 29

[OTHER] Total Luminaire Watts is approximate

[OTHER] CCT Output Multipliers: 65K x 1.08, 57K x 1.06, 50K x 1.04, 40K x 1.01

[OTHER] CCT Output Multipliers: 30K x 1.00, 27K x 0.932

[OTHER] This report prepared by Spectrum Lighting, scaled from 60L-35K

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6118
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	109
Total Luminaire Watts	56
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.82
Spacing Criterion (90-270)	0.82
Spacing Criterion (Diagonal)	0.86
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.50 ft (Diameter)
Luminous Width (90-270)	0.50 ft (Diameter)
Luminous Height	0.00 ft

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00571\_15 ~ C0612BX-80L35K-WDEX-SCB-NL.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	18015	16700	15020
55	884	933	834
65	384	417	476
75	491	432	591
85	1779	1698	1740

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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	8223.625	8223.625	8223.625	8223.625	8223.625	8223.625	8223.625	8223.625	8223.625	8223.625
5	8000.572	7954.418	8006.905	7943.840	7964.915	7969.783	7938.864	7966.493	7961.085	7958.781
10	7390.440	7326.804	7399.725	7316.539	7344.146	7346.444	7321.520	7359.126	7355.581	7359.693
15	6544.086	6472.499	6525.233	6454.765	6488.712	6480.576	6458.945	6488.728	6469.164	6507.361
20	5584.599	5526.720	5546.194	5506.384	5533.632	5523.077	5506.256	5547.072	5508.294	5577.338
25	4688.524	4638.760	4689.851	4621.315	4641.949	4639.639	4633.439	4697.598	4666.914	4725.625
30	3541.028	3424.114	3607.985	3426.308	3515.968	3567.515	3523.427	3648.705	3625.857	3606.966
35	1832.200	1794.792	1841.696	1789.962	1841.978	1870.094	1879.196	1919.016	1888.616	1938.696
40	644.473	658.828	601.199	626.673	591.207	572.041	600.448	591.243	571.037	691.720
45	232.592	226.644	215.613	202.125	193.924	185.096	182.941	186.237	188.599	219.383
50	54.626	58.098	49.805	51.389	45.116	42.542	40.730	38.743	37.913	55.542
55	9.255	12.042	9.776	11.488	8.736	9.017	9.189	6.835	6.340	10.973
60	4.728	5.452	5.317	5.681	4.034	5.143	5.328	3.813	3.427	4.522
65	2.965	3.695	3.216	4.702	3.675	3.391	2.755	2.864	2.919	2.746
70	3.095	2.834	2.142	2.797	3.757	3.601	2.926	4.224	2.962	2.888
75	2.318	2.763	2.042	2.524	2.792	2.896	3.074	2.290	2.722	2.604
80	1.713	2.025	2.827	2.361	3.049	2.244	3.366	3.433	3.172	3.010
85	2.831	2.401	2.702	2.319	2.769	2.715	3.444	3.238	3.667	4.860
90	3.190	2.616	3.143	2.800	2.934	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	8223.625	8223.625	8223.625	8223.625	8223.625	8223.625	8223.625
5	7953.890	7972.415	7974.837	7987.295	7978.748	7962.455	8000.572
10	7332.864	7377.991	7378.037	7384.664	7395.096	7346.393	7390.440
15	6467.544	6518.070	6515.342	6521.862	6551.275	6516.167	6544.086
20	5509.408	5570.251	5549.107	5551.704	5599.241	5579.896	5584.599
25	4645.744	4719.128	4723.289	4710.061	4760.221	4671.343	4688.524
30	3550.339	3578.980	3615.631	3596.767	3587.571	3468.428	3541.028
35	1865.831	1929.637	1848.540	1847.062	1821.043	1809.149	1832.200
40	619.014	729.052	628.047	639.205	638.341	657.864	644.473
45	214.299	245.991	227.931	232.661	232.674	236.915	232.592

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**CANDELA TABULATION - (Cont.)**

<b>50</b>	49.270	61.963	47.294	53.944	49.549	56.206	54.626
<b>55</b>	10.019	11.913	11.080	10.997	9.406	9.064	9.255
<b>60</b>	4.134	4.539	4.357	3.955	4.933	4.609	4.728
<b>65</b>	3.066	4.058	3.201	2.932	3.016	2.805	2.965
<b>70</b>	2.942	2.874	3.482	2.957	2.526	2.247	3.095
<b>75</b>	2.637	3.052	3.618	2.727	2.647	1.690	2.318
<b>80</b>	3.400	2.820	3.395	2.686	2.541	2.705	1.713
<b>85</b>	3.510	3.447	3.645	2.018	2.261	1.959	2.831
<b>90</b>	0.000	0.000	0.000	2.435	2.657	3.011	3.190
<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

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00571\_15 ~ C0612BX-80L35K-WDEX-SCB-NL.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	2556.44	N.A.	41.80
0-30	4670.94	N.A.	76.30
0-40	5882.79	N.A.	96.20
0-60	6108.3	N.A.	99.80
0-80	6114.73	N.A.	99.90
0-90	6117.51	N.A.	100.00
10-90	5375.65	N.A.	87.90
20-40	3326.35	N.A.	54.40
20-50	3535.64	N.A.	57.80
40-70	229.01	N.A.	3.70
60-80	6.44	N.A.	0.10
70-80	2.94	N.A.	0.00
80-90	2.78	N.A.	0.00
90-110	0.39	N.A.	0.00
90-120	0.39	N.A.	0.00
90-130	0.39	N.A.	0.00
90-150	0.39	N.A.	0.00
90-180	0.39	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	6117.9	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	741.86
10-20	1814.57
20-30	2114.5
30-40	1211.85
40-50	209.29
50-60	16.22
60-70	3.50
70-80	2.94
80-90	2.78
90-100	0.39
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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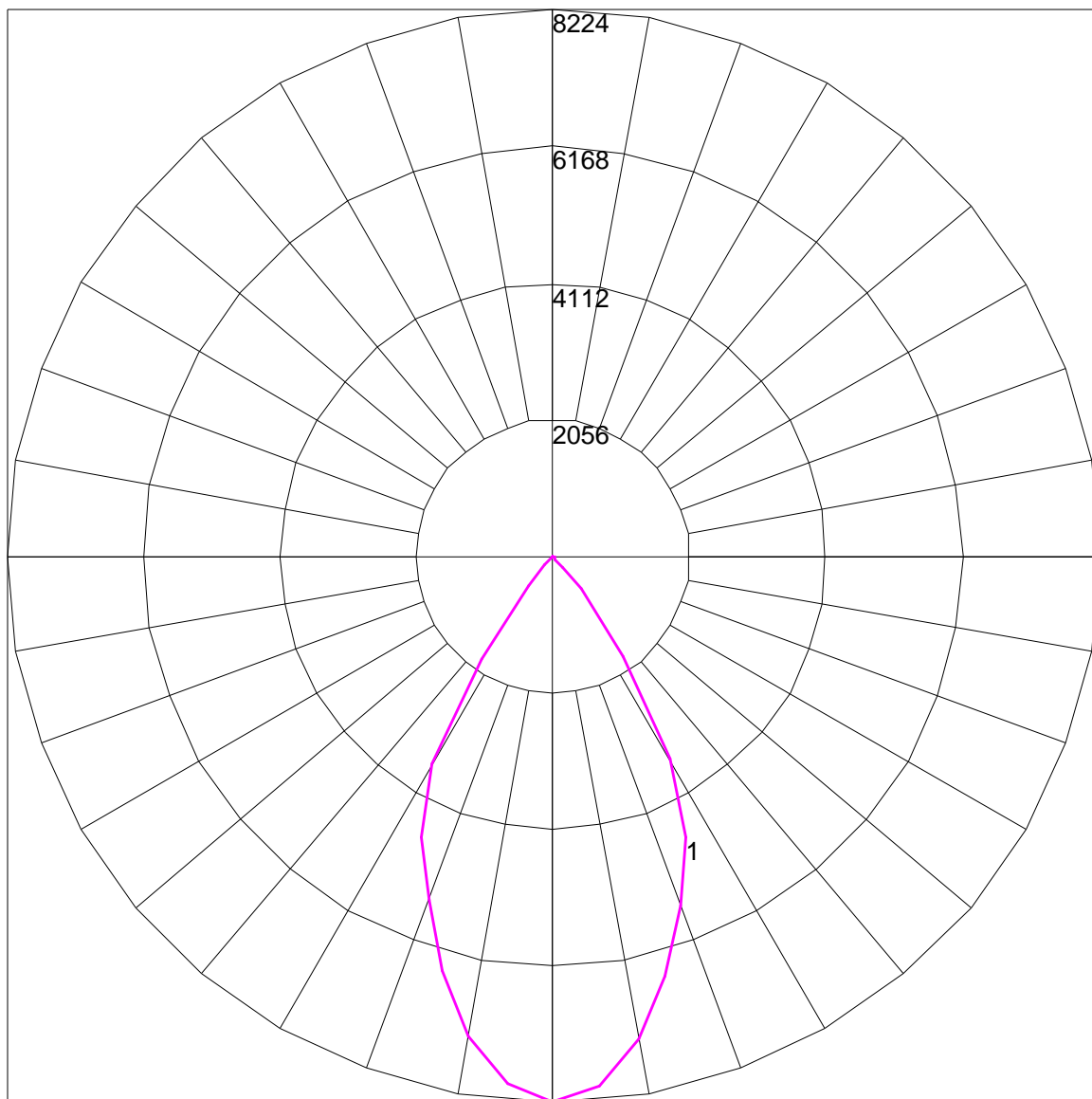
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94
2	108	104	100	97	106	102	99	96	99	96	94	96	94	92	93	91	90	88
3	103	97	92	89	101	96	91	88	93	90	87	91	88	85	89	86	84	82
4	98	91	86	82	97	90	85	81	88	84	80	86	82	80	84	81	79	77
5	94	86	80	76	92	85	80	76	83	79	75	81	78	74	80	77	74	72
6	89	81	75	71	88	80	75	71	79	74	70	77	73	70	76	72	69	68
7	85	76	71	66	84	76	70	66	74	69	66	73	69	66	72	68	65	64
8	81	72	66	62	80	72	66	62	70	66	62	69	65	62	68	65	62	60
9	78	68	63	59	76	68	62	59	67	62	58	66	62	58	65	61	58	57
10	74	65	59	56	73	64	59	55	64	59	55	63	58	55	62	58	55	54

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POLAR GRAPH



Maximum Candela = 8223.625 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)