

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : SP-00571\_14 ~ C0612BX-80L35K-MDEX-SCB-NL.IES**
**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] SP-005671\_14\_M-80L  
 [TESTLAB] VLS-245-981  
 [MANUFAC] Spectrum Lighting  
 [ISSUEDATE] 1/12/2018  
 [UPDATE] 2/19/2018  
 [LUMCAT] C0612BX-80L-35K-MD-EX-SCB-NL  
 [LUMINAIRE] Nom. 6" Diam. x 12" H. LED Cylinder Downlight BX Series, Medium Beam  
 [OTHER] Upper, Internal Reflector, No lens  
 [OTHER] Lower Trim, SCB: Smooth Charcoal colored baffle  
 [OTHER] Lower Ring (Endcap Trim): Matte Black finish  
 [OTHER] 40 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	6081
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)	0.66
Spacing Criterion (90-270)	0.66
Spacing Criterion (Diagonal)	0.66
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\_14 ~ C0612BX-80L35K-MDEX-SCB-NL.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	419	522	451
55	320	330	322
65	247	323	449
75	411	557	371
85	1755	1483	1245

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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	12725.080	12725.080	12725.080	12725.080	12725.080	12725.080	12725.080	12725.080	12725.080	12725.080
5	12363.840	12305.170	12402.580	12305.510	12387.360	12377.980	12310.670	12356.220	12357.940	12355.290
10	11073.630	11030.520	11129.530	11058.950	11148.480	11151.910	11058.750	11111.200	11127.670	11140.390
15	8980.028	8944.347	9020.542	8977.299	9008.928	9020.853	8935.075	8997.049	9008.599	9050.594
20	6326.540	6396.465	6418.775	6405.930	6361.903	6312.560	6289.743	6288.608	6328.549	6397.784
25	3944.936	4058.769	4030.499	4040.597	3938.640	3885.680	3926.576	3924.582	3894.866	3982.265
30	2305.293	2362.411	2389.560	2311.560	2278.254	2253.942	2226.741	2219.687	2179.324	2181.862
35	803.319	906.402	880.934	880.781	837.902	777.458	832.582	761.563	749.406	688.880
40	36.447	107.049	59.879	104.097	60.143	26.385	101.567	69.328	47.383	54.513
45	5.405	5.012	6.741	6.096	5.829	6.823	5.717	5.143	7.775	7.450
50	4.625	4.553	4.711	5.106	4.797	5.650	4.319	3.453	4.191	5.099
55	3.349	3.469	3.461	4.055	3.370	5.273	4.662	4.273	3.392	3.740
60	2.587	3.044	3.337	2.286	3.870	3.040	4.283	4.043	3.047	4.097
65	1.903	2.698	2.495	2.926	3.462	2.856	3.627	2.987	2.599	2.913
70	2.577	2.094	3.233	2.926	1.795	2.030	2.585	3.169	2.625	3.061
75	1.944	1.720	2.633	2.129	1.753	2.693	2.302	1.535	2.292	2.031
80	2.870	2.394	2.587	1.830	2.653	2.133	3.379	2.503	2.332	2.672
85	2.793	1.022	2.360	1.700	1.981	2.728	1.720	2.389	2.788	3.039
90	2.397	1.893	3.073	1.698	1.828	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. 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	12725.080	12725.080	12725.080	12725.080	12725.080	12725.080	12725.080
5	12407.890	12359.680	12412.870	12346.590	12324.480	12299.180	12363.840
10	11180.460	11118.810	11157.800	11064.030	11037.540	11006.730	11073.630
15	9075.417	9039.639	9033.283	8931.974	8923.983	8890.344	8980.028
20	6419.629	6406.996	6362.330	6317.304	6288.610	6295.009	6326.540
25	3970.275	4038.648	3955.110	3936.874	3974.915	3944.015	3944.936
30	2202.670	2227.207	2248.760	2224.042	2204.401	2221.807	2305.293
35	705.279	719.034	723.628	784.855	769.142	821.329	803.319
40	27.857	63.245	30.722	62.744	94.538	92.488	36.447
45	8.430	6.521	6.171	4.901	7.698	6.905	5.405

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CANDELA TABULATION - (Cont.)

50	3.982	7.961	3.069	4.891	4.789	4.913	4.625
55	2.909	4.906	3.109	4.460	5.194	2.866	3.349
60	3.287	2.905	3.349	3.759	3.637	2.900	2.587
65	2.775	3.150	3.507	2.860	4.287	2.666	1.903
70	2.412	1.981	3.664	2.513	2.637	2.241	2.577
75	2.400	2.116	1.580	2.014	2.277	2.284	1.944
80	3.109	2.046	2.599	3.010	2.434	2.820	2.870
85	2.373	2.248	3.258	2.037	1.781	2.682	2.793
90	0.000	0.000	0.000	1.967	2.043	2.121	2.397
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

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00571\_14 ~ C0612BX-80L35K-MDEX-SCB-NL.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	3594.87	N.A.	59.10
0-30	5463.75	N.A.	89.80
0-40	6054.43	N.A.	99.60
0-60	6073.45	N.A.	99.90
0-80	6078.89	N.A.	100.00
0-90	6081.14	N.A.	100.00
10-90	4942.29	N.A.	81.30
20-40	2459.57	N.A.	40.40
20-50	2475.03	N.A.	40.70
40-70	21.97	N.A.	0.40
60-80	5.43	N.A.	0.10
70-80	2.48	N.A.	0.00
80-90	2.25	N.A.	0.00
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	6081.43	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	1138.86
10-20	2456.01
20-30	1868.88
30-40	590.69
40-50	15.46
50-60	3.56
60-70	2.95
70-80	2.48
80-90	2.25
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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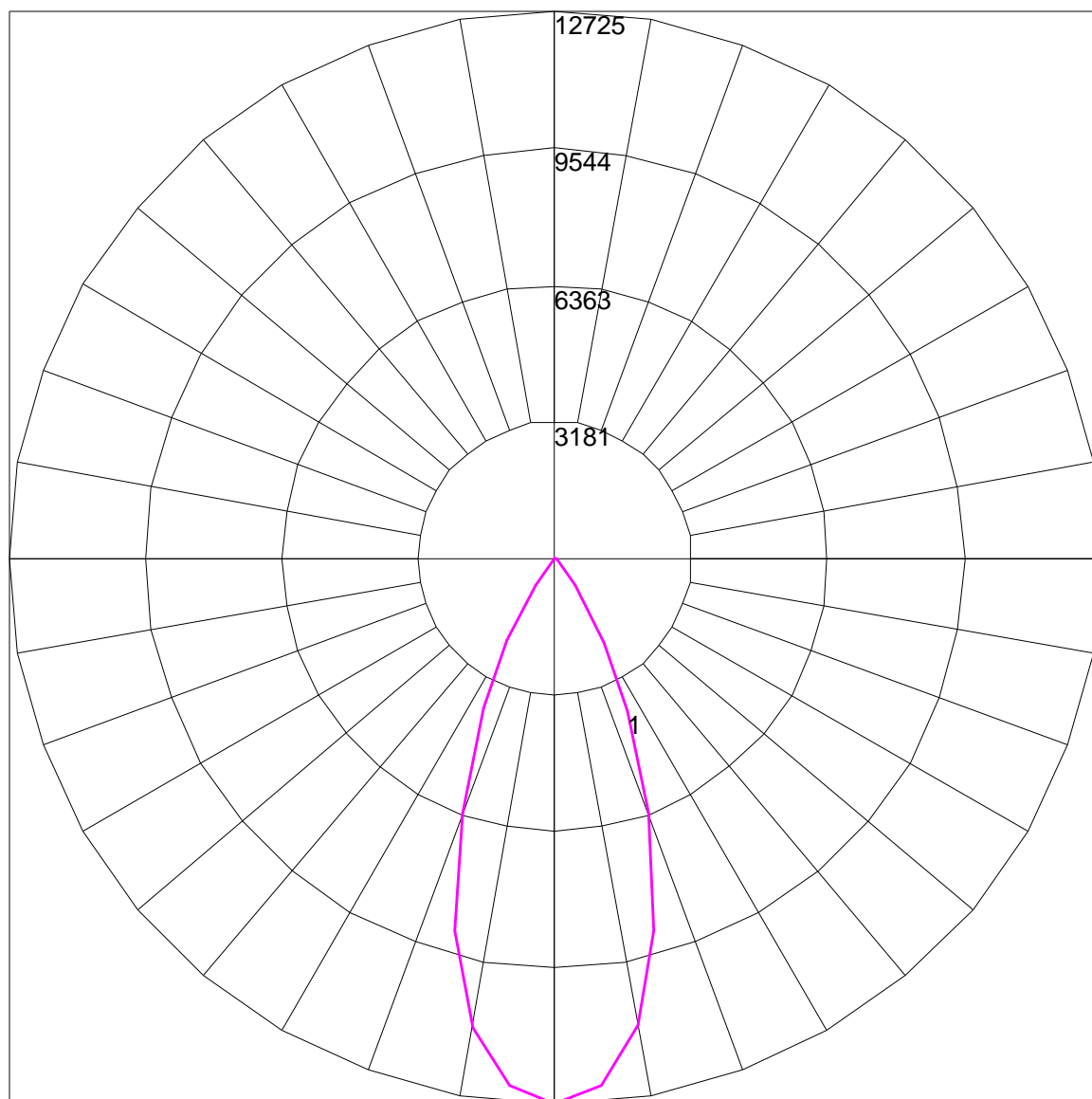
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95
2	110	106	102	99	108	104	101	98	101	98	96	98	96	94	95	94	92	91
3	105	100	96	93	104	99	95	92	96	93	90	94	91	89	92	90	88	86
4	101	95	90	87	100	94	90	86	92	88	85	90	87	84	88	86	83	82
5	97	90	86	82	96	90	85	82	88	84	81	86	83	80	85	82	80	78
6	94	86	81	78	92	85	81	77	84	80	77	83	79	76	82	78	76	75
7	90	82	77	74	89	82	77	74	81	76	73	79	76	73	78	75	73	71
8	87	79	74	70	86	78	74	70	77	73	70	76	72	70	75	72	69	68
9	84	75	71	67	83	75	70	67	74	70	67	73	69	67	73	69	66	65
10	80	72	68	64	80	72	67	64	71	67	64	71	67	64	70	66	64	63

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POLAR GRAPH



Maximum Candela = 12725.08 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)