

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00571_14 ~ C0612BX-60L35K-MDEX-SCB-NL.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] SP-005671_14
[TESTLAB] VLS-245-981
[MANUFAC] Spectrum Lighting
[ISSUE DATE] 2/20/2018
[UPDATE] 2/22/2018
[LUMCAT] C0612BX-60L-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

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4607
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	121
Total Luminaire Watts	38
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

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Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	317	396	342
55	242	250	244
65	187	245	340
75	312	422	281
85	1330	1124	943

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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	9640.208	9640.208	9640.208	9640.208	9640.208	9640.208	9640.208	9640.208	9640.208	9640.208
5	9366.544	9322.098	9395.895	9322.354	9384.366	9377.257	9326.265	9360.775	9362.076	9360.069
10	8389.114	8356.452	8431.464	8377.992	8445.819	8448.415	8377.844	8417.572	8430.056	8439.692
15	6803.051	6776.020	6833.744	6800.984	6824.945	6833.979	6768.996	6815.946	6824.696	6856.510
20	4792.833	4845.807	4862.708	4852.977	4819.623	4782.242	4764.957	4764.097	4794.355	4846.806
25	2988.588	3074.825	3053.408	3061.058	2983.818	2943.697	2974.679	2973.168	2950.656	3016.867
30	1746.434	1789.705	1810.273	1751.182	1725.950	1707.532	1686.925	1681.581	1651.003	1652.926
35	608.575	686.668	667.374	667.258	634.774	588.983	630.744	576.942	567.732	521.879
40	27.611	81.098	45.363	78.861	45.563	19.989	76.945	52.521	35.896	41.298
45	4.095	3.797	5.107	4.618	4.416	5.169	4.331	3.896	5.890	5.644
50	3.504	3.449	3.569	3.868	3.634	4.280	3.272	2.616	3.175	3.863
55	2.537	2.628	2.622	3.072	2.553	3.995	3.532	3.237	2.570	2.833
60	1.960	2.306	2.528	1.732	2.932	2.303	3.245	3.063	2.308	3.104
65	1.442	2.044	1.890	2.217	2.623	2.164	2.748	2.263	1.969	2.207
70	1.952	1.586	2.449	2.217	1.360	1.538	1.958	2.401	1.989	2.319
75	1.473	1.303	1.995	1.613	1.328	2.040	1.744	1.163	1.736	1.539
80	2.174	1.814	1.960	1.386	2.010	1.616	2.560	1.896	1.767	2.024
85	2.116	0.774	1.788	1.288	1.501	2.067	1.303	1.810	2.112	2.302
90	1.816	1.434	2.328	1.286	1.385	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	9640.208	9640.208	9640.208	9640.208	9640.208	9640.208	9640.208
5	9399.916	9363.396	9403.687	9353.475	9336.728	9317.558	9366.544
10	8470.042	8423.338	8452.882	8381.838	8361.775	8338.431	8389.114
15	6875.316	6848.211	6843.396	6766.647	6760.593	6735.109	6803.051
20	4863.355	4853.785	4819.947	4785.836	4764.098	4768.946	4792.833
25	3007.784	3059.582	2996.295	2982.480	3011.299	2987.890	2988.588
30	1668.689	1687.278	1703.606	1684.880	1670.001	1683.187	1746.434
35	534.302	544.723	548.203	594.587	582.683	622.219	608.575
40	21.104	47.913	23.274	47.533	71.620	70.067	27.611
45	6.386	4.940	4.675	3.713	5.832	5.231	4.095

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CANDELA TABULATION - (Cont.)

50	3.017	6.031	2.325	3.705	3.628	3.722	3.504
55	2.204	3.717	2.355	3.379	3.935	2.171	2.537
60	2.490	2.201	2.537	2.848	2.755	2.197	1.960
65	2.102	2.386	2.657	2.167	3.248	2.020	1.442
70	1.827	1.501	2.776	1.904	1.998	1.698	1.952
75	1.818	1.603	1.197	1.526	1.725	1.730	1.473
80	2.355	1.550	1.969	2.280	1.844	2.136	2.174
85	1.798	1.703	2.468	1.543	1.349	2.032	2.116
90	0.000	0.000	0.000	1.490	1.548	1.607	1.816
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

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Zone	Lumens	%Lamp	%Fixt
0-20	2723.38	N.A.	59.10
0-30	4139.2	N.A.	89.80
0-40	4586.69	N.A.	99.60
0-60	4601.1	N.A.	99.90
0-80	4605.22	N.A.	100.00
0-90	4606.92	N.A.	100.00
10-90	3744.16	N.A.	81.30
20-40	1863.31	N.A.	40.40
20-50	1875.02	N.A.	40.70
40-70	16.64	N.A.	0.40
60-80	4.12	N.A.	0.10
70-80	1.88	N.A.	0.00
80-90	1.71	N.A.	0.00
90-110	0.22	N.A.	0.00
90-120	0.22	N.A.	0.00
90-130	0.22	N.A.	0.00
90-150	0.22	N.A.	0.00
90-180	0.22	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	4607.15	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	862.77
10-20	1860.61
20-30	1415.82
30-40	447.49
40-50	11.71
50-60	2.70
60-70	2.23
70-80	1.88
80-90	1.71
90-100	0.22
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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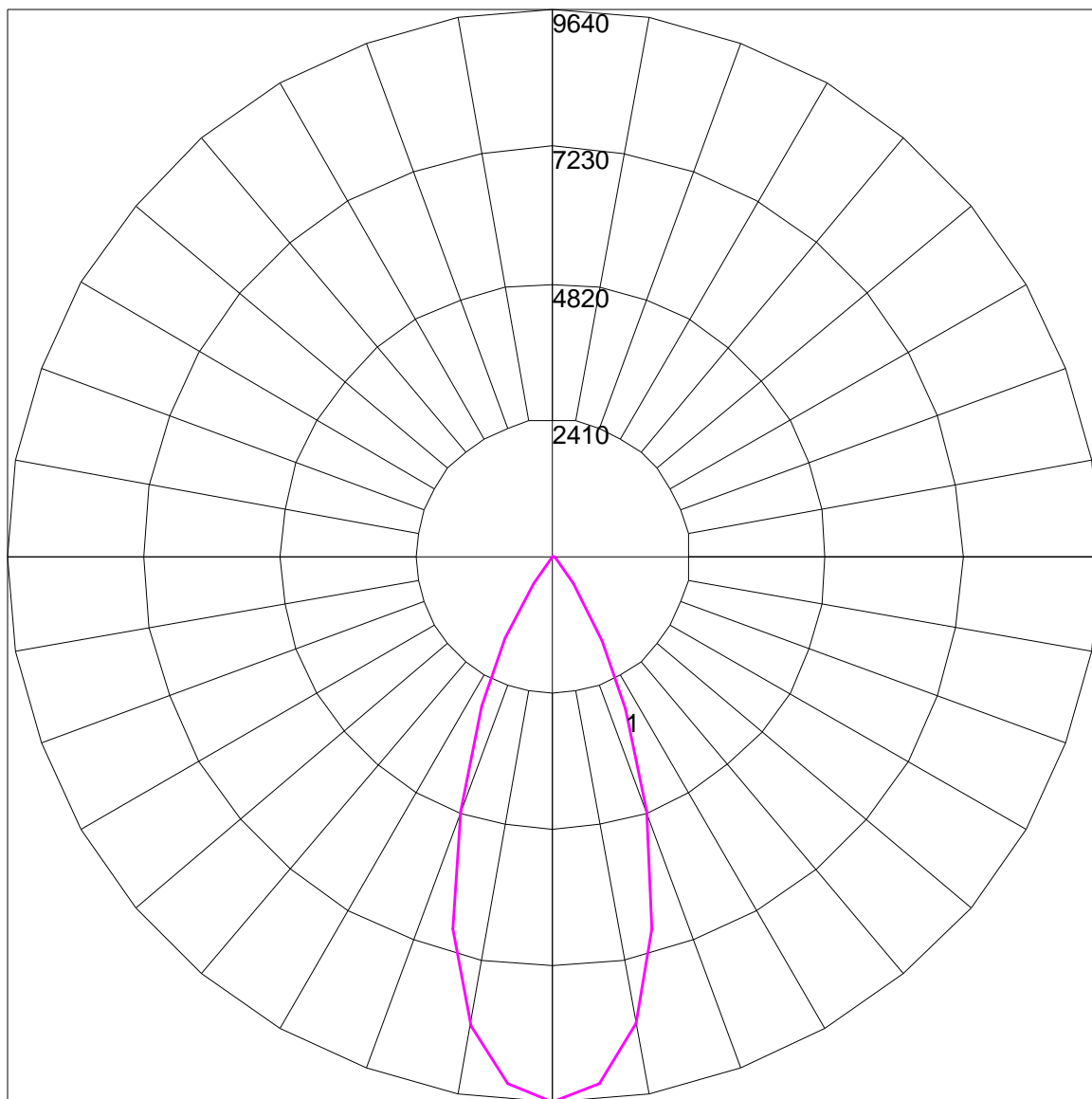
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	83	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 = 9640.208 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180)