

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00571\_15 ~ C0612BX-60L35K-WDEX-SCB-NL.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-005671\_15

[TESTLAB] VLS-245-981

[MANUFAC] Spectrum Lighting

[ISSUE DATE] 2/20/2018

[UPDATE] 2/22/2018

[LUMCAT] C0612BX-60L-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

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4635
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	122
Total Luminaire Watts	38
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-60L35K-WDEX-SCB-NL.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	13648	12652	11379
55	669	707	632
65	291	316	361
75	372	327	448
85	1348	1286	1318

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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	6230.019	6230.019	6230.019	6230.019	6230.019	6230.019	6230.019	6230.019	6230.019	6230.019
5	6061.039	6026.074	6065.837	6018.060	6034.026	6037.714	6014.291	6035.222	6031.125	6029.379
10	5598.818	5550.609	5605.852	5542.832	5563.747	5565.488	5546.606	5575.095	5572.410	5575.525
15	4957.641	4903.408	4943.358	4889.973	4915.691	4909.527	4893.140	4915.703	4900.882	4929.819
20	4230.757	4186.909	4201.662	4171.503	4192.145	4184.149	4171.406	4202.327	4172.950	4225.256
25	3551.912	3514.212	3552.917	3500.996	3516.628	3514.878	3510.181	3558.786	3535.541	3580.019
30	2682.597	2594.026	2733.322	2595.688	2663.612	2702.663	2669.263	2764.170	2746.861	2732.550
35	1388.030	1359.691	1395.224	1356.032	1395.438	1416.738	1423.633	1453.800	1430.770	1468.709
40	488.237	499.112	455.454	474.752	447.884	433.364	454.885	447.911	432.604	524.030
45	176.206	171.700	163.343	153.125	146.912	140.224	138.592	141.089	142.878	166.199
50	41.383	44.014	37.731	38.931	34.179	32.229	30.856	29.351	28.722	42.077
55	7.011	9.123	7.406	8.703	6.618	6.831	6.961	5.178	4.803	8.313
60	3.582	4.130	4.028	4.304	3.056	3.896	4.036	2.889	2.596	3.426
65	2.246	2.799	2.436	3.562	2.784	2.569	2.087	2.170	2.211	2.080
70	2.345	2.147	1.623	2.119	2.846	2.728	2.217	3.200	2.244	2.188
75	1.756	2.093	1.547	1.912	2.115	2.194	2.329	1.735	2.062	1.973
80	1.298	1.534	2.142	1.789	2.310	1.700	2.550	2.601	2.403	2.280
85	2.145	1.819	2.047	1.757	2.098	2.057	2.609	2.453	2.778	3.682
90	2.417	1.982	2.381	2.121	2.223	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	6230.019	6230.019	6230.019	6230.019	6230.019	6230.019	6230.019
5	6025.674	6039.708	6041.543	6050.981	6044.506	6032.163	6061.039
10	5555.200	5589.387	5589.422	5594.442	5602.345	5565.449	5598.818
15	4899.654	4937.932	4935.865	4940.804	4963.087	4936.490	4957.641
20	4173.794	4219.887	4203.869	4205.836	4241.849	4227.194	4230.757
25	3519.503	3575.097	3578.249	3568.228	3606.228	3538.896	3551.912
30	2689.651	2711.348	2739.114	2724.823	2717.857	2627.597	2682.597
35	1413.508	1461.846	1400.409	1399.289	1379.578	1370.567	1388.030
40	468.950	552.312	475.793	484.246	483.592	498.382	488.237
45	162.348	186.357	172.675	176.258	176.268	179.481	176.206

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**CANDELA TABULATION - (Cont.)**

<b>50</b>	37.326	46.942	35.829	40.867	37.537	42.580	41.383
<b>55</b>	7.590	9.025	8.394	8.331	7.126	6.867	7.011
<b>60</b>	3.132	3.439	3.301	2.996	3.737	3.492	3.582
<b>65</b>	2.323	3.074	2.425	2.221	2.285	2.125	2.246
<b>70</b>	2.229	2.177	2.638	2.240	1.914	1.702	2.345
<b>75</b>	1.998	2.312	2.741	2.066	2.005	1.280	1.756
<b>80</b>	2.576	2.136	2.572	2.035	1.925	2.049	1.298
<b>85</b>	2.659	2.611	2.761	1.529	1.713	1.484	2.145
<b>90</b>	0.000	0.000	0.000	1.845	2.013	2.281	2.417
<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-60L35K-WDEX-SCB-NL.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1936.69	N.A.	41.80
0-30	3538.59	N.A.	76.30
0-40	4456.66	N.A.	96.20
0-60	4627.5	N.A.	99.80
0-80	4632.38	N.A.	99.90
0-90	4634.48	N.A.	100.00
10-90	4072.46	N.A.	87.90
20-40	2519.96	N.A.	54.40
20-50	2678.52	N.A.	57.80
40-70	173.49	N.A.	3.70
60-80	4.88	N.A.	0.10
70-80	2.23	N.A.	0.00
80-90	2.11	N.A.	0.00
90-110	0.30	N.A.	0.00
90-120	0.30	N.A.	0.00
90-130	0.30	N.A.	0.00
90-150	0.30	N.A.	0.00
90-180	0.30	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	4634.77	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	562.02
10-20	1374.68
20-30	1601.9
30-40	918.07
40-50	158.55
50-60	12.29
60-70	2.65
70-80	2.23
80-90	2.11
90-100	0.30
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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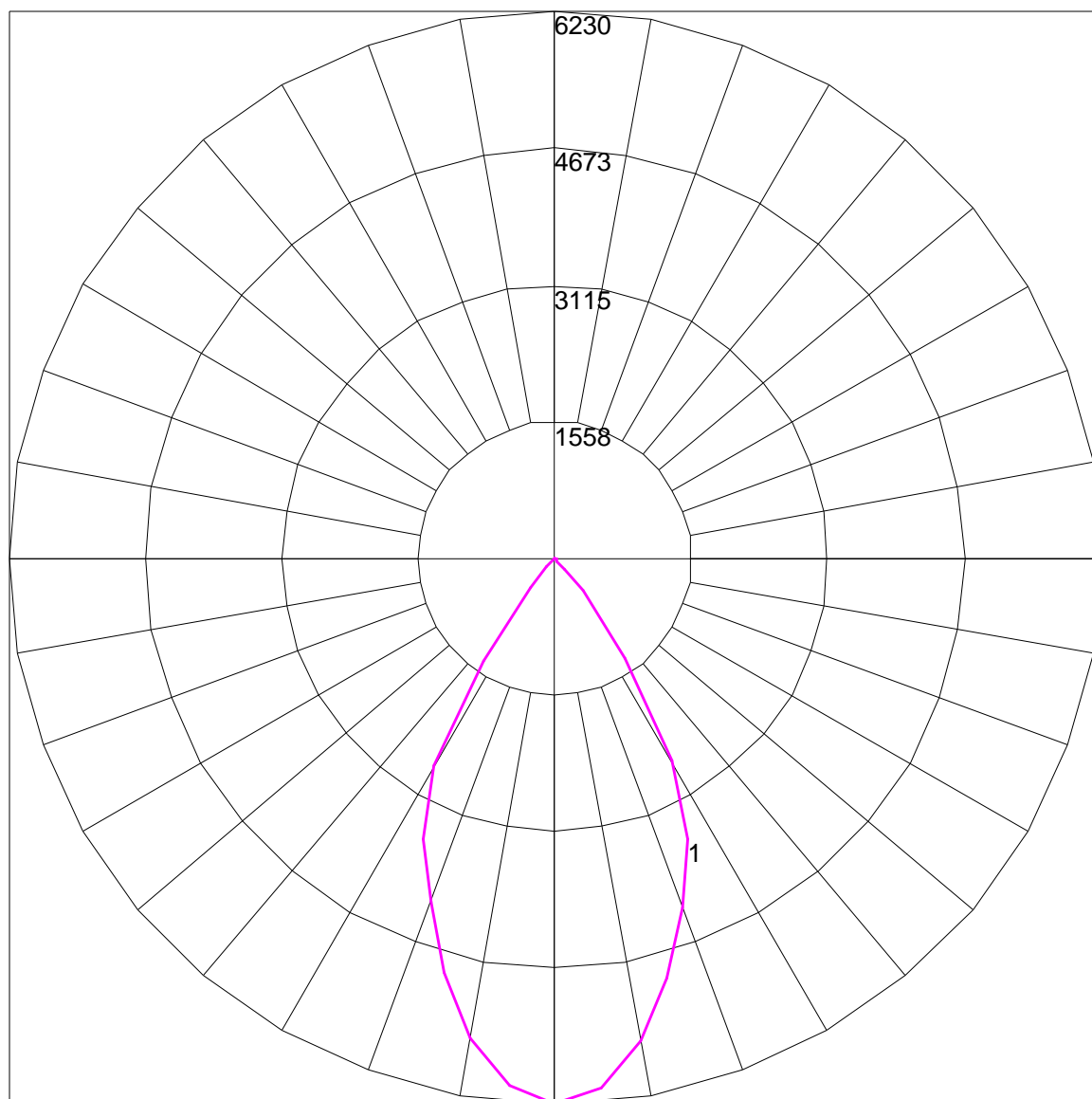
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 6230.019 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)