



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS100L-4L-35K.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[ISSUEDATE] 24 August 2020

[TESTLAB] Spectra Lux

[TEST] S2008242-R1 CONFIG

[MANUFAC] Beluce Canada Inc.

[LUMCAT] BS100L-4L-35K

[LUMINAIRE] BS100L-4L-35K

[LAMP] Clusters of Seoul STW8A2PD-E1 LEDs c/w Universal Driver D10CC30347TW-C

[BURNING] Vertical Base Up (6377 Luminaire Lumens)

[REFLECTOR] White Painted Plate

[LENS] Diffuse Convex Polycarbonate

[HOUSING] Molded Polymer

[NOMINAL COLOR] 3500 K

[DRIVE CURRENT] 47.58 mA /LED

[SEARCH\_SOURCETYPE] LED

[SEARCH\_APPLICATION] Indoor, Canopy, Classroom, Garage, Corrosion Resistant, Vandal Resistant

[SEARCH\_MOUNTING] Surface

[SEARCH\_CERTIFICATION] CSA

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6377
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	159
Total Luminaire Watts	40
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.20
Spacing Criterion (Diagonal)	1.34
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.04 ft
Luminous Width (90-270)	0.54 ft
Luminous Height	0.13 ft

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**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	10634	8595	7881
55	9908	7541	6720
65	8796	6133	5235
75	6825	4294	3393
85	4079	2588	2048

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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>
0.0	2326.163	2326.163	2326.163	2326.163	2326.163	2326.163	2326.163	2326.163	2326.163
2.5	2312.169	2307.504	2305.949	2307.504	2302.840	2307.504	2305.949	2307.504	2312.169
5.0	2312.169	2305.949	2282.625	2281.070	2273.296	2281.070	2282.625	2305.949	2312.169
7.5	2288.845	2276.406	2270.186	2254.636	2262.412	2254.636	2270.186	2276.406	2288.845
10.0	2279.515	2260.857	2240.642	2225.094	2217.319	2225.094	2240.642	2260.857	2279.515
12.5	2270.186	2245.307	2201.770	2184.665	2172.225	2184.665	2201.770	2245.307	2270.186
15.0	2231.313	2203.324	2176.892	2150.457	2148.902	2150.457	2176.892	2203.324	2231.313
17.5	2209.543	2172.225	2134.908	2111.584	2097.590	2111.584	2134.908	2172.225	2209.543
20.0	2189.331	2139.571	2086.705	2064.936	2050.943	2064.936	2086.705	2139.571	2189.331
22.5	2133.353	2085.150	2052.496	2016.734	2010.515	2016.734	2052.496	2085.150	2133.353
25.0	2089.814	2041.612	1996.519	1966.976	1951.427	1966.976	1996.519	2041.612	2089.814
27.5	2057.163	1999.630	1934.323	1906.334	1890.786	1906.334	1934.323	1999.630	2057.163
30.0	2001.184	1931.214	1887.674	1847.248	1836.363	1847.248	1887.674	1931.214	2001.184
32.5	1943.653	1873.681	1823.924	1785.051	1771.057	1785.051	1823.924	1873.681	1943.653
35.0	1884.565	1814.594	1752.397	1715.079	1694.865	1715.079	1752.397	1814.594	1884.565
37.5	1811.485	1733.737	1691.756	1646.663	1632.668	1646.663	1691.756	1733.737	1811.485
40.0	1746.177	1665.322	1615.564	1575.136	1553.366	1575.136	1615.564	1665.322	1746.177
42.5	1668.431	1593.795	1537.818	1491.170	1469.401	1491.170	1537.818	1593.795	1668.431
45.0	1578.246	1505.164	1466.291	1414.979	1396.319	1414.979	1466.291	1505.164	1578.246
47.5	1492.725	1422.753	1379.216	1329.457	1307.689	1329.457	1379.216	1422.753	1492.725
50.0	1402.540	1340.342	1289.030	1242.382	1217.504	1242.382	1289.030	1340.342	1402.540
52.5	1303.024	1242.382	1208.174	1156.861	1135.093	1156.861	1208.174	1242.382	1303.024
55.0	1208.174	1150.641	1113.323	1065.121	1043.351	1065.121	1113.323	1150.641	1208.174
57.5	1117.990	1058.902	1015.364	970.271	946.947	970.271	1015.364	1058.902	1117.990
60.0	1007.589	956.276	928.289	878.532	859.872	878.532	928.289	956.276	1007.589
62.5	903.410	866.093	830.329	786.790	765.022	786.790	830.329	866.093	903.410
65.0	807.005	769.687	737.033	695.050	673.280	695.050	737.033	769.687	807.005
67.5	699.715	670.171	645.293	604.865	584.650	604.865	645.293	670.171	699.715
70.0	604.865	576.875	553.551	513.125	492.910	513.125	553.551	576.875	604.865
72.5	503.794	488.246	460.258	427.604	410.499	427.604	460.258	488.246	503.794
75.0	401.170	396.505	382.510	348.302	332.753	348.302	382.510	396.505	401.170
77.5	310.985	317.205	303.209	278.331	264.336	278.331	303.209	317.205	310.985
80.0	227.019	245.678	236.349	219.243	208.359	219.243	236.349	245.678	227.019
82.5	153.938	186.591	181.925	174.152	169.486	174.152	181.925	186.591	153.938
85.0	97.959	141.499	143.053	136.832	132.168	136.832	143.053	141.499	97.959
87.5	70.748	110.401	111.955	112.213	108.845	112.213	111.955	110.401	70.748
90.0	59.087	85.520	87.075	90.186	88.630	90.186	87.075	85.520	59.087
92.5	54.423	66.862	71.527	74.636	73.081	74.636	71.527	66.862	54.423
95.0	49.757	54.423	55.978	60.641	62.196	60.641	55.978	54.423	49.757
97.5	41.983	45.093	46.648	52.867	54.423	52.867	46.648	45.093	41.983
100.0	38.873	37.318	38.873	43.538	46.648	43.538	38.873	37.318	38.873
102.5	31.099	31.099	35.763	40.428	40.428	40.428	35.763	31.099	31.099
105.0	26.434	24.879	27.988	34.209	35.763	34.209	27.988	24.879	26.434
107.5	21.770	21.770	23.324	29.542	31.099	29.542	23.324	21.770	21.770
110.0	18.660	18.660	21.770	26.434	27.988	26.434	21.770	18.660	18.660
112.5	15.549	13.994	17.103	20.215	23.324	20.215	17.103	13.994	15.549
115.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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CANDELA TABULATION - (Cont.)

135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	832.42	N.A.	13.10
0-30	1757.22	N.A.	27.60
0-40	2863.12	N.A.	44.90
0-60	4989.00	N.A.	78.20
0-80	6116.67	N.A.	95.90
0-90	6272.84	N.A.	98.40
10-90	6055.63	N.A.	95.00
20-40	2030.7	N.A.	31.80
20-50	3161.81	N.A.	49.60
40-70	2853.47	N.A.	44.70
60-80	1127.68	N.A.	17.70
70-80	400.08	N.A.	6.30
80-90	156.17	N.A.	2.40
90-110	96.96	N.A.	1.50
90-120	104.32	N.A.	1.60
90-130	104.32	N.A.	1.60
90-150	104.32	N.A.	1.60
90-180	104.32	N.A.	1.60
110-180	7.36	N.A.	0.10
0-180	6377.16	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	217.21
10-20	615.20
20-30	924.80
30-40	1105.9
40-50	1131.11
50-60	994.77
60-70	727.60
70-80	400.08
80-90	156.17
90-100	64.58
100-110	32.38
110-120	7.36
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

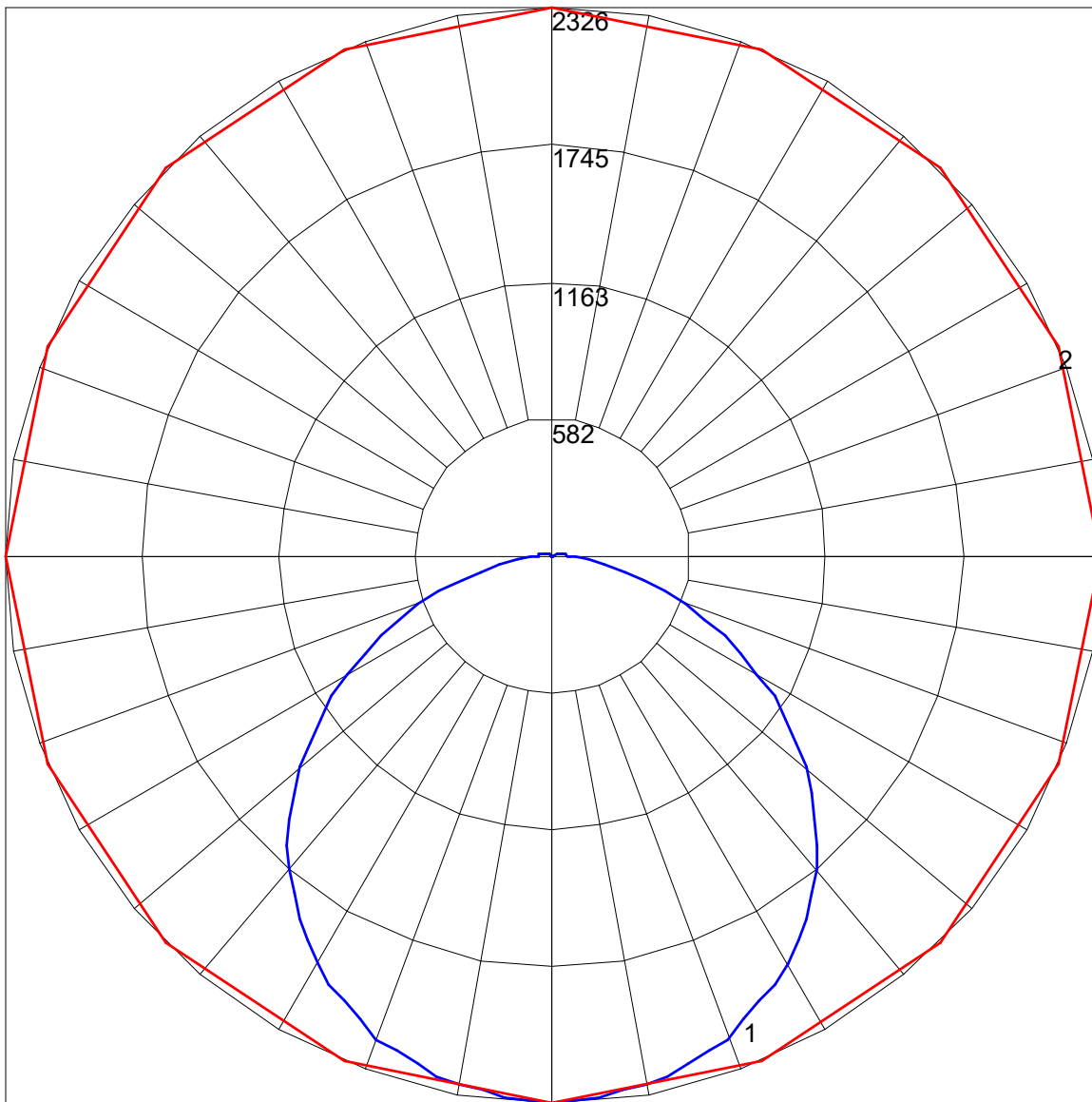
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	110	110	110	105	105	105	101	101	101	98
1	108	103	99	95	105	101	97	94	97	93	90	92	90	87	88	86	84	82
2	99	90	84	78	96	88	82	77	84	79	75	81	77	73	78	74	71	69
3	90	79	71	65	87	78	70	64	75	68	63	72	66	61	69	64	60	58
4	82	70	62	55	80	69	61	55	66	59	54	64	58	53	61	56	52	50
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	55	50	45	43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	50	44	40	38
7	65	51	43	37	63	51	42	36	49	41	36	47	41	36	46	40	35	33
8	60	47	39	33	59	46	38	33	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	35	29	41	34	29	40	33	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	26	37	31	26	36	30	26	24

POLAR GRAPH



Maximum Candela = 2326.163 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)