



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS100L-4L-5K.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-5K

[LUMINAIRE] BS100L-4L-5K

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

[BURNING] Vertical Base Up (6600 Luminaire Lumens)

[REFLECTOR] White Painted Plate

[LENS] Diffuse Convex Polycarbonate

[HOUSING] Molded Polymer

[NOMINAL COLOR] 5000 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	6600
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	165
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	11005	8895	8156
55	10254	7804	6955
65	9103	6347	5417
75	7064	4444	3511
85	4221	2678	2119

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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	2407.387	2407.387	2407.387	2407.387	2407.387	2407.387	2407.387	2407.387	2407.387
2.5	2392.904	2388.076	2386.467	2388.076	2383.249	2388.076	2386.467	2388.076	2392.904
5.0	2392.904	2386.467	2362.328	2360.719	2352.674	2360.719	2362.328	2386.467	2392.904
7.5	2368.766	2355.892	2349.455	2333.363	2341.410	2333.363	2349.455	2355.892	2368.766
10.0	2359.110	2339.801	2318.880	2302.789	2294.743	2302.789	2318.880	2339.801	2359.110
12.5	2349.455	2323.707	2278.650	2260.949	2248.074	2260.949	2278.650	2323.707	2349.455
15.0	2309.225	2280.259	2252.903	2225.545	2223.936	2225.545	2252.903	2280.259	2309.225
17.5	2286.695	2248.074	2209.454	2185.315	2170.833	2185.315	2209.454	2248.074	2286.695
20.0	2265.777	2214.280	2159.568	2137.039	2122.556	2137.039	2159.568	2214.280	2265.777
22.5	2207.845	2157.958	2124.164	2087.153	2080.717	2087.153	2124.164	2157.958	2207.845
25.0	2162.786	2112.900	2066.233	2035.658	2019.566	2035.658	2066.233	2112.900	2162.786
27.5	2128.994	2069.452	2001.865	1972.899	1956.808	1972.899	2001.865	2069.452	2128.994
30.0	2071.061	1998.647	1953.587	1911.749	1900.484	1911.749	1953.587	1998.647	2071.061
32.5	2011.520	1939.105	1887.611	1847.380	1832.898	1847.380	1887.611	1939.105	2011.520
35.0	1950.369	1877.955	1813.586	1774.965	1754.046	1774.965	1813.586	1877.955	1950.369
37.5	1874.737	1794.275	1750.828	1704.160	1689.677	1704.160	1750.828	1794.275	1874.737
40.0	1807.149	1723.471	1671.975	1630.136	1607.606	1630.136	1671.975	1723.471	1807.149
42.5	1726.689	1649.447	1591.515	1543.238	1520.709	1543.238	1591.515	1649.447	1726.689
45.0	1633.354	1557.721	1517.491	1464.387	1445.075	1464.387	1517.491	1557.721	1633.354
47.5	1544.847	1472.432	1427.375	1375.878	1353.351	1375.878	1427.375	1472.432	1544.847
50.0	1451.514	1387.144	1334.040	1285.763	1260.016	1285.763	1334.040	1387.144	1451.514
52.5	1348.523	1285.763	1250.361	1197.256	1174.728	1197.256	1250.361	1285.763	1348.523
55.0	1250.361	1190.819	1152.198	1102.312	1079.783	1102.312	1152.198	1190.819	1250.361
57.5	1157.027	1095.876	1050.818	1004.151	980.012	1004.151	1050.818	1095.876	1157.027
60.0	1042.772	989.667	960.702	909.208	889.896	909.208	960.702	989.667	1042.772
62.5	934.955	896.334	859.322	814.263	791.734	814.263	859.322	896.334	934.955
65.0	835.184	796.562	762.768	719.319	696.789	719.319	762.768	796.562	835.184
67.5	724.147	693.571	667.825	625.985	605.065	625.985	667.825	693.571	724.147
70.0	625.985	597.019	572.880	531.042	510.121	531.042	572.880	597.019	625.985
72.5	521.385	505.294	476.329	442.535	424.832	442.535	476.329	505.294	521.385
75.0	415.178	410.350	395.867	360.464	344.372	360.464	395.867	410.350	415.178
77.5	321.843	328.281	313.796	288.049	273.566	288.049	313.796	328.281	321.843
80.0	234.946	254.257	244.601	226.899	215.634	226.899	244.601	254.257	234.946
82.5	159.313	193.107	188.277	180.233	175.404	180.233	188.277	193.107	159.313
85.0	101.380	146.439	148.048	141.610	136.783	141.610	148.048	146.439	101.380
87.5	73.219	114.255	115.864	116.131	112.645	116.131	115.864	114.255	73.219
90.0	61.150	88.507	90.116	93.335	91.725	93.335	90.116	88.507	61.150
92.5	56.324	69.197	74.024	77.242	75.633	77.242	74.024	69.197	56.324
95.0	51.494	56.324	57.933	62.759	64.368	62.759	57.933	56.324	51.494
97.5	43.449	46.667	48.276	54.713	56.324	54.713	48.276	46.667	43.449
100.0	40.230	38.621	40.230	45.058	48.276	45.058	40.230	38.621	40.230
102.5	32.185	32.185	37.012	41.839	41.839	41.839	37.012	32.185	32.185
105.0	27.357	25.748	28.965	35.403	37.012	35.403	28.965	25.748	27.357
107.5	22.530	22.530	24.139	30.574	32.185	30.574	24.139	22.530	22.530
110.0	19.312	19.312	22.530	27.357	28.965	27.357	22.530	19.312	19.312
112.5	16.091	14.482	17.700	20.921	24.139	20.921	17.700	14.482	16.091
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	861.48	N.A.	13.10
0-30	1818.57	N.A.	27.60
0-40	2963.09	N.A.	44.90
0-60	5163.2	N.A.	78.20
0-80	6330.25	N.A.	95.90
0-90	6491.87	N.A.	98.40
10-90	6267.08	N.A.	95.00
20-40	2101.61	N.A.	31.80
20-50	3272.22	N.A.	49.60
40-70	2953.11	N.A.	44.70
60-80	1167.05	N.A.	17.70
70-80	414.05	N.A.	6.30
80-90	161.62	N.A.	2.40
90-110	100.34	N.A.	1.50
90-120	107.96	N.A.	1.60
90-130	107.96	N.A.	1.60
90-150	107.96	N.A.	1.60
90-180	107.96	N.A.	1.60
110-180	7.62	N.A.	0.10
0-180	6599.83	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	224.80
10-20	636.69
20-30	957.09
30-40	1144.52
40-50	1170.61
50-60	1029.5
60-70	753.00
70-80	414.05
80-90	161.62
90-100	66.83
100-110	33.51
110-120	7.62
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

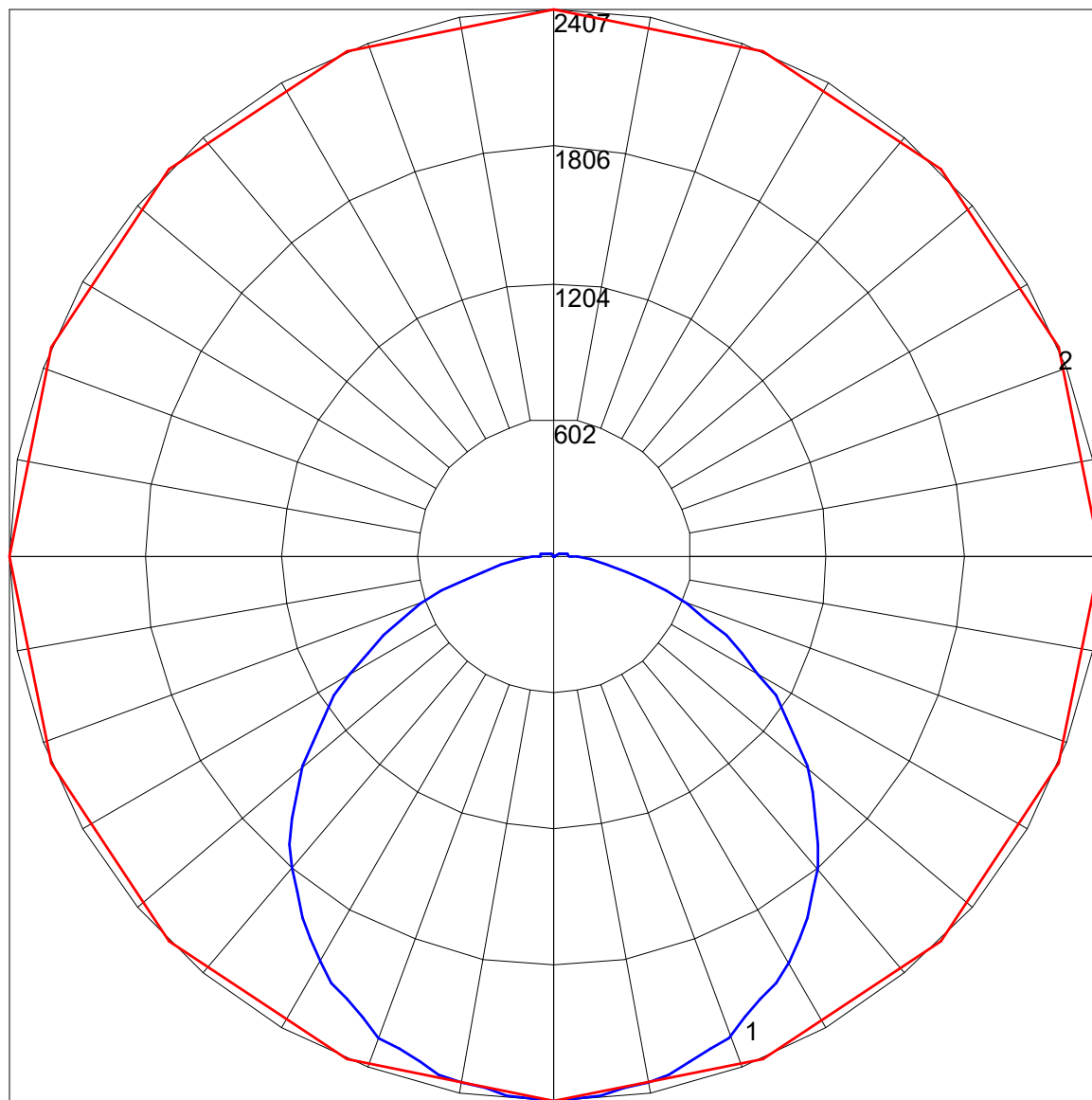
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	96	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 = 2407.387 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.)