



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS100L-4M-5K.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[ISSUE DATE] 24 August 2020

[TEST LAB] Spectra Lux

[TEST] S2008242-R1 CONFIG

[MANUFACT] Beluce Canada Inc.

[LUMCAT] BS100L-4M-5K

[LUMINAIRE] BS100L-4M-5K

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

[BURNING] Vertical Base Up (7209 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	7209
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	148
Total Luminaire Watts	48.62
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	12021	9716	8909
55	11201	8525	7597
65	9943	6933	5918
75	7716	4854	3836
85	4611	2926	2315

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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	2629.637	2629.637	2629.637	2629.637	2629.637	2629.637	2629.637	2629.637	2629.637
2.5	2613.817	2608.543	2606.786	2608.543	2603.271	2608.543	2606.786	2608.543	2613.817
5.0	2613.817	2606.786	2580.419	2578.661	2569.873	2578.661	2580.419	2606.786	2613.817
7.5	2587.451	2573.389	2566.357	2548.778	2557.569	2548.778	2566.357	2573.389	2587.451
10.0	2576.903	2555.811	2532.959	2515.382	2506.593	2515.382	2532.959	2555.811	2576.903
12.5	2566.357	2538.232	2489.014	2469.679	2455.616	2469.679	2489.014	2538.232	2566.357
15.0	2522.413	2490.773	2460.892	2431.008	2429.250	2431.008	2460.892	2490.773	2522.413
17.5	2497.803	2455.616	2413.430	2387.064	2371.244	2387.064	2413.430	2455.616	2497.803
20.0	2474.954	2418.702	2358.939	2334.330	2318.511	2334.330	2358.939	2418.702	2474.954
22.5	2411.673	2357.181	2320.267	2279.840	2272.809	2279.840	2320.267	2357.181	2411.673
25.0	2362.454	2307.963	2256.988	2223.590	2206.013	2223.590	2256.988	2307.963	2362.454
27.5	2325.543	2260.504	2186.677	2155.037	2137.460	2155.037	2186.677	2260.504	2325.543
30.0	2262.261	2183.162	2133.942	2088.242	2075.936	2088.242	2133.942	2183.162	2262.261
32.5	2197.224	2118.123	2061.875	2017.931	2002.111	2017.931	2061.875	2118.123	2197.224
35.0	2130.428	2051.328	1981.017	1938.830	1915.979	1938.830	1981.017	2051.328	2130.428
37.5	2047.813	1959.922	1912.464	1861.488	1845.668	1861.488	1912.464	1959.922	2047.813
40.0	1973.985	1882.582	1826.332	1780.630	1756.021	1780.630	1826.332	1882.582	1973.985
42.5	1886.096	1801.723	1738.444	1685.711	1661.100	1685.711	1738.444	1801.723	1886.096
45.0	1784.146	1701.530	1657.586	1599.579	1578.485	1599.579	1657.586	1701.530	1784.146
47.5	1687.468	1608.367	1559.151	1502.899	1478.292	1502.899	1559.151	1608.367	1687.468
50.0	1585.517	1515.205	1457.199	1404.464	1376.340	1404.464	1457.199	1515.205	1585.517
52.5	1473.018	1404.464	1365.794	1307.787	1283.179	1307.787	1365.794	1404.464	1473.018
55.0	1365.794	1300.755	1258.569	1204.078	1179.468	1204.078	1258.569	1300.755	1365.794
57.5	1263.843	1197.047	1147.830	1096.854	1070.486	1096.854	1147.830	1197.047	1263.843
60.0	1139.041	1081.033	1049.395	993.145	972.051	993.145	1049.395	1081.033	1139.041
62.5	1021.269	979.083	938.655	889.435	864.827	889.435	938.655	979.083	1021.269
65.0	912.288	870.101	833.187	785.727	761.117	785.727	833.187	870.101	912.288
67.5	791.000	757.602	729.478	683.776	660.924	683.776	729.478	757.602	791.000
70.0	683.776	652.135	625.768	580.067	557.215	580.067	625.768	652.135	683.776
72.5	569.520	551.943	520.303	483.389	464.053	483.389	520.303	551.943	569.520
75.0	453.507	448.234	432.413	393.741	376.164	393.741	432.413	448.234	453.507
77.5	351.556	358.588	342.766	314.642	298.822	314.642	342.766	358.588	351.556
80.0	256.636	277.729	267.183	247.846	235.541	247.846	267.183	277.729	256.636
82.5	174.020	210.934	205.659	196.872	191.597	196.872	205.659	210.934	174.020
85.0	110.740	159.958	161.717	154.684	149.411	154.684	161.717	159.958	110.740
87.5	79.978	124.804	126.561	126.852	123.044	126.852	126.561	124.804	79.978
90.0	66.795	96.678	98.435	101.952	100.192	101.952	98.435	96.678	66.795
92.5	61.523	75.585	80.858	84.373	82.616	84.373	80.858	75.585	61.523
95.0	56.248	61.523	63.282	68.553	70.310	68.553	63.282	61.523	56.248
97.5	47.460	50.976	52.733	59.764	61.523	59.764	52.733	50.976	47.460
100.0	43.944	42.187	43.944	49.219	52.733	49.219	43.944	42.187	43.944
102.5	35.157	35.157	40.429	45.702	45.702	45.702	40.429	35.157	35.157
105.0	29.882	28.125	31.639	38.671	40.429	38.671	31.639	28.125	29.882
107.5	24.609	24.609	26.368	33.396	35.157	33.396	26.368	24.609	24.609
110.0	21.095	21.095	24.609	29.882	31.639	29.882	24.609	21.095	21.095
112.5	17.577	15.819	19.334	22.852	26.368	22.852	19.334	15.819	17.577
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	941.02	N.A.	13.10
0-30	1986.47	N.A.	27.60
0-40	3236.64	N.A.	44.90
0-60	5639.87	N.A.	78.20
0-80	6914.66	N.A.	95.90
0-90	7091.2	N.A.	98.40
10-90	6845.65	N.A.	95.00
20-40	2295.63	N.A.	31.80
20-50	3574.31	N.A.	49.60
40-70	3225.74	N.A.	44.70
60-80	1274.79	N.A.	17.70
70-80	452.27	N.A.	6.30
80-90	176.54	N.A.	2.40
90-110	109.61	N.A.	1.50
90-120	117.93	N.A.	1.60
90-130	117.93	N.A.	1.60
90-150	117.93	N.A.	1.60
90-180	117.93	N.A.	1.60
110-180	8.32	N.A.	0.10
0-180	7209.13	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	245.55
10-20	695.46
20-30	1045.45
30-40	1250.18
40-50	1278.68
50-60	1124.54
60-70	822.52
70-80	452.27
80-90	176.54
90-100	73.00
100-110	36.61
110-120	8.32
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

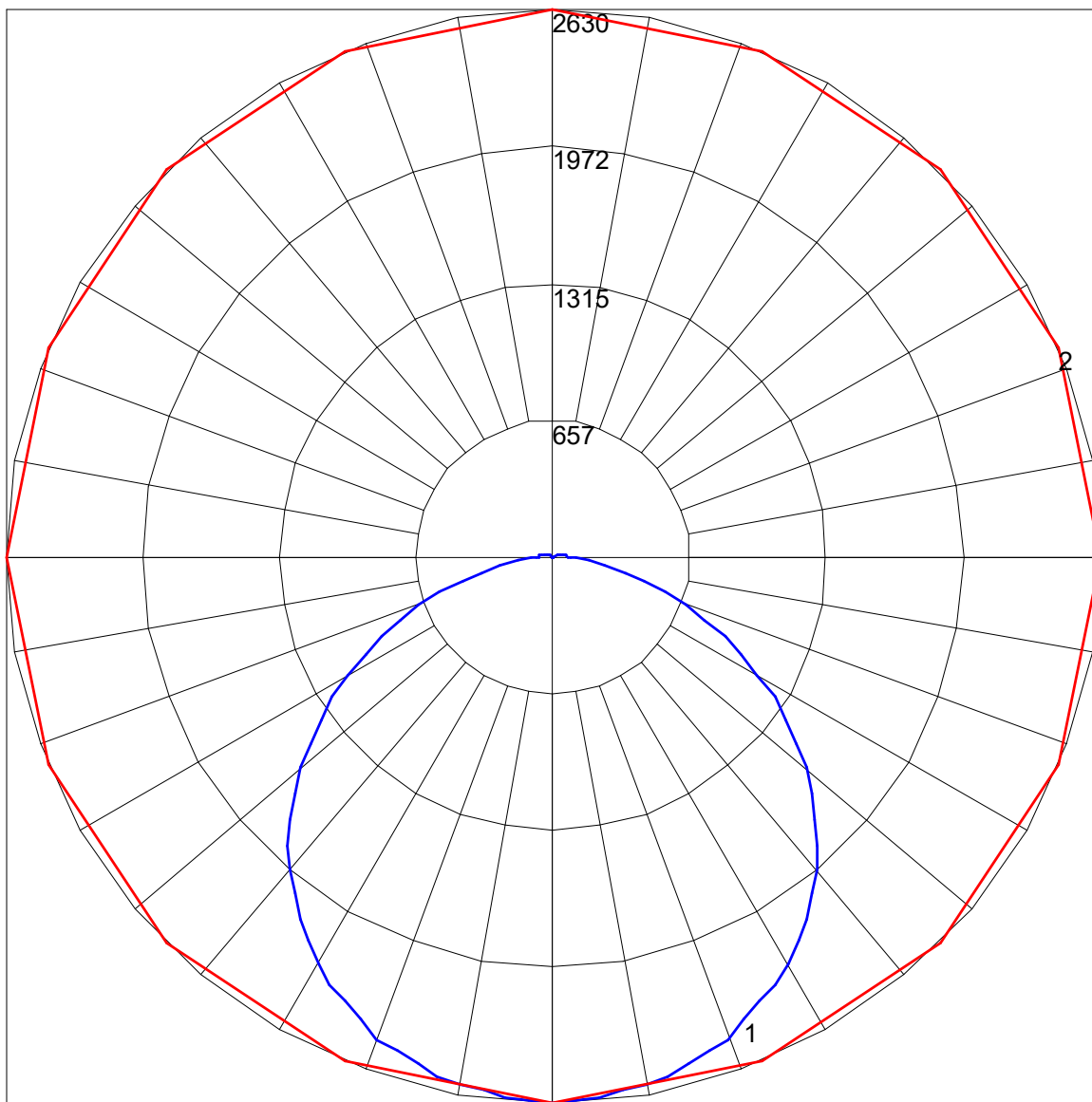
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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 = 2629.637 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.)