



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS100L-4H-4K.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-4H-4K

[LUMINAIRE] BS100L-4H-4K

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

[BURNING] Vertical Base Up (8707 Luminaire Lumens)

[REFLECTOR] White Painted Plate

[LENS] Diffuse Convex Polycarbonate

[HOUSING] Molded Polymer

[NOMINAL COLOR] 4000 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	8707
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	141
Total Luminaire Watts	61.91
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	14519	11735	10760
55	13528	10296	9175
65	12009	8373	7147
75	9319	5863	4632
85	5569	3534	2796

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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	3175.926	3175.926	3175.926	3175.926	3175.926	3175.926	3175.926	3175.926	3175.926
2.5	3156.821	3150.451	3148.329	3150.451	3144.084	3150.451	3148.329	3150.451	3156.821
5.0	3156.821	3148.329	3116.484	3114.360	3103.748	3114.360	3116.484	3148.329	3156.821
7.5	3124.976	3107.994	3099.501	3078.271	3088.887	3078.271	3099.501	3107.994	3124.976
10.0	3112.238	3086.764	3059.165	3037.937	3027.321	3037.937	3059.165	3086.764	3112.238
12.5	3099.501	3065.534	3006.092	2982.739	2965.755	2982.739	3006.092	3065.534	3099.501
15.0	3046.427	3008.216	2972.126	2936.035	2933.911	2936.035	2972.126	3008.216	3046.427
17.5	3016.706	2965.755	2914.805	2882.961	2863.855	2882.961	2914.805	2965.755	3016.706
20.0	2989.109	2921.173	2848.993	2819.273	2800.167	2819.273	2848.993	2921.173	2989.109
22.5	2912.683	2846.871	2802.288	2753.462	2744.971	2753.462	2802.288	2846.871	2912.683
25.0	2853.238	2787.427	2725.862	2685.527	2664.297	2685.527	2725.862	2787.427	2853.238
27.5	2808.659	2730.109	2640.945	2602.732	2581.504	2602.732	2640.945	2730.109	2808.659
30.0	2732.231	2636.699	2577.255	2522.060	2507.198	2522.060	2577.255	2636.699	2732.231
32.5	2653.683	2558.150	2490.216	2437.143	2418.036	2437.143	2490.216	2558.150	2653.683
35.0	2573.011	2477.478	2392.560	2341.609	2314.011	2341.609	2392.560	2477.478	2573.011
37.5	2473.233	2367.083	2309.767	2248.200	2229.094	2248.200	2309.767	2367.083	2473.233
40.0	2384.068	2273.677	2205.740	2150.544	2120.823	2150.544	2205.740	2273.677	2384.068
42.5	2277.920	2176.020	2099.595	2035.906	2006.184	2035.906	2099.595	2176.020	2277.920
45.0	2154.791	2055.012	2001.938	1931.881	1906.405	1931.881	2001.938	2055.012	2154.791
47.5	2038.029	1942.495	1883.055	1815.117	1785.398	1815.117	1883.055	1942.495	2038.029
50.0	1914.898	1829.979	1759.922	1696.232	1662.266	1696.232	1759.922	1829.979	1914.898
52.5	1779.029	1696.232	1649.530	1579.472	1549.751	1579.472	1649.530	1696.232	1779.029
55.0	1649.530	1570.979	1520.029	1454.217	1424.495	1454.217	1520.029	1570.979	1649.530
57.5	1526.399	1445.726	1386.284	1324.718	1292.873	1324.718	1386.284	1445.726	1526.399
60.0	1375.669	1305.610	1267.399	1199.465	1173.988	1199.465	1267.399	1305.610	1375.669
62.5	1233.432	1182.481	1133.655	1074.209	1044.490	1074.209	1133.655	1182.481	1233.432
65.0	1101.811	1050.859	1006.276	948.957	919.233	948.957	1006.276	1050.859	1101.811
67.5	955.325	914.989	881.023	825.826	798.227	825.826	881.023	914.989	955.325
70.0	825.826	787.612	755.767	700.572	672.973	700.572	755.767	787.612	825.826
72.5	687.834	666.605	628.394	583.811	560.458	583.811	628.394	666.605	687.834
75.0	547.720	541.351	522.245	475.538	454.311	475.538	522.245	541.351	547.720
77.5	424.590	433.082	413.973	380.007	360.901	380.007	413.973	433.082	424.590
80.0	309.949	335.426	322.689	299.335	284.473	299.335	322.689	335.426	309.949
82.5	210.172	254.754	248.383	237.772	231.400	237.772	248.383	254.754	210.172
85.0	133.746	193.189	195.313	186.819	180.449	186.819	195.313	193.189	133.746
87.5	96.593	150.732	152.852	153.205	148.606	153.205	152.852	150.732	96.593
90.0	80.671	116.762	118.884	123.131	121.007	123.131	118.884	116.762	80.671
92.5	74.304	91.288	97.656	101.901	99.779	101.901	97.656	91.288	74.304
95.0	67.933	74.304	76.428	82.793	84.916	82.793	76.428	74.304	67.933
97.5	57.319	61.566	63.689	72.180	74.304	72.180	63.689	61.566	57.319
100.0	53.073	50.950	53.073	59.443	63.689	59.443	53.073	50.950	53.073
102.5	42.460	42.460	48.827	55.196	55.196	55.196	48.827	42.460	42.460
105.0	36.091	33.968	38.212	46.706	48.827	46.706	38.212	33.968	36.091
107.5	29.722	29.722	31.845	40.333	42.460	40.333	31.845	29.722	29.722
110.0	25.476	25.476	29.722	36.091	38.212	36.091	29.722	25.476	25.476
112.5	21.228	19.106	23.350	27.599	31.845	27.599	23.350	19.106	21.228
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	1136.51	N.A.	13.10
0-30	2399.14	N.A.	27.60
0-40	3909.04	N.A.	44.90
0-60	6811.51	N.A.	78.20
0-80	8351.13	N.A.	95.90
0-90	8564.36	N.A.	98.40
10-90	8267.79	N.A.	95.00
20-40	2772.53	N.A.	31.80
20-50	4316.85	N.A.	49.60
40-70	3895.87	N.A.	44.70
60-80	1539.62	N.A.	17.70
70-80	546.23	N.A.	6.30
80-90	213.22	N.A.	2.40
90-110	132.38	N.A.	1.50
90-120	142.42	N.A.	1.60
90-130	142.42	N.A.	1.60
90-150	142.42	N.A.	1.60
90-180	142.42	N.A.	1.60
110-180	10.05	N.A.	0.10
0-180	8706.78	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	296.56
10-20	839.94
20-30	1262.64
30-40	1509.9
40-50	1544.31
50-60	1358.16
60-70	993.39
70-80	546.23
80-90	213.22
90-100	88.17
100-110	44.21
110-120	10.05
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

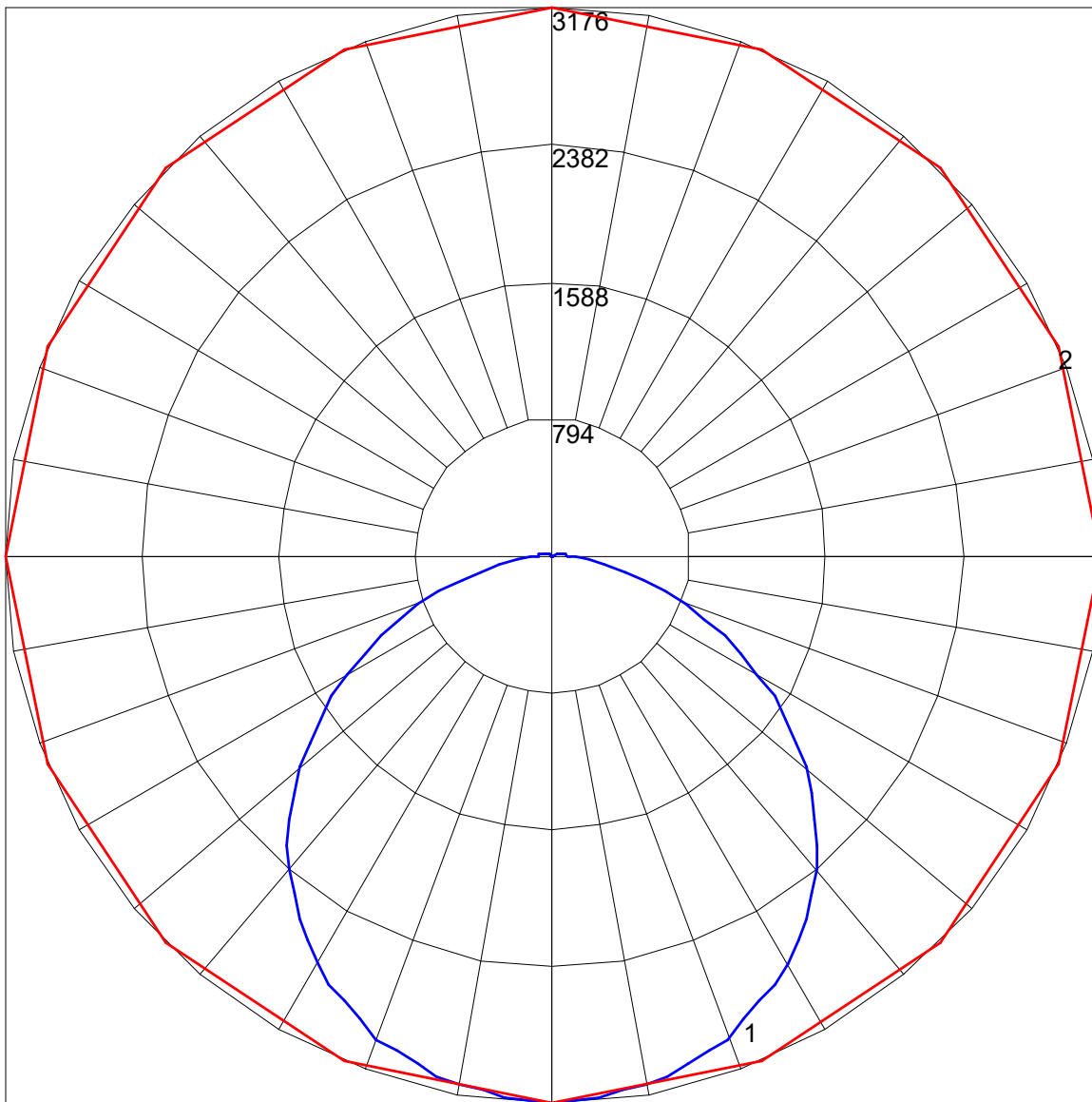
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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 = 3175.926 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.)