



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS100L-4H-3K.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-4H-3K

[LUMINAIRE] BS100L-4H-3K

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

[BURNING] Vertical Base Up (8269 Luminaire Lumens)

[REFLECTOR] White Painted Plate

[LENS] Diffuse Convex Polycarbonate

[HOUSING] Molded Polymer

[NOMINAL COLOR] 3000 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	8269
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	134
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	13788	11144	10218
55	12847	9778	8713
65	11405	7951	6787
75	8850	5567	4399
85	5289	3356	2655

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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	3016.074	3016.074	3016.074	3016.074	3016.074	3016.074	3016.074	3016.074	3016.074
2.5	2997.931	2991.881	2989.866	2991.881	2985.835	2991.881	2989.866	2991.881	2997.931
5.0	2997.931	2989.866	2959.624	2957.607	2947.529	2957.607	2959.624	2989.866	2997.931
7.5	2967.689	2951.561	2943.496	2923.334	2933.416	2923.334	2943.496	2951.561	2967.689
10.0	2955.592	2931.400	2905.190	2885.030	2874.949	2885.030	2905.190	2931.400	2955.592
12.5	2943.496	2911.238	2854.788	2832.611	2816.482	2832.611	2854.788	2911.238	2943.496
15.0	2893.093	2856.805	2822.532	2788.257	2786.240	2788.257	2822.532	2856.805	2893.093
17.5	2864.868	2816.482	2768.096	2737.855	2719.710	2737.855	2768.096	2816.482	2864.868
20.0	2838.660	2774.143	2705.596	2677.372	2659.228	2677.372	2705.596	2774.143	2838.660
22.5	2766.081	2703.581	2661.242	2614.874	2606.810	2614.874	2661.242	2703.581	2766.081
25.0	2709.628	2647.129	2588.663	2550.358	2530.197	2550.358	2588.663	2647.129	2709.628
27.5	2667.293	2592.696	2508.020	2471.730	2451.571	2471.730	2508.020	2592.696	2667.293
30.0	2594.711	2503.988	2447.536	2395.119	2381.005	2395.119	2447.536	2503.988	2594.711
32.5	2520.117	2429.392	2364.878	2314.476	2296.331	2314.476	2364.878	2429.392	2520.117
35.0	2443.505	2352.781	2272.137	2223.750	2197.541	2223.750	2272.137	2352.781	2443.505
37.5	2348.749	2247.942	2193.511	2135.043	2116.898	2135.043	2193.511	2247.942	2348.749
40.0	2264.072	2159.237	2094.720	2042.302	2014.077	2042.302	2094.720	2159.237	2264.072
42.5	2163.267	2066.496	1993.917	1933.434	1905.208	1933.434	1993.917	2066.496	2163.267
45.0	2046.335	1951.578	1901.176	1834.645	1810.451	1834.645	1901.176	1951.578	2046.335
47.5	1935.450	1844.725	1788.276	1723.758	1695.535	1723.758	1788.276	1844.725	1935.450
50.0	1818.517	1737.872	1671.341	1610.857	1578.600	1610.857	1671.341	1737.872	1818.517
52.5	1689.486	1610.857	1566.505	1499.973	1471.748	1499.973	1566.505	1610.857	1689.486
55.0	1566.505	1491.908	1443.522	1381.023	1352.797	1381.023	1443.522	1491.908	1566.505
57.5	1449.572	1372.959	1316.509	1258.042	1227.800	1258.042	1316.509	1372.959	1449.572
60.0	1306.428	1239.896	1203.608	1139.093	1114.898	1139.093	1203.608	1239.896	1306.428
62.5	1171.350	1122.964	1076.595	1020.142	991.918	1020.142	1076.595	1122.964	1171.350
65.0	1046.354	997.967	955.628	901.194	872.966	901.194	955.628	997.967	1046.354
67.5	907.241	868.935	836.679	784.260	758.050	784.260	836.679	868.935	907.241
70.0	784.260	747.970	717.727	665.311	639.101	665.311	717.727	747.970	784.260
72.5	653.214	633.053	596.765	554.426	532.249	554.426	596.765	633.053	653.214
75.0	520.152	514.104	495.959	451.603	431.444	451.603	495.959	514.104	520.152
77.5	403.219	411.284	393.137	360.880	342.736	360.880	393.137	411.284	403.219
80.0	294.349	318.543	306.447	284.269	270.155	284.269	306.447	318.543	294.349
82.5	199.594	241.932	235.881	225.804	219.753	225.804	235.881	241.932	199.594
85.0	127.014	183.465	185.482	177.416	171.367	177.416	185.482	183.465	127.014
87.5	91.731	143.145	145.159	145.494	141.126	145.494	145.159	143.145	91.731
90.0	76.611	110.885	112.900	116.934	114.916	116.934	112.900	110.885	76.611
92.5	70.564	86.693	92.741	96.772	94.757	96.772	92.741	86.693	70.564
95.0	64.514	70.564	72.581	78.626	80.642	78.626	72.581	70.564	64.514
97.5	54.434	58.467	60.483	68.547	70.564	68.547	60.483	58.467	54.434
100.0	50.402	48.386	50.402	56.451	60.483	56.451	50.402	48.386	50.402
102.5	40.323	40.323	46.369	52.418	52.418	52.418	46.369	40.323	40.323
105.0	34.274	32.258	36.289	44.355	46.369	44.355	36.289	32.258	34.274
107.5	28.226	28.226	30.242	38.303	40.323	38.303	30.242	28.226	28.226
110.0	24.194	24.194	28.226	34.274	36.289	34.274	28.226	24.194	24.194
112.5	20.160	18.144	22.175	26.210	30.242	26.210	22.175	18.144	20.160
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	1079.3	N.A.	13.10
0-30	2278.39	N.A.	27.60
0-40	3712.28	N.A.	44.90
0-60	6468.67	N.A.	78.20
0-80	7930.8	N.A.	95.90
0-90	8133.29	N.A.	98.40
10-90	7851.66	N.A.	95.00
20-40	2632.98	N.A.	31.80
20-50	4099.57	N.A.	49.60
40-70	3699.78	N.A.	44.70
60-80	1462.13	N.A.	17.70
70-80	518.74	N.A.	6.30
80-90	202.49	N.A.	2.40
90-110	125.71	N.A.	1.50
90-120	135.26	N.A.	1.60
90-130	135.26	N.A.	1.60
90-150	135.26	N.A.	1.60
90-180	135.26	N.A.	1.60
110-180	9.54	N.A.	0.10
0-180	8268.55	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	281.64
10-20	797.67
20-30	1199.08
30-40	1433.9
40-50	1466.59
50-60	1289.8
60-70	943.39
70-80	518.74
80-90	202.49
90-100	83.73
100-110	41.99
110-120	9.54
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

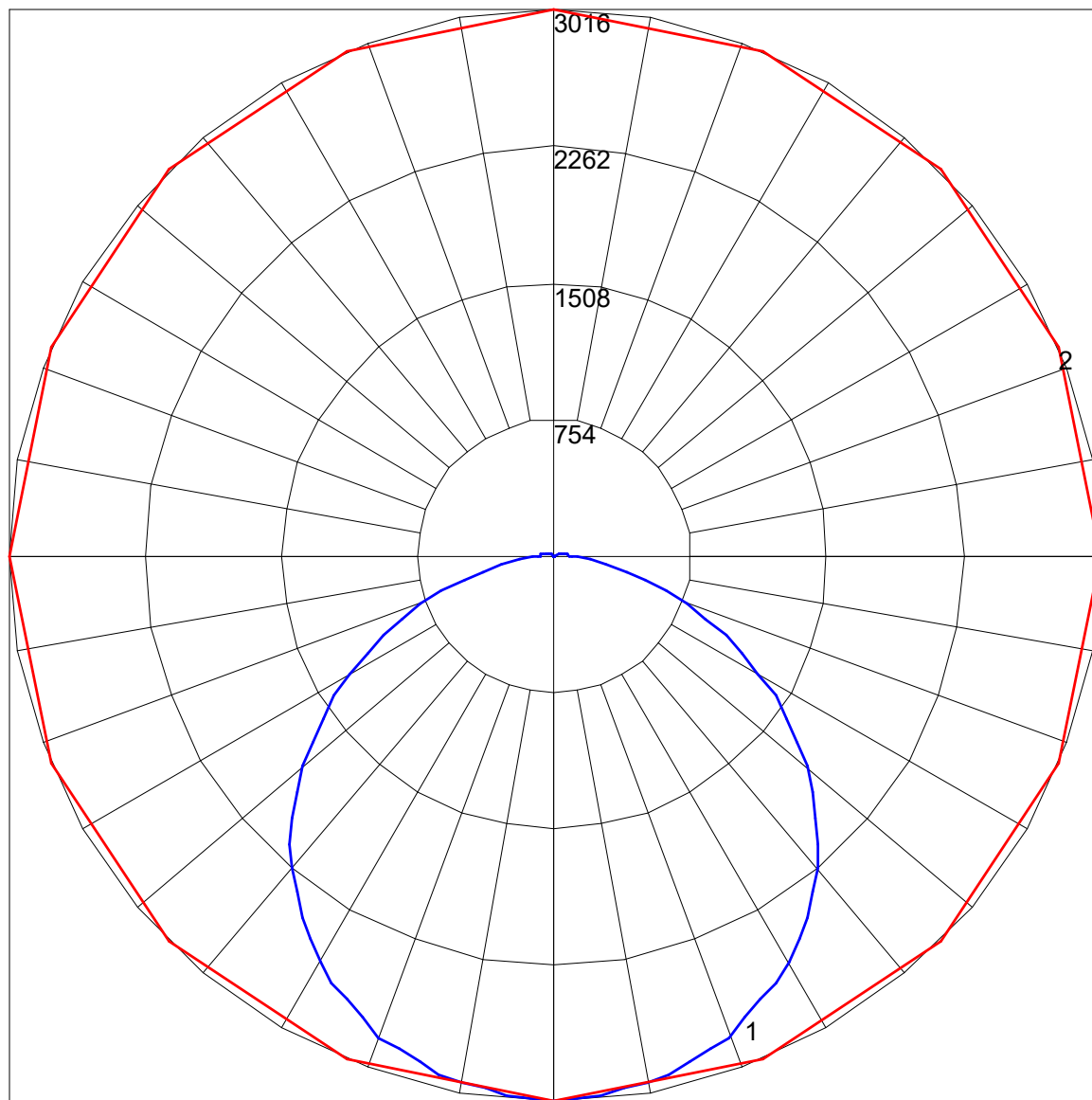
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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 = 3016.074 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.)