



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS100L-4M-4K.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-4M-4K
 [LUMINAIRE] BS100L-4M-4K
 [LAMP] Clusters of Seoul STW8A2PD-E1 LEDs c/w Universal Driver D10CC30347TW-C
 [BURNING] Vertical Base Up (7115 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	7115
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	146
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	11864	9589	8792
55	11054	8413	7497
65	9813	6842	5840
75	7615	4790	3785
85	4550	2887	2284

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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	2595.133	2595.133	2595.133	2595.133	2595.133	2595.133	2595.133	2595.133	2595.133
2.5	2579.521	2574.316	2572.582	2574.316	2569.114	2574.316	2572.582	2574.316	2579.521
5.0	2579.521	2572.582	2546.561	2544.826	2536.154	2544.826	2546.561	2572.582	2579.521
7.5	2553.501	2539.623	2532.684	2515.336	2524.011	2515.336	2532.684	2539.623	2553.501
10.0	2543.092	2522.276	2499.724	2482.378	2473.704	2482.378	2499.724	2522.276	2543.092
12.5	2532.684	2504.928	2456.356	2437.275	2423.396	2437.275	2456.356	2504.928	2532.684
15.0	2489.316	2458.092	2428.602	2399.111	2397.376	2399.111	2428.602	2458.092	2489.316
17.5	2465.030	2423.396	2381.764	2355.743	2340.131	2355.743	2381.764	2423.396	2465.030
20.0	2442.480	2386.967	2327.987	2303.702	2288.090	2303.702	2327.987	2386.967	2442.480
22.5	2380.030	2326.253	2289.823	2249.926	2242.988	2249.926	2289.823	2326.253	2380.030
25.0	2331.457	2277.680	2227.374	2194.414	2177.068	2194.414	2227.374	2277.680	2331.457
27.5	2295.029	2230.844	2157.986	2126.761	2109.415	2126.761	2157.986	2230.844	2295.029
30.0	2232.578	2154.517	2105.943	2060.842	2048.698	2060.842	2105.943	2154.517	2232.578
32.5	2168.394	2090.331	2034.821	1991.454	1975.842	1991.454	2034.821	2090.331	2168.394
35.0	2102.475	2024.412	1955.024	1913.390	1890.839	1913.390	1955.024	2024.412	2102.475
37.5	2020.944	1934.206	1887.371	1837.064	1821.451	1837.064	1887.371	1934.206	2020.944
40.0	1948.085	1857.881	1802.368	1757.266	1732.980	1757.266	1802.368	1857.881	1948.085
42.5	1861.349	1778.083	1715.634	1663.593	1639.305	1663.593	1715.634	1778.083	1861.349
45.0	1760.736	1679.204	1635.837	1578.591	1557.773	1578.591	1635.837	1679.204	1760.736
47.5	1665.327	1587.264	1538.693	1483.180	1458.896	1483.180	1538.693	1587.264	1665.327
50.0	1564.714	1495.324	1438.079	1386.036	1358.282	1386.036	1438.079	1495.324	1564.714
52.5	1453.691	1386.036	1347.874	1290.627	1266.342	1290.627	1347.874	1386.036	1453.691
55.0	1347.874	1283.688	1242.056	1188.279	1163.992	1188.279	1242.056	1283.688	1347.874
57.5	1247.261	1181.341	1132.769	1082.462	1056.440	1082.462	1132.769	1181.341	1247.261
60.0	1124.095	1066.849	1035.625	980.114	959.297	980.114	1035.625	1066.849	1124.095
62.5	1007.869	966.237	926.339	877.765	853.480	877.765	926.339	966.237	1007.869
65.0	900.318	858.685	822.255	775.418	751.130	775.418	822.255	858.685	900.318
67.5	780.622	747.662	719.907	674.805	652.252	674.805	719.907	747.662	780.622
70.0	674.805	643.579	617.557	572.456	549.904	572.456	617.557	643.579	674.805
72.5	562.047	544.701	513.476	477.047	457.964	477.047	513.476	544.701	562.047
75.0	447.557	442.353	426.740	388.575	371.229	388.575	426.740	442.353	447.557
77.5	346.943	353.883	338.269	310.514	294.901	310.514	338.269	353.883	346.943
80.0	253.269	274.085	263.678	244.594	232.451	244.594	263.678	274.085	253.269
82.5	171.737	208.167	202.960	194.289	189.083	194.289	202.960	208.167	171.737
85.0	109.287	157.859	159.595	152.654	147.451	152.654	159.595	157.859	109.287
87.5	78.929	123.166	124.901	125.188	121.430	125.188	124.901	123.166	78.929
90.0	65.919	95.409	97.143	100.614	98.878	100.614	97.143	95.409	65.919
92.5	60.716	74.593	79.797	83.266	81.532	83.266	79.797	74.593	60.716
95.0	55.510	60.716	62.451	67.653	69.387	67.653	62.451	60.716	55.510
97.5	46.837	50.307	52.041	58.980	60.716	58.980	52.041	50.307	46.837
100.0	43.368	41.634	43.368	48.573	52.041	48.573	43.368	41.634	43.368
102.5	34.695	34.695	39.898	45.102	45.102	45.102	39.898	34.695	34.695
105.0	29.490	27.756	31.224	38.164	39.898	38.164	31.224	27.756	29.490
107.5	24.286	24.286	26.022	32.958	34.695	32.958	26.022	24.286	24.286
110.0	20.818	20.818	24.286	29.490	31.224	29.490	24.286	20.818	20.818
112.5	17.346	15.612	19.080	22.552	26.022	22.552	19.080	15.612	17.346
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	928.67	N.A.	13.10
0-30	1960.4	N.A.	27.60
0-40	3194.18	N.A.	44.90
0-60	5565.87	N.A.	78.20
0-80	6823.93	N.A.	95.90
0-90	6998.16	N.A.	98.40
10-90	6755.83	N.A.	95.00
20-40	2265.51	N.A.	31.80
20-50	3527.41	N.A.	49.60
40-70	3183.42	N.A.	44.70
60-80	1258.07	N.A.	17.70
70-80	446.34	N.A.	6.30
80-90	174.23	N.A.	2.40
90-110	108.17	N.A.	1.50
90-120	116.38	N.A.	1.60
90-130	116.38	N.A.	1.60
90-150	116.38	N.A.	1.60
90-180	116.38	N.A.	1.60
110-180	8.21	N.A.	0.10
0-180	7114.54	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	242.33
10-20	686.34
20-30	1031.73
30-40	1233.78
40-50	1261.9
50-60	1109.79
60-70	811.73
70-80	446.34
80-90	174.23
90-100	72.04
100-110	36.13
110-120	8.21
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

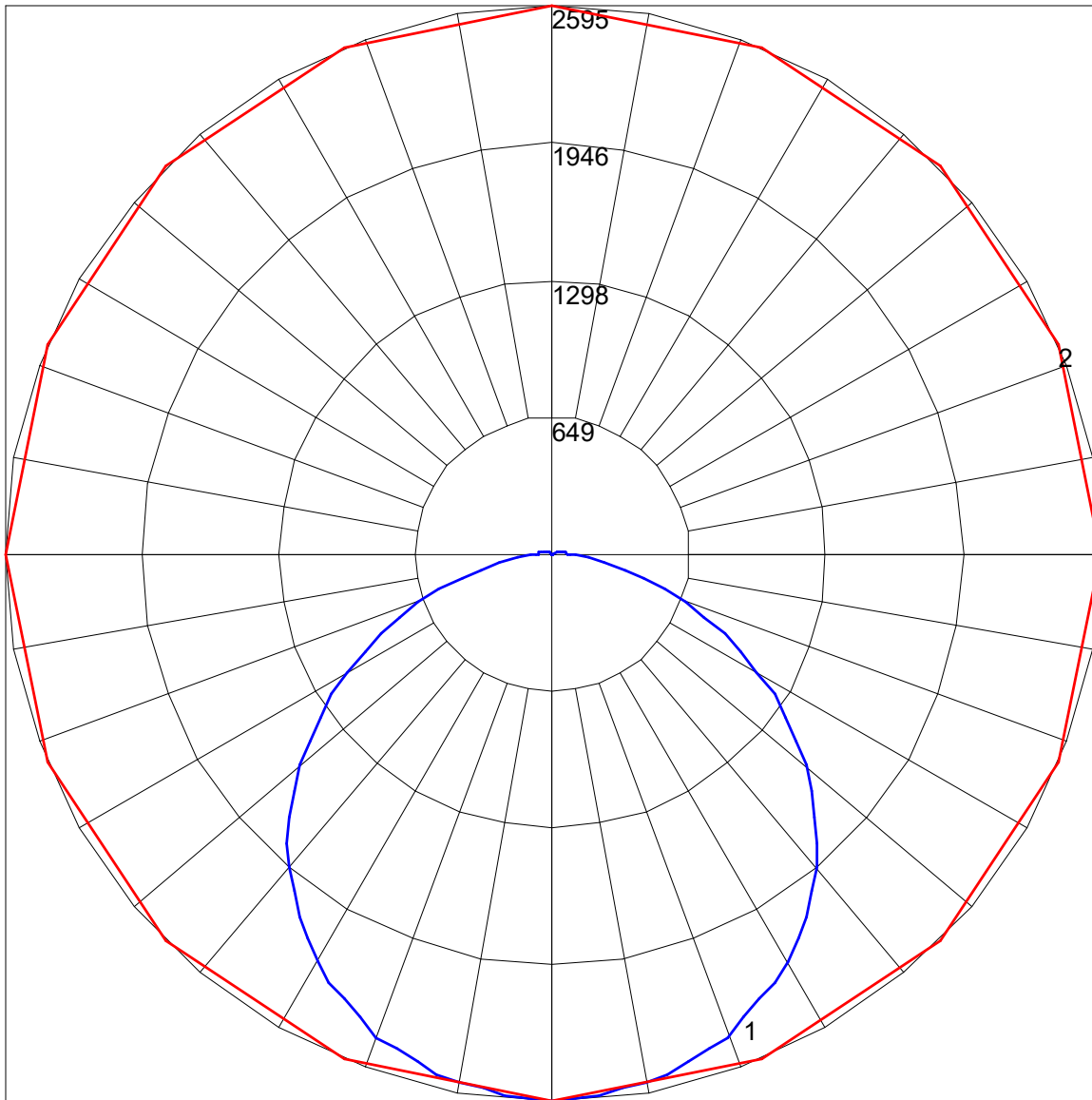
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 2595.133 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.)