



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS100L-4M-35K.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-35K

[LUMINAIRE] BS100L-4M-35K

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

[BURNING] Vertical Base Up (6966 Luminaire Lumens)

[REFLECTOR] White Painted Plate

[LENS] Diffuse Convex Polycarbonate

[HOUSING] Molded Polymer

[NOMINAL COLOR] 3500 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	6966
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	143
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	11616	9388	8608
55	10823	8237	7340
65	9608	6699	5718
75	7456	4690	3706
85	4455	2827	2237

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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	2540.914	2540.914	2540.914	2540.914	2540.914	2540.914	2540.914	2540.914	2540.914
2.5	2525.628	2520.532	2518.834	2520.532	2515.438	2520.532	2518.834	2520.532	2525.628
5.0	2525.628	2518.834	2493.357	2491.658	2483.167	2491.658	2493.357	2518.834	2525.628
7.5	2500.151	2486.564	2479.769	2462.784	2471.278	2462.784	2479.769	2486.564	2500.151
10.0	2489.960	2469.579	2447.498	2430.514	2422.022	2430.514	2447.498	2469.579	2489.960
12.5	2479.769	2452.593	2405.036	2386.354	2372.765	2386.354	2405.036	2452.593	2479.769
15.0	2437.308	2406.736	2377.862	2348.987	2347.288	2348.987	2377.862	2406.736	2437.308
17.5	2413.529	2372.765	2332.002	2306.525	2291.240	2306.525	2332.002	2372.765	2413.529
20.0	2391.450	2337.097	2279.349	2255.571	2240.286	2255.571	2279.349	2337.097	2391.450
22.5	2330.304	2277.651	2241.983	2202.919	2196.126	2202.919	2241.983	2277.651	2330.304
25.0	2282.746	2230.093	2180.838	2148.567	2131.583	2148.567	2180.838	2230.093	2282.746
27.5	2247.080	2184.235	2112.899	2082.327	2065.344	2082.327	2112.899	2184.235	2247.080
30.0	2185.933	2109.503	2061.944	2017.786	2005.895	2017.786	2061.944	2109.503	2185.933
32.5	2123.091	2046.659	1992.309	1949.847	1934.561	1949.847	1992.309	2046.659	2123.091
35.0	2058.548	1982.117	1914.178	1873.415	1851.335	1873.415	1914.178	1982.117	2058.548
37.5	1978.721	1893.795	1847.939	1798.683	1783.396	1798.683	1847.939	1893.795	1978.721
40.0	1907.384	1819.064	1764.712	1720.552	1696.773	1720.552	1764.712	1819.064	1907.384
42.5	1822.461	1740.934	1679.790	1628.836	1605.056	1628.836	1679.790	1740.934	1822.461
45.0	1723.950	1644.121	1601.660	1545.610	1525.227	1545.610	1601.660	1644.121	1723.950
47.5	1630.534	1554.102	1506.546	1452.192	1428.415	1452.192	1506.546	1554.102	1630.534
50.0	1532.023	1464.083	1408.034	1357.079	1329.903	1357.079	1408.034	1464.083	1532.023
52.5	1423.319	1357.079	1319.713	1263.663	1239.885	1263.663	1319.713	1357.079	1423.319
55.0	1319.713	1256.868	1216.106	1163.453	1139.674	1163.453	1216.106	1256.868	1319.713
57.5	1221.202	1156.659	1109.102	1059.846	1034.368	1059.846	1109.102	1156.659	1221.202
60.0	1100.610	1044.560	1013.989	959.637	939.254	959.637	1013.989	1044.560	1100.610
62.5	986.812	946.050	906.985	859.426	835.648	859.426	906.985	946.050	986.812
65.0	881.508	840.744	805.076	759.217	735.437	759.217	805.076	840.744	881.508
67.5	764.312	732.041	704.866	660.706	638.625	660.706	704.866	732.041	764.312
70.0	660.706	630.133	604.655	560.496	538.415	560.496	604.655	630.133	660.706
72.5	550.305	533.321	502.749	467.080	448.396	467.080	502.749	533.321	550.305
75.0	438.206	433.111	417.824	380.457	363.473	380.457	417.824	433.111	438.206
77.5	339.695	346.489	331.202	304.026	288.740	304.026	331.202	346.489	339.695
80.0	247.977	268.359	258.169	239.484	227.594	239.484	258.169	268.359	247.977
82.5	168.149	203.817	198.720	190.230	185.133	190.230	198.720	203.817	168.149
85.0	107.003	154.561	156.260	149.465	144.370	149.465	156.260	154.561	107.003
87.5	77.280	120.593	122.291	122.572	118.893	122.572	122.291	120.593	77.280
90.0	64.542	93.416	95.114	98.512	96.812	98.512	95.114	93.416	64.542
92.5	59.447	73.035	78.130	81.526	79.828	81.526	78.130	73.035	59.447
95.0	54.350	59.447	61.147	66.240	67.938	66.240	61.147	59.447	54.350
97.5	45.859	49.256	50.954	57.747	59.447	57.747	50.954	49.256	45.859
100.0	42.462	40.764	42.462	47.558	50.954	47.558	42.462	40.764	42.462
102.5	33.970	33.970	39.065	44.160	44.160	44.160	39.065	33.970	33.970
105.0	28.874	27.176	30.571	37.367	39.065	37.367	30.571	27.176	28.874
107.5	23.779	23.779	25.478	32.269	33.970	32.269	25.478	23.779	23.779
110.0	20.383	20.383	23.779	28.874	30.571	28.874	23.779	20.383	20.383
112.5	16.984	15.286	18.682	22.081	25.478	22.081	18.682	15.286	16.984
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	909.27	N.A.	13.10
0-30	1919.44	N.A.	27.60
0-40	3127.44	N.A.	44.90
0-60	5449.58	N.A.	78.20
0-80	6681.36	N.A.	95.90
0-90	6851.95	N.A.	98.40
10-90	6614.68	N.A.	95.00
20-40	2218.18	N.A.	31.80
20-50	3453.71	N.A.	49.60
40-70	3116.91	N.A.	44.70
60-80	1231.78	N.A.	17.70
70-80	437.01	N.A.	6.30
80-90	170.59	N.A.	2.40
90-110	105.91	N.A.	1.50
90-120	113.95	N.A.	1.60
90-130	113.95	N.A.	1.60
90-150	113.95	N.A.	1.60
90-180	113.95	N.A.	1.60
110-180	8.04	N.A.	0.10
0-180	6965.9	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	237.27
10-20	672.00
20-30	1010.18
30-40	1208.00
40-50	1235.54
50-60	1086.6
60-70	794.77
70-80	437.01
80-90	170.59
90-100	70.54
100-110	35.37
110-120	8.04
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

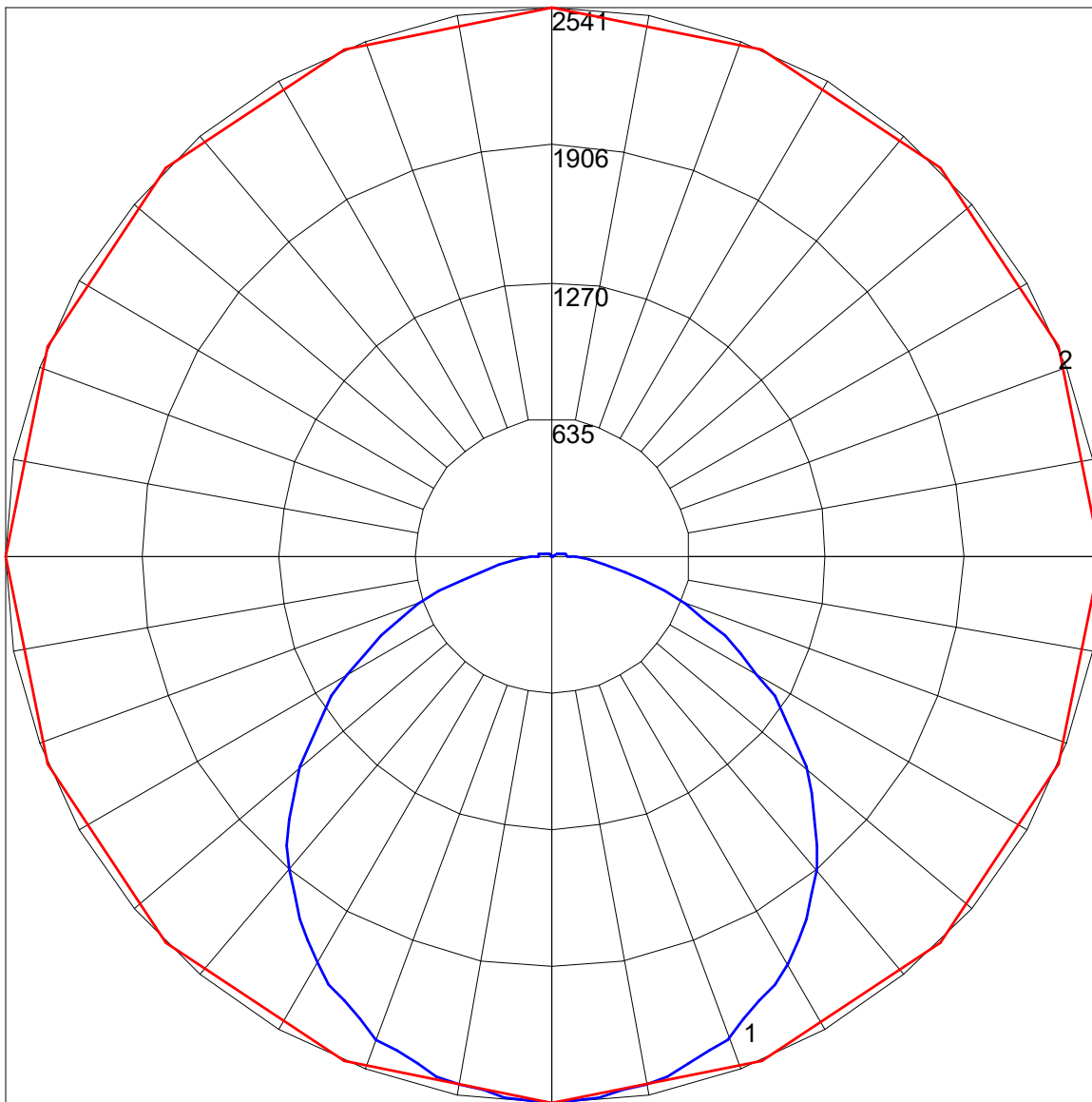
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 2540.914 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.)