



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS100L-4L-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-4L-4K

[LUMINAIRE] BS100L-4L-4K

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

[BURNING] Vertical Base Up (6513 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	6513
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	163
Total Luminaire Watts	40
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	10861	8778	8049
55	10120	7702	6863
65	8984	6263	5346
75	6971	4386	3465
85	4166	2643	2091

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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	2375.800	2375.800	2375.800	2375.800	2375.800	2375.800	2375.800	2375.800	2375.800
2.5	2361.507	2356.742	2355.154	2356.742	2351.979	2356.742	2355.154	2356.742	2361.507
5.0	2361.507	2355.154	2331.332	2329.745	2321.805	2329.745	2331.332	2355.154	2361.507
7.5	2337.685	2324.981	2318.628	2302.747	2310.688	2302.747	2318.628	2324.981	2337.685
10.0	2328.157	2309.100	2288.454	2272.574	2264.633	2272.574	2288.454	2309.100	2328.157
12.5	2318.628	2293.218	2248.752	2231.283	2218.577	2231.283	2248.752	2293.218	2318.628
15.0	2278.926	2250.340	2223.343	2196.344	2194.756	2196.344	2223.343	2250.340	2278.926
17.5	2256.692	2218.577	2180.464	2156.642	2142.350	2156.642	2180.464	2218.577	2256.692
20.0	2236.048	2185.227	2131.232	2108.999	2094.707	2108.999	2131.232	2185.227	2236.048
22.5	2178.876	2129.644	2096.293	2059.768	2053.416	2059.768	2096.293	2129.644	2178.876
25.0	2134.408	2085.177	2039.122	2008.948	1993.068	2008.948	2039.122	2085.177	2134.408
27.5	2101.059	2042.299	1975.599	1947.013	1931.132	1947.013	1975.599	2042.299	2101.059
30.0	2043.887	1972.423	1927.954	1886.665	1875.548	1886.665	1927.954	1972.423	2043.887
32.5	1985.127	1913.662	1862.843	1823.141	1808.849	1823.141	1862.843	1913.662	1985.127
35.0	1924.779	1853.315	1789.790	1751.676	1731.031	1751.676	1789.790	1853.315	1924.779
37.5	1850.139	1770.732	1727.855	1681.800	1667.507	1681.800	1727.855	1770.732	1850.139
40.0	1783.438	1700.857	1650.037	1608.747	1586.513	1608.747	1650.037	1700.857	1783.438
42.5	1704.033	1627.804	1570.633	1522.990	1500.756	1522.990	1570.633	1627.804	1704.033
45.0	1611.923	1537.282	1497.580	1445.173	1426.115	1445.173	1497.580	1537.282	1611.923
47.5	1524.578	1453.113	1408.647	1357.826	1335.594	1357.826	1408.647	1453.113	1524.578
50.0	1432.469	1368.943	1316.536	1268.892	1243.483	1268.892	1316.536	1368.943	1432.469
52.5	1330.829	1268.892	1233.955	1181.547	1159.314	1181.547	1233.955	1268.892	1330.829
55.0	1233.955	1175.194	1137.080	1087.849	1065.615	1087.849	1137.080	1175.194	1233.955
57.5	1141.846	1081.497	1037.030	990.975	967.153	990.975	1037.030	1081.497	1141.846
60.0	1029.090	976.682	948.097	897.278	878.220	897.278	948.097	976.682	1029.090
62.5	922.687	884.574	848.047	803.579	781.346	803.579	848.047	884.574	922.687
65.0	824.225	786.111	752.760	709.881	687.647	709.881	752.760	786.111	824.225
67.5	714.646	684.471	659.062	617.772	597.126	617.772	659.062	684.471	714.646
70.0	617.772	589.185	565.363	524.074	503.428	524.074	565.363	589.185	617.772
72.5	514.544	498.664	470.079	436.729	419.258	436.729	470.079	498.664	514.544
75.0	409.731	404.966	390.672	355.734	339.854	355.734	390.672	404.966	409.731
77.5	317.621	323.973	309.679	284.270	269.977	284.270	309.679	323.973	317.621
80.0	231.863	250.920	241.392	223.921	212.805	223.921	241.392	250.920	231.863
82.5	157.222	190.573	185.807	177.869	173.103	177.869	185.807	190.573	157.222
85.0	100.050	144.518	146.106	139.752	134.988	139.752	146.106	144.518	100.050
87.5	72.258	112.756	114.344	114.607	111.167	114.607	114.344	112.756	72.258
90.0	60.347	87.345	88.933	92.110	90.521	92.110	88.933	87.345	60.347
92.5	55.585	68.289	73.053	76.229	74.641	76.229	73.053	68.289	55.585
95.0	50.819	55.585	57.173	61.935	63.523	61.935	57.173	55.585	50.819
97.5	42.879	46.055	47.643	53.995	55.585	53.995	47.643	46.055	42.879
100.0	39.702	38.114	39.702	44.467	47.643	44.467	39.702	38.114	39.702
102.5	31.763	31.763	36.526	41.290	41.290	41.290	36.526	31.763	31.763
105.0	26.998	25.410	28.585	34.939	36.526	34.939	28.585	25.410	26.998
107.5	22.234	22.234	23.822	30.173	31.763	30.173	23.822	22.234	22.234
110.0	19.058	19.058	22.234	26.998	28.585	26.998	22.234	19.058	19.058
112.5	15.880	14.292	17.468	20.646	23.822	20.646	17.468	14.292	15.880
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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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	850.18	N.A.	13.10
0-30	1794.71	N.A.	27.60
0-40	2924.21	N.A.	44.90
0-60	5095.45	N.A.	78.20
0-80	6247.19	N.A.	95.90
0-90	6406.69	N.A.	98.40
10-90	6184.85	N.A.	95.00
20-40	2074.03	N.A.	31.80
20-50	3229.28	N.A.	49.60
40-70	2914.36	N.A.	44.70
60-80	1151.74	N.A.	17.70
70-80	408.62	N.A.	6.30
80-90	159.50	N.A.	2.40
90-110	99.03	N.A.	1.50
90-120	106.54	N.A.	1.60
90-130	106.54	N.A.	1.60
90-150	106.54	N.A.	1.60
90-180	106.54	N.A.	1.60
110-180	7.52	N.A.	0.10
0-180	6513.24	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	221.85
10-20	628.33
20-30	944.53
30-40	1129.5
40-50	1155.25
50-60	1015.99
60-70	743.12
70-80	408.62
80-90	159.50
90-100	65.95
100-110	33.07
110-120	7.52
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

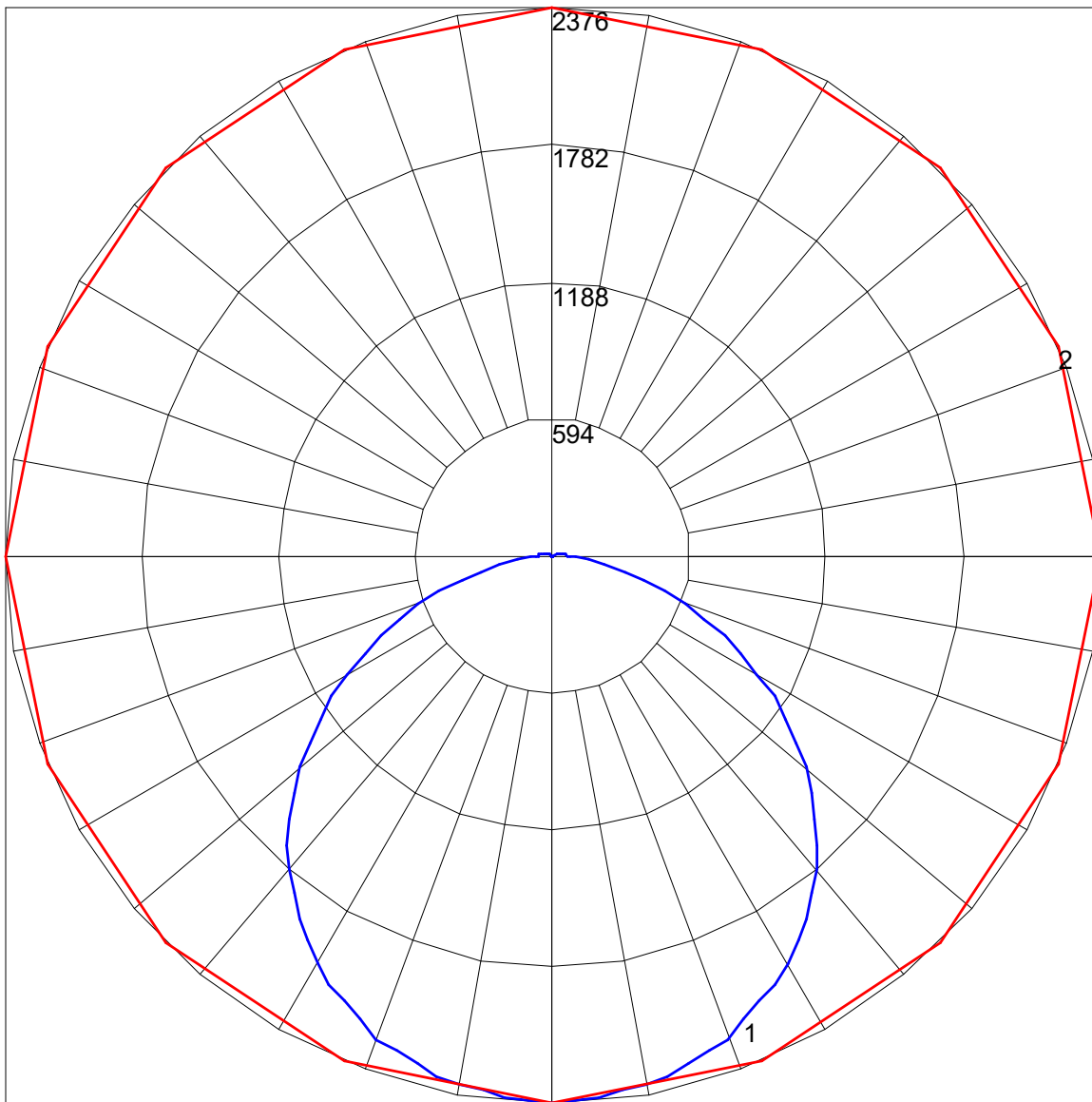
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 2375.8 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.)