



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS100L-4L-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-4L-3K

[LUMINAIRE] BS100L-4L-3K

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

[BURNING] Vertical Base Up (6185 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	6185
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	155
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	10314	8337	7644
55	9611	7314	6518
65	8531	5948	5077
75	6620	4165	3291
85	3956	2510	1986

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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>
<b>0.0</b>	2256.220	2256.220	2256.220	2256.220	2256.220	2256.220	2256.220	2256.220	2256.220
<b>2.5</b>	2242.647	2238.122	2236.614	2238.122	2233.598	2238.122	2236.614	2238.122	2242.647
<b>5.0</b>	2242.647	2236.614	2213.991	2212.483	2204.943	2212.483	2213.991	2236.614	2242.647
<b>7.5</b>	2220.024	2207.959	2201.926	2186.844	2194.386	2186.844	2201.926	2207.959	2220.024
<b>10.0</b>	2210.975	2192.878	2173.271	2158.190	2150.649	2158.190	2173.271	2192.878	2210.975
<b>12.5</b>	2201.926	2177.795	2135.567	2118.977	2106.911	2118.977	2135.567	2177.795	2201.926
<b>15.0</b>	2164.222	2137.075	2111.437	2085.797	2084.289	2085.797	2111.437	2137.075	2164.222
<b>17.5</b>	2143.107	2106.911	2070.716	2048.093	2034.520	2048.093	2070.716	2106.911	2143.107
<b>20.0</b>	2123.502	2075.239	2023.962	2002.848	1989.275	2002.848	2023.962	2075.239	2123.502
<b>22.5</b>	2069.208	2022.454	1990.782	1956.095	1950.063	1956.095	1990.782	2022.454	2069.208
<b>25.0</b>	2026.978	1980.225	1936.488	1907.833	1892.752	1907.833	1936.488	1980.225	2026.978
<b>27.5</b>	1995.308	1939.505	1876.162	1849.015	1833.934	1849.015	1876.162	1939.505	1995.308
<b>30.0</b>	1941.013	1873.146	1830.916	1791.705	1781.147	1791.705	1830.916	1873.146	1941.013
<b>32.5</b>	1885.211	1817.343	1769.082	1731.378	1717.805	1731.378	1769.082	1817.343	1885.211
<b>35.0</b>	1827.900	1760.033	1699.706	1663.510	1643.904	1663.510	1699.706	1760.033	1827.900
<b>37.5</b>	1757.017	1681.607	1640.888	1597.151	1583.577	1597.151	1640.888	1681.607	1757.017
<b>40.0</b>	1693.673	1615.249	1566.987	1527.775	1506.660	1527.775	1566.987	1615.249	1693.673
<b>42.5</b>	1618.265	1545.873	1491.579	1446.334	1425.219	1446.334	1491.579	1545.873	1618.265
<b>45.0</b>	1530.791	1459.907	1422.203	1372.434	1354.335	1372.434	1422.203	1459.907	1530.791
<b>47.5</b>	1447.842	1379.974	1337.746	1289.483	1268.370	1289.483	1337.746	1379.974	1447.842
<b>50.0</b>	1360.369	1300.041	1250.272	1205.026	1180.896	1205.026	1300.041	1360.369	1360.369
<b>52.5</b>	1263.845	1205.026	1171.847	1122.077	1100.963	1122.077	1171.847	1205.026	1263.845
<b>55.0</b>	1171.847	1116.044	1079.848	1033.095	1011.980	1033.095	1079.848	1116.044	1171.847
<b>57.5</b>	1084.374	1027.063	984.834	941.097	918.474	941.097	984.834	1027.063	1084.374
<b>60.0</b>	977.293	927.523	900.377	852.116	834.017	852.116	900.377	927.523	977.293
<b>62.5</b>	876.246	840.051	805.363	763.133	742.019	763.133	805.363	840.051	876.246
<b>65.0</b>	782.740	746.544	714.872	674.151	653.036	674.151	714.872	746.544	782.740
<b>67.5</b>	678.676	650.020	625.890	586.678	567.071	586.678	625.890	650.020	678.676
<b>70.0</b>	586.678	559.530	536.907	497.696	478.089	497.696	536.907	559.530	586.678
<b>72.5</b>	488.646	473.565	446.419	414.747	398.156	414.747	446.419	473.565	488.646
<b>75.0</b>	389.108	384.583	371.009	337.829	322.748	337.829	371.009	384.583	389.108
<b>77.5</b>	301.634	307.667	294.092	269.962	256.388	269.962	294.092	307.667	301.634
<b>80.0</b>	220.193	238.291	229.242	212.651	202.094	212.651	229.242	238.291	220.193
<b>82.5</b>	149.309	180.981	176.455	168.916	164.390	168.916	176.455	180.981	149.309
<b>85.0</b>	95.014	137.244	138.752	132.718	128.194	132.718	138.752	137.244	95.014
<b>87.5</b>	68.621	107.081	108.589	108.839	105.572	108.839	108.589	107.081	68.621
<b>90.0</b>	57.310	82.949	84.457	87.474	85.965	87.474	84.457	82.949	57.310
<b>92.5</b>	52.787	64.852	69.376	72.392	70.884	72.392	69.376	64.852	52.787
<b>95.0</b>	48.261	52.787	54.295	58.818	60.326	58.818	54.295	52.787	48.261
<b>97.5</b>	40.721	43.737	45.245	51.277	52.787	51.277	45.245	43.737	40.721
<b>100.0</b>	37.704	36.196	37.704	42.229	45.245	42.229	37.704	36.196	37.704
<b>102.5</b>	30.164	30.164	34.688	39.212	39.212	39.212	34.688	30.164	30.164
<b>105.0</b>	25.639	24.131	27.146	33.180	34.688	33.180	27.146	24.131	25.639
<b>107.5</b>	21.115	21.115	22.623	28.654	30.164	28.654	22.623	21.115	21.115
<b>110.0</b>	18.099	18.099	21.115	25.639	27.146	25.639	21.115	18.099	18.099
<b>112.5</b>	15.081	13.573	16.589	19.607	22.623	19.607	16.589	13.573	15.081
<b>115.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>117.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>120.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>122.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>125.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>127.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>130.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>132.5</b>	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	807.39	N.A.	13.10
0-30	1704.38	N.A.	27.60
0-40	2777.03	N.A.	44.90
0-60	4838.99	N.A.	78.20
0-80	5932.76	N.A.	95.90
0-90	6084.23	N.A.	98.40
10-90	5873.55	N.A.	95.00
20-40	1969.64	N.A.	31.80
20-50	3066.74	N.A.	49.60
40-70	2767.68	N.A.	44.70
60-80	1093.77	N.A.	17.70
70-80	388.05	N.A.	6.30
80-90	151.47	N.A.	2.40
90-110	94.04	N.A.	1.50
90-120	101.18	N.A.	1.60
90-130	101.18	N.A.	1.60
90-150	101.18	N.A.	1.60
90-180	101.18	N.A.	1.60
110-180	7.14	N.A.	0.10
0-180	6185.41	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	210.68
10-20	596.71
20-30	896.99
30-40	1072.65
40-50	1097.1
50-60	964.86
60-70	705.72
70-80	388.05
80-90	151.47
90-100	62.63
100-110	31.41
110-120	7.14
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

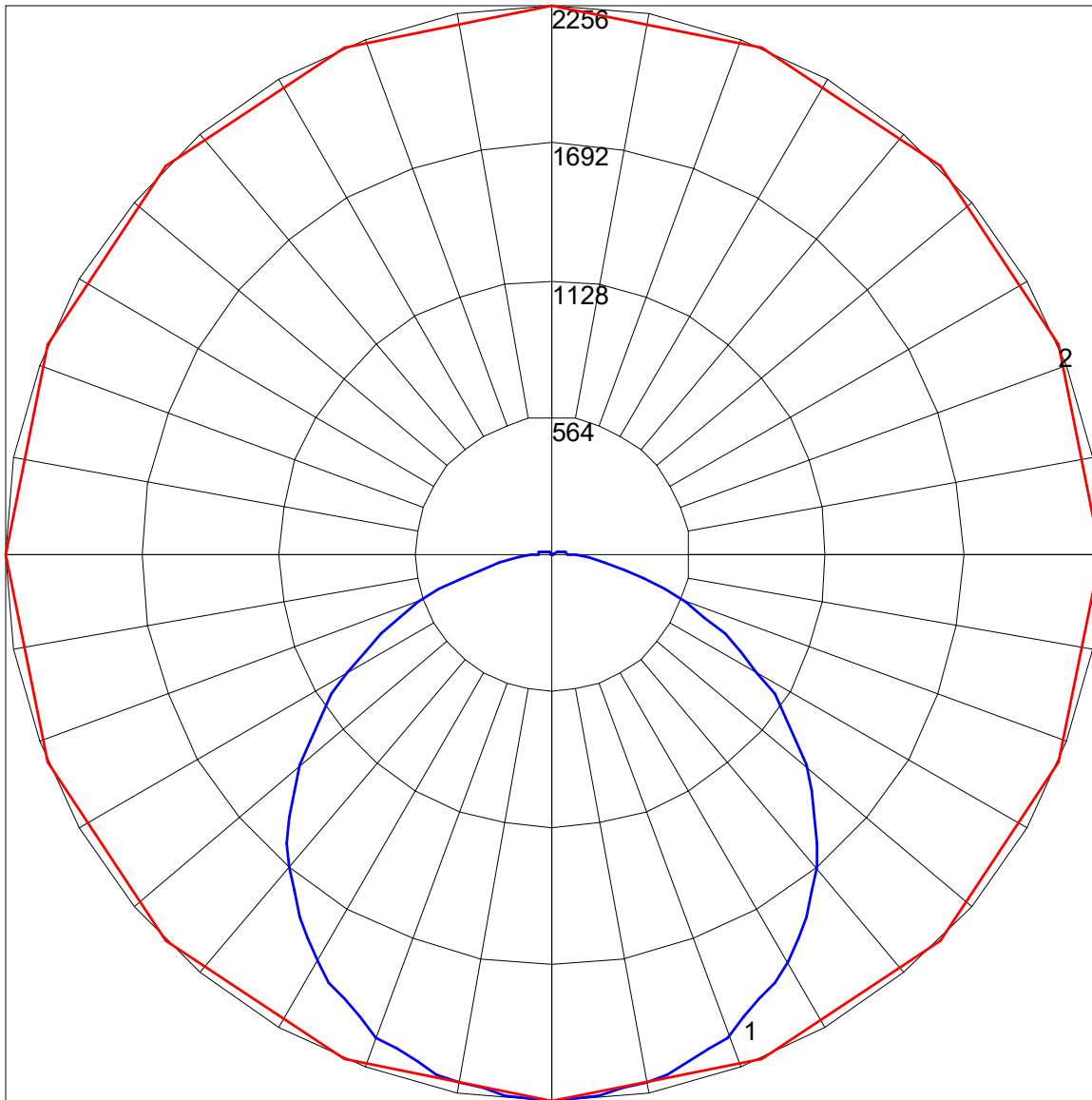
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	104	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 = 2256.22 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.)