



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS100L-4M-3K.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[ISSUE DATE] 24 August 2020

[TEST LAB] Spectra Lux

[TEST] S2008242-R1 CONFIG

[MANUFACT] Beluce Canada Inc.

[LUMCAT] BS100L-4M-3K

[LUMINAIRE] BS100L-4M-3K

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

[BURNING] Vertical Base Up (6756 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	6756
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	139
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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BS100L-4M-3K.IES

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	11267	9106	8349
55	10498	7990	7120
65	9319	6497	5546
75	7231	4549	3595
85	4321	2742	2169

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BS100L-4M-3K.IES

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	2464.514	2464.514	2464.514	2464.514	2464.514	2464.514	2464.514	2464.514	2464.514
2.5	2449.688	2444.745	2443.098	2444.745	2439.804	2444.745	2443.098	2444.745	2449.688
5.0	2449.688	2443.098	2418.387	2416.739	2408.503	2416.739	2418.387	2443.098	2449.688
7.5	2424.977	2411.798	2405.208	2388.733	2396.972	2388.733	2405.208	2411.798	2424.977
10.0	2415.092	2395.324	2373.907	2357.434	2349.197	2357.434	2373.907	2395.324	2415.092
12.5	2405.208	2378.849	2332.722	2314.601	2301.421	2314.601	2332.722	2378.849	2405.208
15.0	2364.023	2334.370	2306.365	2278.358	2276.710	2278.358	2306.365	2334.370	2364.023
17.5	2340.959	2301.421	2261.884	2237.173	2222.347	2237.173	2261.884	2301.421	2340.959
20.0	2319.544	2266.825	2210.814	2187.751	2172.925	2187.751	2210.814	2266.825	2319.544
22.5	2260.237	2209.167	2174.571	2136.682	2130.093	2136.682	2174.571	2209.167	2260.237
25.0	2214.109	2163.039	2115.265	2083.964	2067.491	2083.964	2115.265	2163.039	2214.109
27.5	2179.515	2118.560	2049.369	2019.716	2003.243	2019.716	2049.369	2118.560	2179.515
30.0	2120.207	2046.075	1999.946	1957.115	1945.582	1957.115	1999.946	2046.075	2120.207
32.5	2059.254	1985.120	1932.404	1891.219	1876.393	1891.219	1932.404	1985.120	2059.254
35.0	1996.652	1922.519	1856.623	1817.085	1795.669	1817.085	1856.623	1922.519	1996.652
37.5	1919.225	1836.853	1792.375	1744.600	1729.773	1744.600	1792.375	1836.853	1919.225
40.0	1850.033	1764.369	1711.651	1668.819	1645.755	1668.819	1711.651	1764.369	1850.033
42.5	1767.663	1688.588	1629.282	1579.860	1556.795	1579.860	1629.282	1688.588	1767.663
45.0	1672.114	1594.686	1553.501	1499.137	1479.367	1499.137	1553.501	1594.686	1672.114
47.5	1581.507	1507.373	1461.247	1408.528	1385.466	1408.528	1461.247	1507.373	1581.507
50.0	1485.958	1420.061	1365.697	1316.274	1289.916	1316.274	1365.697	1420.061	1485.958
52.5	1380.523	1316.274	1280.032	1225.667	1202.604	1225.667	1280.032	1316.274	1380.523
55.0	1280.032	1219.077	1179.540	1128.470	1105.406	1128.470	1179.540	1219.077	1280.032
57.5	1184.483	1121.881	1075.754	1027.979	1003.267	1027.979	1075.754	1121.881	1184.483
60.0	1067.517	1013.152	983.500	930.783	911.013	930.783	983.500	1013.152	1067.517
62.5	957.141	917.604	879.714	833.585	810.522	833.585	879.714	917.604	957.141
65.0	855.003	815.465	780.869	736.389	713.324	736.389	780.869	815.465	855.003
67.5	741.331	710.030	683.672	640.840	619.423	640.840	683.672	710.030	741.331
70.0	640.840	611.186	586.474	543.643	522.226	543.643	586.474	611.186	640.840
72.5	533.758	517.285	487.632	453.036	434.914	453.036	487.632	517.285	533.758
75.0	425.030	420.088	405.261	369.017	352.544	369.017	405.261	420.088	425.030
77.5	329.481	336.071	321.243	294.885	280.058	294.885	321.243	336.071	329.481
80.0	240.521	260.290	250.406	232.283	220.751	232.283	250.406	260.290	240.521
82.5	163.093	197.689	192.745	184.510	179.566	184.510	192.745	197.689	163.093
85.0	103.786	149.914	151.562	144.971	140.029	144.971	151.562	149.914	103.786
87.5	74.956	116.967	118.614	118.887	115.318	118.887	118.614	116.967	74.956
90.0	62.601	90.607	92.254	95.550	93.901	95.550	92.254	90.607	62.601
92.5	57.660	70.839	75.781	79.075	77.428	79.075	75.781	70.839	57.660
95.0	52.716	57.660	59.308	64.248	65.895	64.248	59.308	57.660	52.716
97.5	44.480	47.775	49.422	56.011	57.660	56.011	49.422	47.775	44.480
100.0	41.185	39.538	41.185	46.128	49.422	46.128	41.185	39.538	41.185
102.5	32.949	32.949	37.890	42.832	42.832	42.832	37.890	32.949	32.949
105.0	28.006	26.359	29.652	36.243	37.890	36.243	29.652	26.359	28.006
107.5	23.064	23.064	24.712	31.299	32.949	31.299	24.712	23.064	23.064
110.0	19.770	19.770	23.064	28.006	29.652	28.006	23.064	19.770	19.770
112.5	16.473	14.826	18.120	21.417	24.712	21.417	18.120	14.826	16.473
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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BS100L-4M-3K.IES

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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BS100L-4M-3K.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	881.93	N.A.	13.10
0-30	1861.73	N.A.	27.60
0-40	3033.41	N.A.	44.90
0-60	5285.72	N.A.	78.20
0-80	6480.47	N.A.	95.90
0-90	6645.93	N.A.	98.40
10-90	6415.79	N.A.	95.00
20-40	2151.48	N.A.	31.80
20-50	3349.87	N.A.	49.60
40-70	3023.19	N.A.	44.70
60-80	1194.75	N.A.	17.70
70-80	423.87	N.A.	6.30
80-90	165.46	N.A.	2.40
90-110	102.72	N.A.	1.50
90-120	110.52	N.A.	1.60
90-130	110.52	N.A.	1.60
90-150	110.52	N.A.	1.60
90-180	110.52	N.A.	1.60
110-180	7.80	N.A.	0.10
0-180	6756.45	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	230.13
10-20	651.79
20-30	979.80
30-40	1171.68
40-50	1198.39
50-60	1053.93
60-70	770.87
70-80	423.87
80-90	165.46
90-100	68.42
100-110	34.31
110-120	7.80
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

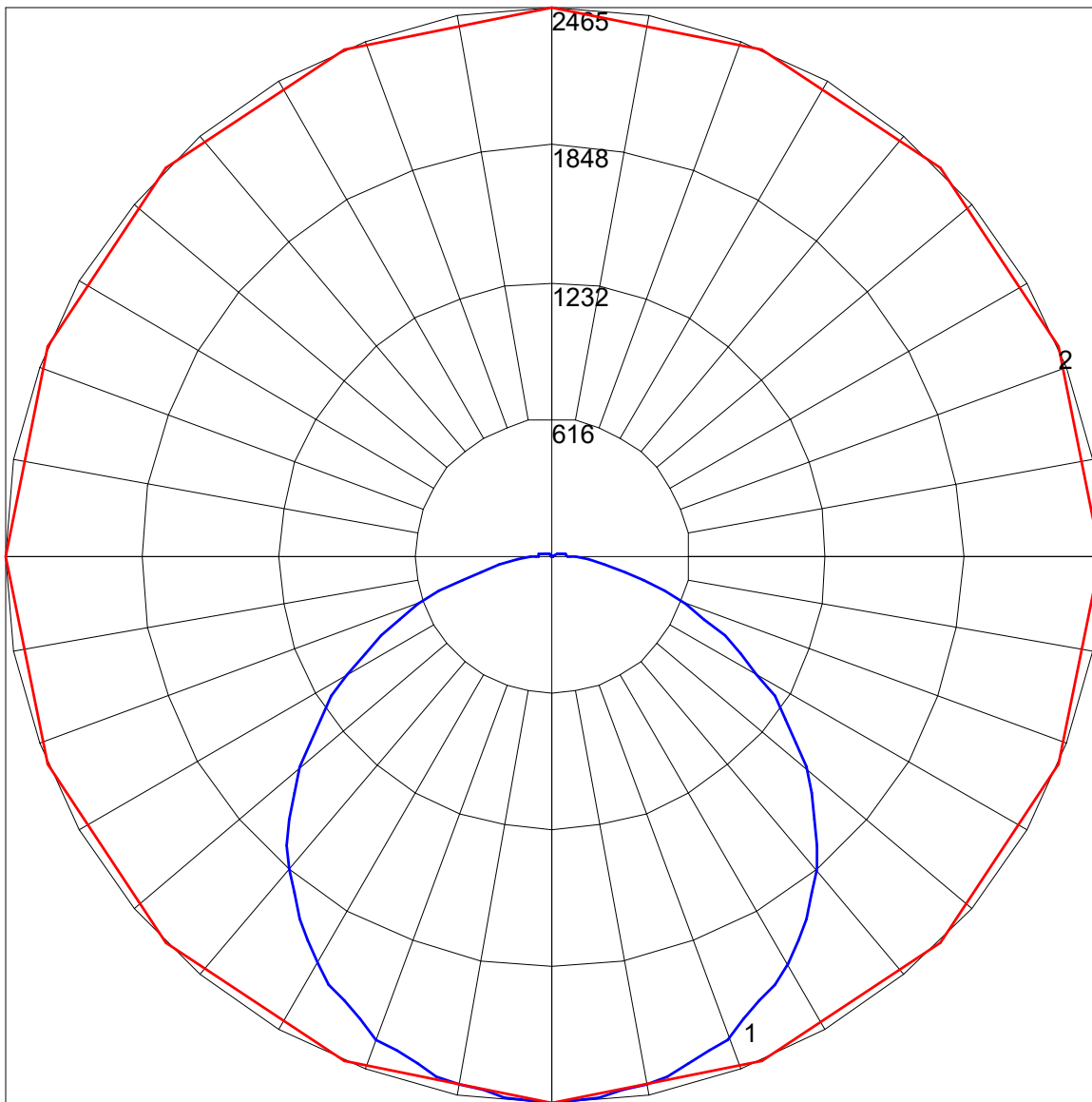
IES INDOOR REPORT
PHOTOMETRIC FILENAME : BS100L-4M-3K.IES

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 = 2464.514 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.)