



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS100L-4VL-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-4VL-4K  
 [LUMINAIRE] BS100L-4VL-4K  
 [LAMP] Clusters of Seoul STW8A2PD-E1 LEDs c/w Universal Driver D10CC30347TW-C  
 [BURNING] Vertical Base Up (4168 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	4168
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	151
Total Luminaire Watts	27.64
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-4VL-4K.IES**

**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	6950	5618	5151
55	6476	4929	4392
65	5749	4008	3421
75	4461	2806	2218
85	2666	1692	1338

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : BS100L-4VL-4K.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>
<b>0.0</b>	1520.358	1520.358	1520.358	1520.358	1520.358	1520.358	1520.358	1520.358	1520.358
<b>2.5</b>	1511.212	1508.162	1507.146	1508.162	1505.114	1508.162	1507.146	1508.162	1511.212
<b>5.0</b>	1511.212	1507.146	1491.902	1490.886	1485.805	1490.886	1491.902	1507.146	1511.212
<b>7.5</b>	1495.968	1487.837	1483.772	1473.609	1478.691	1473.609	1483.772	1487.837	1495.968
<b>10.0</b>	1489.870	1477.675	1464.463	1454.300	1449.219	1454.300	1464.463	1477.675	1489.870
<b>12.5</b>	1483.772	1467.511	1439.056	1427.876	1419.746	1427.876	1439.056	1467.511	1483.772
<b>15.0</b>	1458.365	1440.072	1422.796	1405.518	1404.502	1405.518	1422.796	1440.072	1458.365
<b>17.5</b>	1444.137	1419.746	1395.356	1380.111	1370.965	1380.111	1395.356	1419.746	1444.137
<b>20.0</b>	1430.926	1398.404	1363.851	1349.623	1340.476	1349.623	1363.851	1398.404	1430.926
<b>22.5</b>	1394.339	1362.835	1341.492	1318.118	1314.053	1318.118	1341.492	1362.835	1394.339
<b>25.0</b>	1365.883	1334.378	1304.906	1285.597	1275.435	1285.597	1304.906	1334.378	1365.883
<b>27.5</b>	1344.542	1306.939	1264.255	1245.962	1235.800	1245.962	1264.255	1306.939	1344.542
<b>30.0</b>	1307.955	1262.223	1233.766	1207.343	1200.229	1207.343	1233.766	1262.223	1307.955
<b>32.5</b>	1270.353	1224.620	1192.099	1166.692	1157.546	1166.692	1192.099	1224.620	1270.353
<b>35.0</b>	1231.734	1186.001	1145.350	1120.960	1107.748	1120.960	1145.350	1186.001	1231.734
<b>37.5</b>	1183.969	1133.154	1105.715	1076.243	1067.096	1076.243	1105.715	1133.154	1183.969
<b>40.0</b>	1141.285	1088.439	1055.917	1029.494	1015.266	1029.494	1055.917	1088.439	1141.285
<b>42.5</b>	1090.471	1041.690	1005.103	974.615	960.387	974.615	1005.103	1041.690	1090.471
<b>45.0</b>	1031.526	983.761	958.354	924.817	912.621	924.817	958.354	983.761	1031.526
<b>47.5</b>	975.631	929.898	901.443	868.921	854.694	868.921	901.443	929.898	975.631
<b>50.0</b>	916.687	876.035	842.498	812.009	795.749	812.009	842.498	876.035	916.687
<b>52.5</b>	851.644	812.009	789.651	756.114	741.886	756.114	789.651	812.009	851.644
<b>55.0</b>	789.651	752.048	727.658	696.153	681.925	696.153	727.658	752.048	789.651
<b>57.5</b>	730.707	692.088	663.632	634.160	618.915	634.160	663.632	692.088	730.707
<b>60.0</b>	658.550	625.013	606.721	574.200	562.004	574.200	606.721	625.013	658.550
<b>62.5</b>	590.460	566.070	542.695	514.239	500.011	514.239	542.695	566.070	590.460
<b>65.0</b>	527.451	503.060	481.718	454.278	440.050	454.278	481.718	503.060	527.451
<b>67.5</b>	457.327	438.017	421.757	395.334	382.122	395.334	421.757	438.017	457.327
<b>70.0</b>	395.334	377.040	361.796	335.373	322.161	335.373	361.796	377.040	395.334
<b>72.5</b>	329.275	319.113	300.820	279.478	268.298	279.478	300.820	319.113	329.275
<b>75.0</b>	262.201	259.152	250.005	227.647	217.485	227.647	250.005	259.152	262.201
<b>77.5</b>	203.256	207.322	198.175	181.914	172.768	181.914	198.175	207.322	203.256
<b>80.0</b>	148.377	160.573	154.475	143.295	136.181	143.295	154.475	160.573	148.377
<b>82.5</b>	100.612	121.954	118.905	113.824	110.775	113.824	118.905	121.954	100.612
<b>85.0</b>	64.026	92.482	93.498	89.432	86.384	89.432	93.498	92.482	64.026
<b>87.5</b>	46.240	72.157	73.173	73.341	71.140	73.341	73.173	72.157	46.240
<b>90.0</b>	38.619	55.895	56.911	58.945	57.928	58.945	56.911	55.895	38.619
<b>92.5</b>	35.570	43.701	46.749	48.781	47.765	48.781	46.749	43.701	35.570
<b>95.0</b>	32.521	35.570	36.586	39.635	40.651	39.635	36.586	35.570	32.521
<b>97.5</b>	27.440	29.472	30.489	34.553	35.570	34.553	30.489	29.472	27.440
<b>100.0</b>	25.407	24.391	25.407	28.456	30.489	28.456	25.407	24.391	25.407
<b>102.5</b>	20.326	20.326	23.374	26.423	26.423	26.423	23.374	20.326	20.326
<b>105.0</b>	17.277	16.260	18.293	22.358	23.374	22.358	18.293	16.260	17.277
<b>107.5</b>	14.228	14.228	15.244	19.309	20.326	19.309	15.244	14.228	14.228
<b>110.0</b>	12.196	12.196	14.228	17.277	18.293	17.277	14.228	12.196	12.196
<b>112.5</b>	10.163	9.146	11.179	13.212	15.244	13.212	11.179	9.146	10.163
<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

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : BS100L-4VL-4K.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-4VL-4K.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	544.06	N.A.	13.10
0-30	1148.5	N.A.	27.60
0-40	1871.31	N.A.	44.90
0-60	3260.76	N.A.	78.20
0-80	3997.8	N.A.	95.90
0-90	4099.87	N.A.	98.40
10-90	3957.9	N.A.	95.00
20-40	1327.25	N.A.	31.80
20-50	2066.53	N.A.	49.60
40-70	1865.00	N.A.	44.70
60-80	737.04	N.A.	17.70
70-80	261.49	N.A.	6.30
80-90	102.07	N.A.	2.40
90-110	63.37	N.A.	1.50
90-120	68.18	N.A.	1.60
90-130	68.18	N.A.	1.60
90-150	68.18	N.A.	1.60
90-180	68.18	N.A.	1.60
110-180	4.81	N.A.	0.10
0-180	4168.05	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	141.97
10-20	402.09
20-30	604.44
30-40	722.81
40-50	739.28
50-60	650.17
60-70	475.55
70-80	261.49
80-90	102.07
90-100	42.21
100-110	21.16
110-120	4.81
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

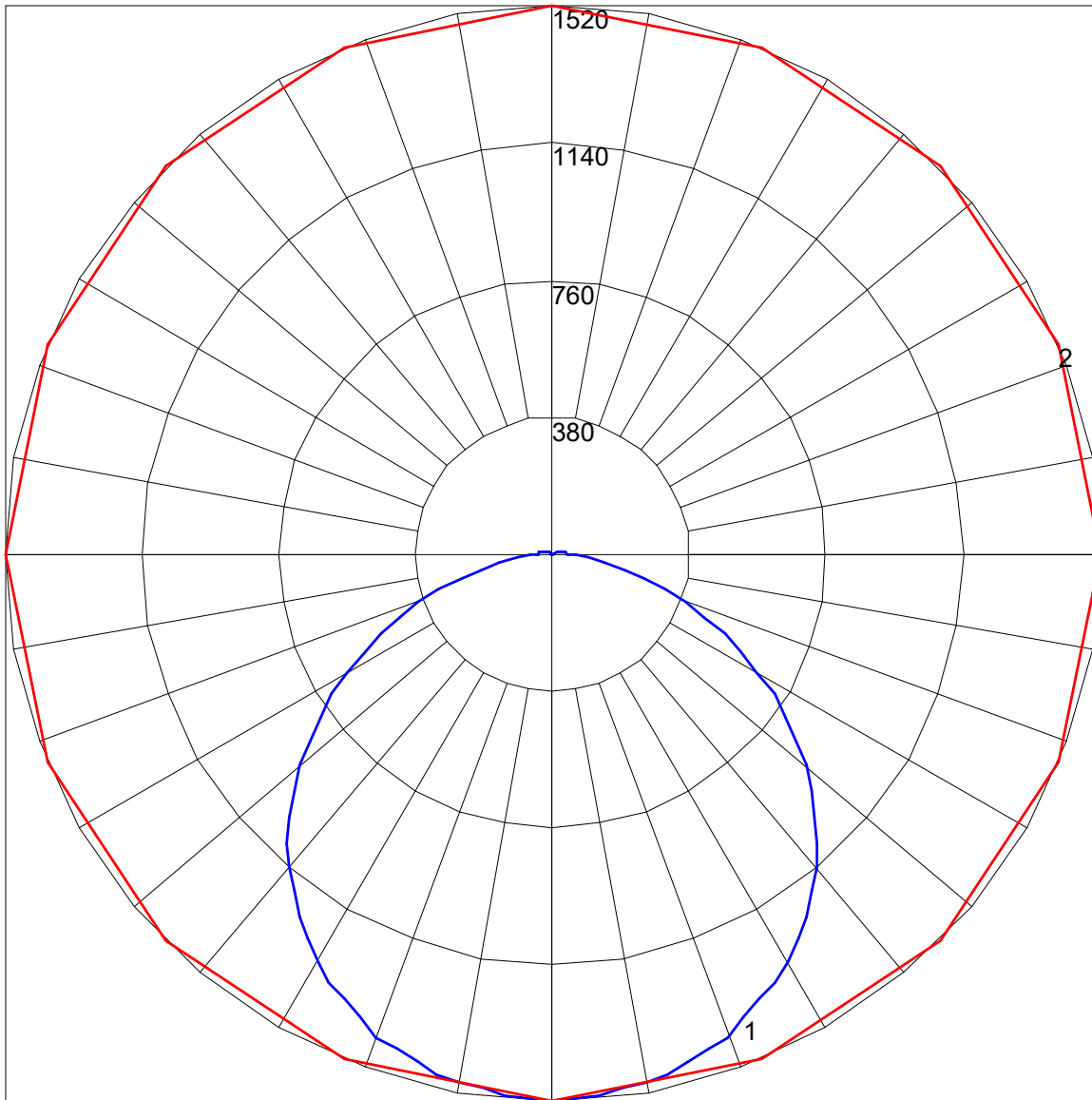
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : BS100L-4VL-4K.IES**

**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	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 = 1520.358 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.)