



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS100L-4VL-5K.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-5K  
 [LUMINAIRE] BS100L-4VL-5K  
 [LAMP] Clusters of Seoul STW8A2PD-E1 LEDs c/w Universal Driver D10CC30347TW-C  
 [BURNING] Vertical Base Up (4223 Luminaire Lumens)  
 [REFLECTOR] White Painted Plate  
 [LENS] Diffuse Convex Polycarbonate  
 [HOUSING] Molded Polymer  
 [NOMINAL COLOR] 5000 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	4223
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	153
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

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	7043	5692	5219
55	6562	4994	4451
65	5825	4061	3467
75	4520	2844	2247
85	2701	1714	1356

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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	1540.572	1540.572	1540.572	1540.572	1540.572	1540.572	1540.572	1540.572	1540.572
2.5	1531.304	1528.214	1527.184	1528.214	1525.125	1528.214	1527.184	1528.214	1531.304
5.0	1531.304	1527.184	1511.737	1510.708	1505.559	1510.708	1511.737	1527.184	1531.304
7.5	1515.857	1507.619	1503.499	1493.201	1498.351	1493.201	1503.499	1507.619	1515.857
10.0	1509.678	1497.321	1483.933	1473.636	1468.487	1473.636	1483.933	1497.321	1509.678
12.5	1503.499	1487.022	1458.189	1446.861	1438.622	1446.861	1458.189	1487.022	1503.499
15.0	1477.754	1459.219	1441.712	1424.205	1423.175	1424.205	1441.712	1459.219	1477.754
17.5	1463.337	1438.622	1413.907	1398.460	1389.192	1398.460	1413.907	1438.622	1463.337
20.0	1449.951	1416.996	1381.984	1367.566	1358.299	1367.566	1381.984	1416.996	1449.951
22.5	1412.878	1380.954	1359.328	1335.643	1331.524	1335.643	1359.328	1380.954	1412.878
25.0	1384.043	1352.120	1322.255	1302.690	1292.392	1302.690	1322.255	1352.120	1384.043
27.5	1362.418	1324.316	1281.064	1262.528	1252.230	1262.528	1281.064	1324.316	1362.418
30.0	1325.345	1279.004	1250.170	1223.396	1216.187	1223.396	1250.170	1279.004	1325.345
32.5	1287.243	1240.902	1207.949	1182.204	1172.936	1182.204	1207.949	1240.902	1287.243
35.0	1248.110	1201.770	1160.578	1135.863	1122.475	1135.863	1160.578	1201.770	1248.110
37.5	1199.710	1148.220	1120.416	1090.552	1081.284	1090.552	1120.416	1148.220	1199.710
40.0	1156.458	1102.910	1069.956	1043.181	1028.764	1043.181	1069.956	1102.910	1156.458
42.5	1104.969	1055.539	1018.466	987.573	973.155	987.573	1018.466	1055.539	1104.969
45.0	1045.241	996.841	971.096	937.113	924.755	937.113	971.096	996.841	1045.241
47.5	988.602	942.261	913.428	880.473	866.057	880.473	913.428	942.261	988.602
50.0	928.875	887.682	853.699	822.805	806.329	822.805	853.699	887.682	928.875
52.5	862.967	822.805	800.150	766.167	751.750	766.167	800.150	822.805	862.967
55.0	800.150	762.047	737.332	705.409	690.991	705.409	737.332	762.047	800.150
57.5	740.422	701.290	672.455	642.591	627.144	642.591	672.455	701.290	740.422
60.0	667.306	633.323	614.787	581.834	569.476	581.834	614.787	633.323	667.306
62.5	598.311	573.596	549.910	521.076	506.659	521.076	549.910	573.596	598.311
65.0	534.464	509.749	488.123	460.318	445.900	460.318	488.123	509.749	534.464
67.5	463.408	443.841	427.364	400.590	387.203	400.590	427.364	443.841	463.408
70.0	400.590	382.053	366.606	339.832	326.444	339.832	366.606	382.053	400.590
72.5	333.653	323.355	304.820	283.194	271.865	283.194	304.820	323.355	333.653
75.0	265.687	262.597	253.329	230.674	220.376	230.674	253.329	262.597	265.687
77.5	205.959	210.078	200.809	184.333	175.065	184.333	200.809	210.078	205.959
80.0	150.350	162.708	156.529	145.201	137.992	145.201	156.529	162.708	150.350
82.5	101.950	123.576	120.486	115.337	112.247	115.337	120.486	123.576	101.950
85.0	64.877	93.711	94.741	90.621	87.532	90.621	94.741	93.711	64.877
87.5	46.855	73.116	74.146	74.317	72.085	74.317	74.146	73.116	46.855
90.0	39.132	56.638	57.668	59.729	58.698	59.729	57.668	56.638	39.132
92.5	36.043	44.282	47.371	49.430	48.400	49.430	47.371	44.282	36.043
95.0	32.953	36.043	37.073	40.162	41.192	40.162	37.073	36.043	32.953
97.5	27.805	29.864	30.894	35.013	36.043	35.013	30.894	29.864	27.805
100.0	25.745	24.715	25.745	28.835	30.894	28.835	25.745	24.715	25.745
102.5	20.596	20.596	23.685	26.774	26.774	26.774	23.685	20.596	20.596
105.0	17.506	16.477	18.536	22.656	23.685	22.656	18.536	16.477	17.506
107.5	14.417	14.417	15.447	19.566	20.596	19.566	15.447	14.417	14.417
110.0	12.358	12.358	14.417	17.506	18.536	17.506	14.417	12.358	12.358
112.5	10.298	9.268	11.327	13.388	15.447	13.388	11.327	9.268	10.298
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	551.29	N.A.	13.10
0-30	1163.77	N.A.	27.60
0-40	1896.19	N.A.	44.90
0-60	3304.11	N.A.	78.20
0-80	4050.95	N.A.	95.90
0-90	4154.38	N.A.	98.40
10-90	4010.52	N.A.	95.00
20-40	1344.89	N.A.	31.80
20-50	2094.01	N.A.	49.60
40-70	1889.8	N.A.	44.70
60-80	746.84	N.A.	17.70
70-80	264.96	N.A.	6.30
80-90	103.43	N.A.	2.40
90-110	64.21	N.A.	1.50
90-120	69.09	N.A.	1.60
90-130	69.09	N.A.	1.60
90-150	69.09	N.A.	1.60
90-180	69.09	N.A.	1.60
110-180	4.87	N.A.	0.10
0-180	4223.47	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	143.86
10-20	407.44
20-30	612.48
30-40	732.42
40-50	749.11
50-60	658.81
60-70	481.87
70-80	264.96
80-90	103.43
90-100	42.77
100-110	21.45
110-120	4.87
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

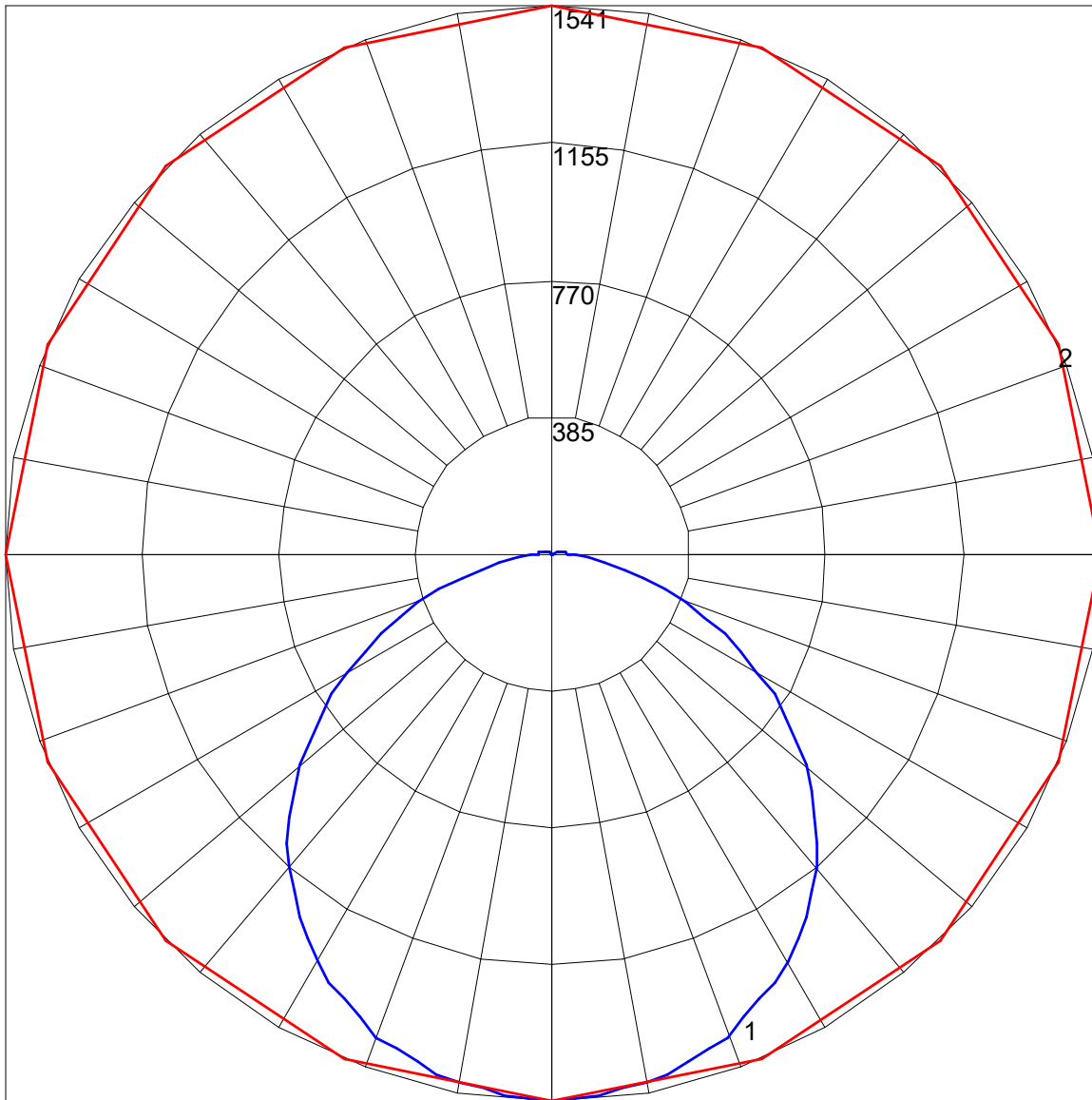
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	57	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 = 1540.572 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.)