



## IES INDOOR REPORT

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

[LUMINAIRE] BS100L-4VL-3K

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

[BURNING] Vertical Base Up (3958 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	3958
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	143
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	6601	5335	4892
55	6150	4681	4171
65	5460	3806	3249
75	4237	2665	2106
85	2532	1606	1271

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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	1443.835	1443.835	1443.835	1443.835	1443.835	1443.835	1443.835	1443.835	1443.835
2.5	1435.149	1432.253	1431.288	1432.253	1429.358	1432.253	1431.288	1432.253	1435.149
5.0	1435.149	1431.288	1416.811	1415.846	1411.021	1415.846	1416.811	1431.288	1435.149
7.5	1420.672	1412.951	1409.090	1399.439	1404.265	1399.439	1409.090	1412.951	1420.672
10.0	1414.881	1403.300	1390.753	1381.102	1376.276	1381.102	1390.753	1403.300	1414.881
12.5	1409.090	1393.648	1366.625	1356.008	1348.287	1356.008	1366.625	1393.648	1409.090
15.0	1384.962	1367.590	1351.183	1334.775	1333.810	1334.775	1351.183	1367.590	1384.962
17.5	1371.450	1348.287	1325.124	1310.647	1301.961	1310.647	1325.124	1348.287	1371.450
20.0	1358.904	1328.019	1295.205	1281.693	1273.007	1281.693	1295.205	1328.019	1358.904
22.5	1324.159	1294.240	1273.972	1251.774	1247.914	1251.774	1273.972	1294.240	1324.159
25.0	1297.135	1267.216	1239.227	1220.890	1211.239	1220.890	1239.227	1267.216	1297.135
27.5	1276.868	1241.158	1200.622	1183.250	1173.599	1183.250	1200.622	1241.158	1276.868
30.0	1242.123	1198.692	1171.668	1146.575	1139.819	1146.575	1171.668	1198.692	1242.123
32.5	1206.413	1162.982	1132.098	1107.970	1099.284	1107.970	1132.098	1162.982	1206.413
35.0	1169.738	1126.307	1087.702	1064.539	1051.992	1064.539	1087.702	1126.307	1169.738
37.5	1124.377	1076.120	1050.062	1022.073	1013.387	1022.073	1050.062	1076.120	1124.377
40.0	1083.841	1033.655	1002.770	977.677	964.165	977.677	1002.770	1033.655	1083.841
42.5	1035.585	989.259	954.514	925.560	912.048	925.560	954.514	989.259	1035.585
45.0	979.607	934.246	910.118	878.269	866.687	878.269	910.118	934.246	979.607
47.5	926.525	883.094	856.071	825.186	811.675	825.186	856.071	883.094	926.525
50.0	870.548	831.942	800.093	771.139	755.697	771.139	800.093	831.942	870.548
52.5	808.779	771.139	749.906	718.057	704.545	718.057	749.906	771.139	808.779
55.0	749.906	714.196	691.033	661.114	647.602	661.114	691.033	714.196	749.906
57.5	693.929	657.254	630.230	602.241	587.764	602.241	630.230	657.254	693.929
60.0	625.404	593.555	576.183	545.299	533.717	545.299	576.183	593.555	625.404
62.5	560.741	537.578	515.380	488.356	474.844	488.356	515.380	537.578	560.741
65.0	500.903	477.740	457.472	431.413	417.901	431.413	457.472	477.740	500.903
67.5	434.309	415.971	400.529	375.436	362.889	375.436	400.529	415.971	434.309
70.0	375.436	358.063	343.586	318.493	305.946	318.493	343.586	358.063	375.436
72.5	312.702	303.051	285.679	265.411	254.794	265.411	285.679	303.051	312.702
75.0	249.004	246.108	237.422	216.189	206.538	216.189	237.422	246.108	249.004
77.5	193.026	196.887	188.200	172.758	164.072	172.758	188.200	196.887	193.026
80.0	140.909	152.491	146.700	136.083	129.327	136.083	146.700	152.491	140.909
82.5	95.548	115.816	112.920	108.095	105.199	108.095	112.920	115.816	95.548
85.0	60.803	87.827	88.792	84.931	82.036	84.931	87.827	87.827	60.803
87.5	43.913	68.525	69.490	69.650	67.559	69.650	69.490	68.525	43.913
90.0	36.675	53.082	54.047	55.978	55.012	55.978	54.047	53.082	36.675
92.5	33.780	41.501	44.396	46.326	45.361	46.326	44.396	41.501	33.780
95.0	30.884	33.780	34.745	37.640	38.605	37.640	34.745	33.780	30.884
97.5	26.059	27.989	28.954	32.814	33.780	32.814	28.954	27.989	26.059
100.0	24.128	23.163	24.128	27.024	28.954	27.024	24.128	23.163	24.128
102.5	19.303	19.303	22.198	25.093	25.093	25.093	22.198	19.303	19.303
105.0	16.407	15.442	17.372	21.233	22.198	21.233	17.372	15.442	16.407
107.5	13.512	13.512	14.477	18.337	19.303	18.337	14.477	13.512	13.512
110.0	11.582	11.582	13.512	16.407	17.372	16.407	13.512	11.582	11.582
112.5	9.651	8.686	10.616	12.547	14.477	12.547	10.616	8.686	9.651
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	516.68	N.A.	13.10
0-30	1090.69	N.A.	27.60
0-40	1777.12	N.A.	44.90
0-60	3096.64	N.A.	78.20
0-80	3796.58	N.A.	95.90
0-90	3893.51	N.A.	98.40
10-90	3758.69	N.A.	95.00
20-40	1260.44	N.A.	31.80
20-50	1962.52	N.A.	49.60
40-70	1771.13	N.A.	44.70
60-80	699.94	N.A.	17.70
70-80	248.33	N.A.	6.30
80-90	96.93	N.A.	2.40
90-110	60.18	N.A.	1.50
90-120	64.75	N.A.	1.60
90-130	64.75	N.A.	1.60
90-150	64.75	N.A.	1.60
90-180	64.75	N.A.	1.60
110-180	4.57	N.A.	0.10
0-180	3958.26	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	134.82
10-20	381.85
20-30	574.02
30-40	686.43
40-50	702.07
50-60	617.45
60-70	451.61
70-80	248.33
80-90	96.93
90-100	40.08
100-110	20.10
110-120	4.57
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

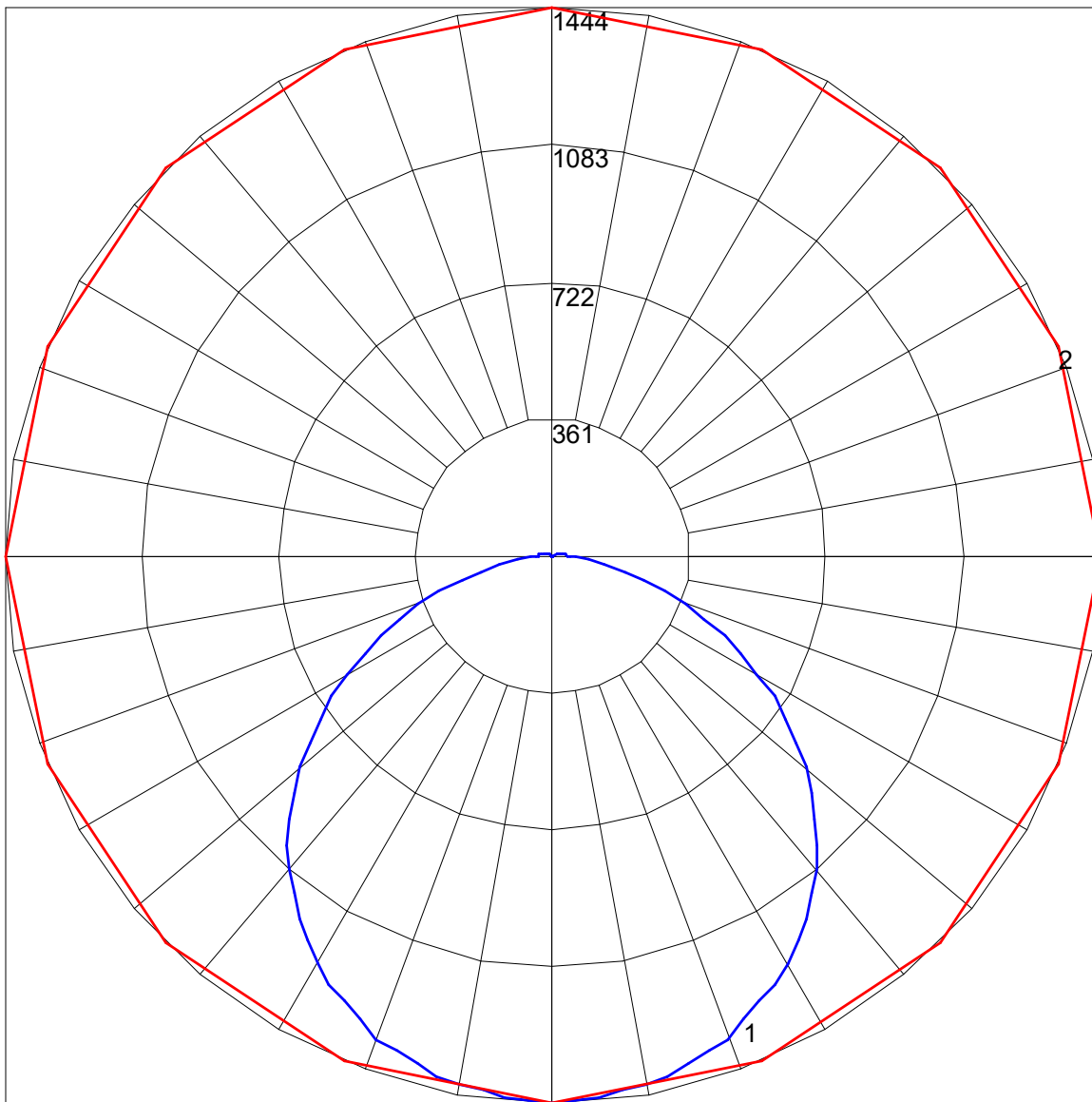
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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 = 1443.835 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.)