



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS100L-4VL-35K.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-35K

[LUMINAIRE] BS100L-4VL-35K

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

[BURNING] Vertical Base Up (4081 Luminaire Lumens)

[REFLECTOR] White Painted Plate

[LENS] Diffuse Convex Polycarbonate

[HOUSING] Molded Polymer

[NOMINAL COLOR] 3500 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	4081
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	148
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	6805	5500	5043
55	6341	4826	4300
65	5629	3924	3350
75	4368	2748	2171
85	2610	1656	1310

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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	1488.594	1488.594	1488.594	1488.594	1488.594	1488.594	1488.594	1488.594	1488.594
2.5	1479.639	1476.653	1475.658	1476.653	1473.668	1476.653	1475.658	1476.653	1479.639
5.0	1479.639	1475.658	1460.732	1459.737	1454.763	1459.737	1460.732	1475.658	1479.639
7.5	1464.713	1456.753	1452.772	1442.822	1447.797	1442.822	1452.772	1456.753	1464.713
10.0	1458.742	1446.802	1433.866	1423.916	1418.941	1423.916	1433.866	1446.802	1458.742
12.5	1452.772	1436.851	1408.990	1398.044	1390.084	1398.044	1408.990	1436.851	1452.772
15.0	1427.896	1409.985	1393.070	1376.153	1375.158	1376.153	1393.070	1409.985	1427.896
17.5	1413.965	1390.084	1366.203	1351.277	1342.322	1351.277	1366.203	1390.084	1413.965
20.0	1401.030	1369.188	1335.356	1321.426	1312.470	1321.426	1335.356	1369.188	1401.030
22.5	1365.208	1334.361	1313.465	1290.579	1286.599	1290.579	1313.465	1334.361	1365.208
25.0	1337.346	1306.500	1277.643	1258.738	1248.787	1258.738	1277.643	1306.500	1337.346
27.5	1316.451	1279.634	1237.841	1219.931	1209.981	1219.931	1237.841	1279.634	1316.451
30.0	1280.629	1235.851	1207.990	1182.119	1175.153	1182.119	1207.990	1235.851	1280.629
32.5	1243.812	1199.034	1167.193	1142.317	1133.362	1142.317	1167.193	1199.034	1243.812
35.0	1206.000	1161.223	1121.421	1097.540	1084.604	1097.540	1121.421	1161.223	1206.000
37.5	1159.233	1109.480	1082.614	1053.757	1044.802	1053.757	1082.614	1109.480	1159.233
40.0	1117.440	1065.698	1033.856	1007.985	994.054	1007.985	1033.856	1065.698	1117.440
42.5	1067.688	1019.926	984.104	954.252	940.322	954.252	984.104	1019.926	1067.688
45.0	1009.975	963.208	938.332	905.495	893.554	905.495	938.332	963.208	1009.975
47.5	955.247	910.470	882.609	850.767	836.837	850.767	882.609	910.470	955.247
50.0	897.535	857.732	824.896	795.044	779.124	795.044	824.896	857.732	897.535
52.5	833.851	795.044	773.153	740.317	726.386	740.317	773.153	795.044	833.851
55.0	773.153	736.336	712.455	681.609	667.678	681.609	712.455	736.336	773.153
57.5	715.441	677.629	649.767	620.910	605.985	620.910	649.767	677.629	715.441
60.0	644.792	611.955	594.045	562.203	550.262	562.203	594.045	611.955	644.792
62.5	578.124	554.243	531.357	503.495	489.564	503.495	531.357	554.243	578.124
65.0	516.431	492.550	471.654	444.787	430.856	444.787	471.654	492.550	516.431
67.5	447.773	428.866	412.945	387.075	374.139	387.075	412.945	428.866	447.773
70.0	387.075	369.163	354.237	328.366	315.430	328.366	354.237	369.163	387.075
72.5	322.396	312.446	294.535	273.639	262.693	273.639	294.535	312.446	322.396
75.0	256.723	253.737	244.782	222.891	212.941	222.891	244.782	253.737	256.723
77.5	199.010	202.991	194.034	178.114	169.158	178.114	194.034	202.991	199.010
80.0	145.277	157.218	151.248	140.302	133.336	140.302	151.248	157.218	145.277
82.5	98.510	119.406	116.421	111.446	108.460	111.446	116.421	119.406	98.510
85.0	62.688	90.550	91.545	87.564	84.579	87.564	91.545	90.550	62.688
87.5	45.274	70.649	71.644	71.809	69.653	71.809	71.644	70.649	45.274
90.0	37.812	54.728	55.722	57.713	56.717	57.713	55.722	54.728	37.812
92.5	34.827	42.788	45.772	47.762	46.767	47.762	45.772	42.788	34.827
95.0	31.841	34.827	35.822	38.807	39.802	38.807	35.822	34.827	31.841
97.5	26.867	28.857	29.852	33.831	34.827	33.831	29.852	28.857	26.867
100.0	24.876	23.881	24.876	27.862	29.852	27.862	24.876	23.881	24.876
102.5	19.901	19.901	22.886	25.871	25.871	25.871	22.886	19.901	19.901
105.0	16.916	15.921	17.911	21.891	22.886	21.891	17.911	15.921	16.916
107.5	13.931	13.931	14.926	18.905	19.901	18.905	14.926	13.931	13.931
110.0	11.941	11.941	13.931	16.916	17.911	16.916	13.931	11.941	11.941
112.5	9.950	8.955	10.945	12.936	14.926	12.936	10.945	8.955	9.950
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	532.69	N.A.	13.10
0-30	1124.51	N.A.	27.60
0-40	1832.21	N.A.	44.90
0-60	3192.63	N.A.	78.20
0-80	3914.27	N.A.	95.90
0-90	4014.21	N.A.	98.40
10-90	3875.21	N.A.	95.00
20-40	1299.52	N.A.	31.80
20-50	2023.36	N.A.	49.60
40-70	1826.04	N.A.	44.70
60-80	721.64	N.A.	17.70
70-80	256.02	N.A.	6.30
80-90	99.94	N.A.	2.40
90-110	62.05	N.A.	1.50
90-120	66.76	N.A.	1.60
90-130	66.76	N.A.	1.60
90-150	66.76	N.A.	1.60
90-180	66.76	N.A.	1.60
110-180	4.71	N.A.	0.10
0-180	4080.97	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	139.00
10-20	393.69
20-30	591.81
30-40	707.71
40-50	723.84
50-60	636.59
60-70	465.62
70-80	256.02
80-90	99.94
90-100	41.32
100-110	20.72
110-120	4.71
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

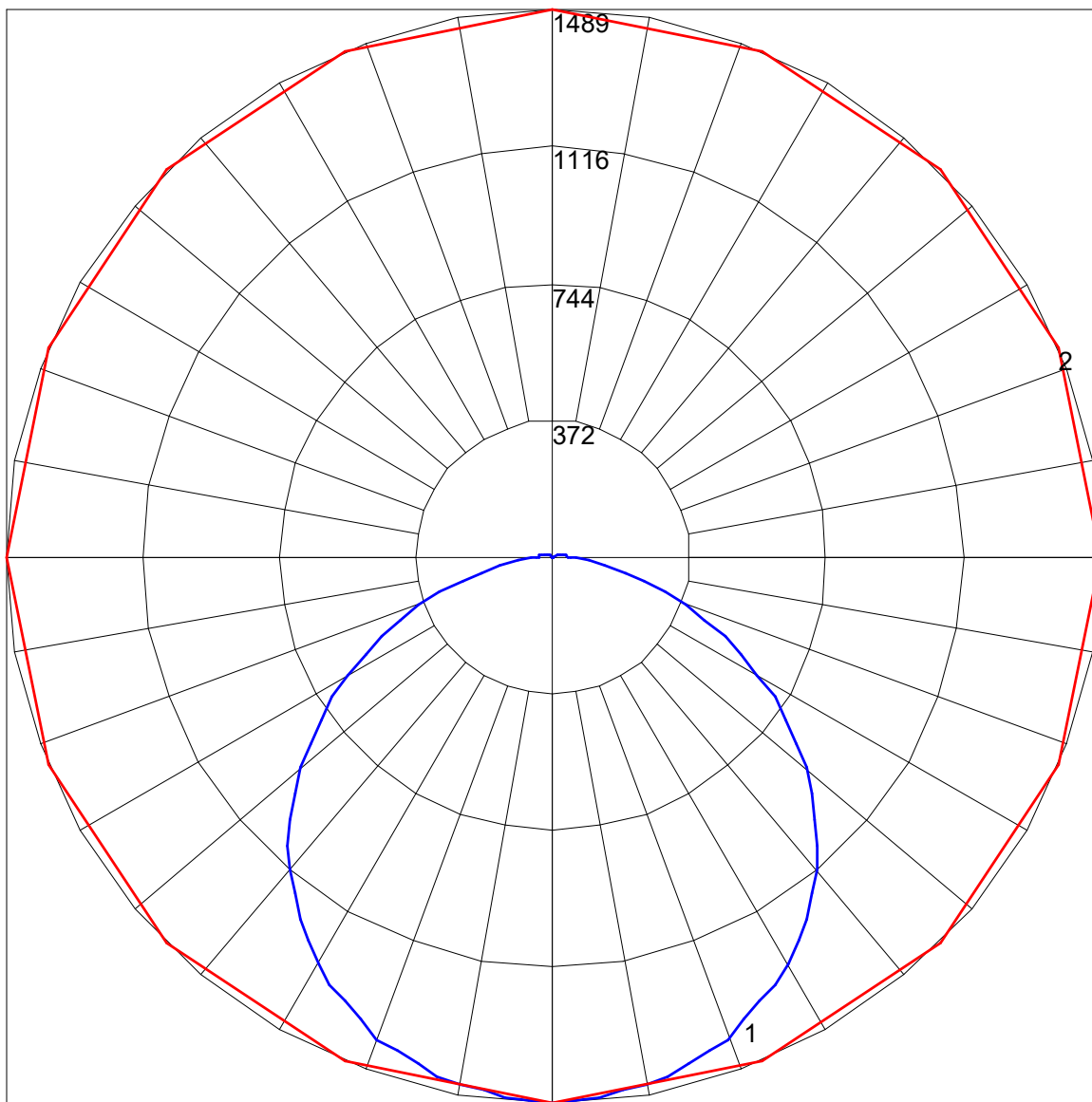
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	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 = 1488.594 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.)