



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS100-L-4-PS-3C-M-90-30W-35K.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] S2311165-R1

[TESTLAB] Spectra Lux

[TESTDATE] 16 November 2023

[ISSUEDATE] 21 November 2023

[MANUFAC] BeLuce Canada Inc.

[LUMCAT] BS100-L-4-PS-3C-M-90-30W-35K

[LUMINAIRE] BS100-L-4-PS-3C-M-90-30W-35K

[LAMP] 4177 LUMENS

[REFLECTOR] White Painted Metal Plate

[LENS] Frosted Polycarbonate Diffuser

[HOUSING] Polymeric Molded Material

[DRIVE CURRENT] 96,186 mA / LED

[SEARCH\_SOURCETYPE] LED

[SEARCH\_APPLICATION] Vapor Proof

[SEARCH\_CERTIFICATION] CSA

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4177
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	139
Total Luminaire Watts	30
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.30
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.40
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.19 ft
Luminous Width (90-270)	0.54 ft
Luminous Height	0.38 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	5766	4034	3618
55	5309	3394	2997
65	4577	2641	2298
75	3551	1763	1517
85	1805	932	791

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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>
0.0	1368.546	1368.546	1368.546	1368.546	1368.546
2.5	1367.138	1365.729	1364.321	1363.382	1363.382
5.0	1362.443	1359.626	1358.218	1358.687	1357.748
7.5	1355.870	1353.522	1349.767	1347.889	1348.358
10.0	1346.481	1343.663	1339.438	1337.091	1335.682
12.5	1335.682	1330.987	1325.823	1321.598	1320.659
15.0	1321.128	1316.903	1309.391	1304.696	1303.757
17.5	1306.105	1300.941	1290.142	1286.856	1284.508
20.0	1287.795	1281.222	1270.424	1266.198	1263.851
22.5	1266.668	1259.157	1246.480	1244.133	1240.846
25.0	1242.255	1235.213	1222.067	1218.781	1216.433
27.5	1212.677	1207.513	1194.837	1190.612	1186.856
30.0	1182.630	1174.180	1165.729	1160.565	1156.809
32.5	1149.766	1139.907	1133.804	1127.701	1122.067
35.0	1113.616	1104.226	1099.062	1091.550	1085.447
37.5	1074.179	1064.790	1061.973	1053.522	1045.541
40.0	1032.865	1023.475	1022.536	1011.269	1003.757
42.5	986.855	979.813	979.813	967.606	958.687
45.0	937.090	934.743	934.274	921.128	913.147
47.5	887.794	886.386	885.916	873.710	866.668
50.0	835.682	838.968	837.090	826.292	819.250
52.5	780.752	786.386	786.386	776.996	770.893
55.0	724.414	732.395	734.743	727.231	721.128
57.5	665.728	675.588	681.691	674.649	669.484
60.0	606.573	618.780	627.231	622.066	617.372
62.5	546.949	561.973	572.301	568.076	563.851
65.0	486.386	504.226	514.555	513.146	508.921
67.5	427.700	446.949	458.216	457.747	453.522
70.0	370.423	389.672	401.409	403.756	399.531
72.5	314.085	333.803	345.540	349.766	347.418
75.0	258.686	278.404	294.836	299.061	296.714
77.5	204.695	225.352	242.724	251.643	249.296
80.0	153.522	176.995	198.592	207.043	205.165
82.5	105.634	134.273	158.686	167.136	164.789
85.0	67.136	100.939	125.352	132.395	129.577
87.5	44.601	76.056	98.592	103.756	100.470
90.0	38.497	59.155	77.465	81.221	78.404
92.5	35.211	47.887	62.442	65.258	62.911
95.0	31.456	39.906	51.174	53.991	52.113
97.5	28.169	33.333	44.131	46.009	45.071
100.0	24.883	28.169	38.497	41.315	40.375
102.5	21.596	23.944	33.803	37.559	37.559
105.0	18.310	19.718	29.578	34.742	35.211
107.5	15.493	16.432	25.352	32.394	32.864
110.0	13.146	13.615	22.066	29.578	30.986
112.5	11.268	11.268	18.779	26.291	28.169
115.0	9.390	9.390	15.962	23.474	25.822
117.5	7.981	7.981	13.146	20.188	23.005
120.0	7.043	7.043	11.268	17.840	19.718
122.5	6.103	6.103	9.390	15.024	17.371
125.0	5.634	5.634	7.981	13.146	15.024
127.5	5.165	5.165	7.043	11.268	13.146
130.0	4.695	4.695	6.103	9.859	11.268
132.5	4.225	4.695	5.165	8.451	9.390

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**CANDELA TABULATION - (Cont.)**

<b>135.0</b>	4.225	4.695	5.165	7.043	8.451
<b>137.5</b>	4.225	4.695	5.165	6.103	7.043
<b>140.0</b>	4.225	4.695	4.695	5.634	6.103
<b>142.5</b>	4.225	4.695	4.695	5.165	5.634
<b>145.0</b>	4.225	4.695	4.695	5.165	5.165
<b>147.5</b>	4.225	4.695	4.695	4.695	5.165
<b>150.0</b>	4.225	4.695	4.695	4.695	4.695
<b>152.5</b>	4.225	4.225	4.695	4.695	4.695
<b>155.0</b>	4.225	4.225	4.225	4.695	4.695
<b>157.5</b>	4.225	4.225	4.225	4.225	4.695
<b>160.0</b>	4.225	4.225	4.225	4.225	4.695
<b>162.5</b>	3.756	4.225	4.225	4.225	4.225
<b>165.0</b>	3.756	3.756	4.225	4.225	4.225
<b>167.5</b>	3.756	3.756	3.756	4.225	4.225
<b>170.0</b>	3.756	3.756	3.756	4.225	4.225
<b>172.5</b>	3.756	3.756	3.756	3.756	3.756
<b>175.0</b>	3.756	3.756	3.756	3.756	3.756
<b>177.5</b>	3.756	3.756	3.756	3.756	3.756
<b>180.0</b>	3.000	3.000	3.000	3.000	3.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	499.36	N.A.	12.00
0-30	1064.46	N.A.	25.50
0-40	1751.49	N.A.	41.90
0-60	3119.14	N.A.	74.70
0-80	3926.68	N.A.	94.00
0-90	4057.61	N.A.	97.10
10-90	3928.47	N.A.	94.10
20-40	1252.13	N.A.	30.00
20-50	1968.51	N.A.	47.10
40-70	1870.02	N.A.	44.80
60-80	807.55	N.A.	19.30
70-80	305.17	N.A.	7.30
80-90	130.93	N.A.	3.10
90-110	82.91	N.A.	2.00
90-120	99.58	N.A.	2.40
90-130	108.09	N.A.	2.60
90-150	115.70	N.A.	2.80
90-180	119.27	N.A.	2.90
110-180	36.36	N.A.	0.90
0-180	4176.88	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	129.14
10-20	370.21
20-30	565.10
30-40	687.03
40-50	716.38
50-60	651.27
60-70	502.38
70-80	305.17
80-90	130.93
90-100	53.23
100-110	29.67
110-120	16.67
120-130	8.51
130-140	4.59
140-150	3.02
150-160	2.05
160-170	1.16
170-180	0.36

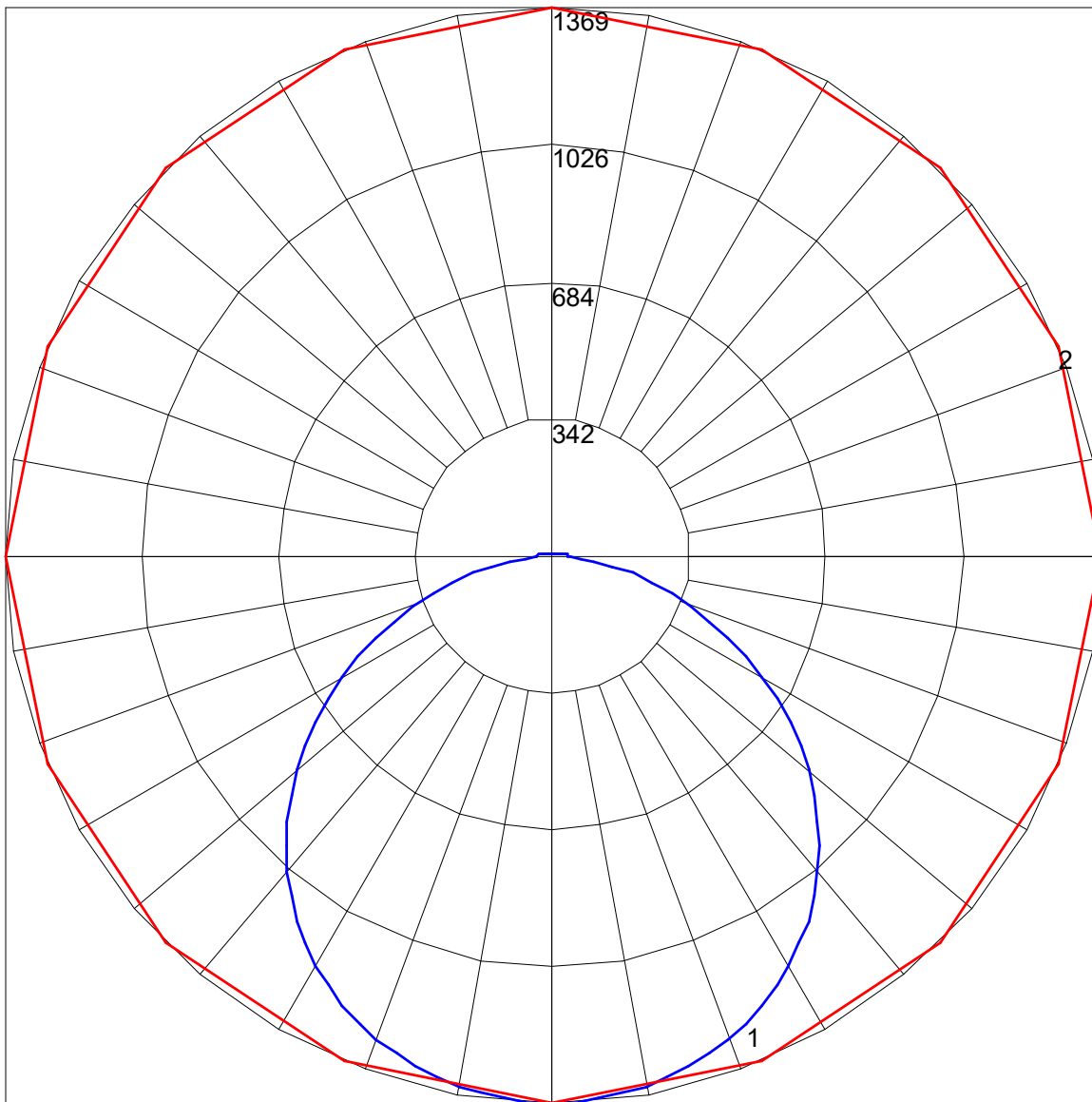
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	118	118	118	118	115	115	115	115	110	110	110	104	104	104	99	99	99	97
1	107	102	98	94	104	100	96	92	95	92	89	91	88	85	87	84	82	80
2	97	89	82	76	95	87	80	75	83	77	73	79	74	71	76	72	69	66
3	89	78	70	63	86	76	68	62	73	66	61	70	64	59	67	62	58	55
4	81	69	60	53	79	67	59	53	64	57	51	62	56	50	59	54	49	47
5	75	61	52	46	72	60	52	45	58	50	44	55	49	44	53	48	43	41
6	69	55	46	40	67	54	46	39	52	44	39	50	43	38	48	42	38	35
7	64	50	41	35	62	49	41	35	47	40	34	46	39	34	44	38	33	31
8	59	46	37	31	58	45	37	31	43	36	31	42	35	30	40	34	30	28
9	55	42	34	28	54	41	33	28	40	33	27	38	32	27	37	31	27	25
10	52	39	31	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23

POLAR GRAPH



Maximum Candela = 1368.546 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.)