



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS100-L-4-PS-3C-M-90-60W-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-90-60W-35K

[LUMINAIRE] BS100-L-4-PS-3C-M-90-60W-35K

[LAMP] 7440 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	7440
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	124
Total Luminaire Watts	60
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	10271	7185	6444
55	9456	6045	5338
65	8153	4704	4093
75	6326	3140	2701
85	3214	1659	1409

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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	2437.631	2437.631	2437.631	2437.631	2437.631
2.5	2435.122	2432.613	2430.105	2428.432	2428.432
5.0	2426.760	2421.742	2419.234	2420.070	2418.397
7.5	2415.052	2410.871	2404.181	2400.836	2401.673
10.0	2398.328	2393.310	2385.784	2381.603	2379.094
12.5	2379.094	2370.732	2361.533	2354.007	2352.335
15.0	2353.171	2345.645	2332.265	2323.903	2322.230
17.5	2326.411	2317.213	2297.979	2292.126	2287.944
20.0	2293.798	2282.091	2262.857	2255.331	2251.150
22.5	2256.167	2242.788	2220.209	2216.028	2210.174
25.0	2212.683	2200.140	2176.725	2170.871	2166.690
27.5	2160.000	2150.802	2128.223	2120.697	2114.007
30.0	2106.481	2091.429	2076.377	2067.178	2060.488
32.5	2047.944	2030.383	2019.512	2008.641	1998.606
35.0	1983.554	1966.829	1957.631	1944.251	1933.380
37.5	1913.310	1896.586	1891.568	1876.516	1862.300
40.0	1839.721	1822.997	1821.324	1801.255	1787.875
42.5	1757.770	1745.227	1745.227	1723.484	1707.596
45.0	1669.129	1664.948	1664.112	1640.697	1626.481
47.5	1581.324	1578.815	1577.979	1556.237	1543.694
50.0	1488.502	1494.356	1491.011	1471.777	1459.234
52.5	1390.662	1400.697	1400.697	1383.972	1373.101
55.0	1290.314	1304.530	1308.711	1295.331	1284.460
57.5	1185.784	1203.345	1214.216	1201.673	1192.474
60.0	1080.418	1102.160	1117.213	1108.014	1099.652
62.5	974.216	1000.976	1019.373	1011.847	1004.321
65.0	866.342	898.119	916.516	914.007	906.481
67.5	761.812	796.098	816.167	815.331	807.805
70.0	659.791	694.077	714.983	719.164	711.638
72.5	559.443	594.565	615.470	622.997	618.815
75.0	460.767	495.889	525.157	532.683	528.502
77.5	364.599	401.394	432.335	448.223	444.042
80.0	273.450	315.261	353.728	368.781	365.436
82.5	188.153	239.164	282.648	297.700	293.519
85.0	119.582	179.791	223.275	235.819	230.801
87.5	79.443	135.470	175.610	184.808	178.955
90.0	68.571	105.366	137.979	144.669	139.652
92.5	62.718	85.296	111.220	116.237	112.056
95.0	56.028	71.080	91.150	96.167	92.822
97.5	50.174	59.373	78.606	81.951	80.279
100.0	44.321	50.174	68.571	73.589	71.916
102.5	38.467	42.648	60.209	66.899	66.899
105.0	32.613	35.122	52.683	61.882	62.718
107.5	27.596	29.268	45.157	57.700	58.537
110.0	23.415	24.251	39.303	52.683	55.192
112.5	20.070	20.070	33.449	46.829	50.174
115.0	16.725	16.725	28.432	41.812	45.993
117.5	14.216	14.216	23.415	35.958	40.976
120.0	12.544	12.544	20.070	31.777	35.122
122.5	10.871	10.871	16.725	26.760	30.941
125.0	10.035	10.035	14.216	23.415	26.760
127.5	9.199	9.199	12.544	20.070	23.415
130.0	8.362	8.362	10.871	17.561	20.070
132.5	7.526	8.362	9.199	15.052	16.725

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**CANDELA TABULATION - (Cont.)**

<b>135.0</b>	7.526	8.362	9.199	12.544	15.052
<b>137.5</b>	7.526	8.362	9.199	10.871	12.544
<b>140.0</b>	7.526	8.362	8.362	10.035	10.871
<b>142.5</b>	7.526	8.362	8.362	9.199	10.035
<b>145.0</b>	7.526	8.362	8.362	9.199	9.199
<b>147.5</b>	7.526	8.362	8.362	8.362	9.199
<b>150.0</b>	7.526	8.362	8.362	8.362	8.362
<b>152.5</b>	7.526	7.526	8.362	8.362	8.362
<b>155.0</b>	7.526	7.526	7.526	8.362	8.362
<b>157.5</b>	7.526	7.526	7.526	7.526	8.362
<b>160.0</b>	7.526	7.526	7.526	7.526	8.362
<b>162.5</b>	6.690	7.526	7.526	7.526	7.526
<b>165.0</b>	6.690	6.690	7.526	7.526	7.526
<b>167.5</b>	6.690	6.690	6.690	7.526	7.526
<b>170.0</b>	6.690	6.690	6.690	7.526	7.526
<b>172.5</b>	6.690	6.690	6.690	6.690	6.690
<b>175.0</b>	6.690	6.690	6.690	6.690	6.690
<b>177.5</b>	6.690	6.690	6.690	6.690	6.690
<b>180.0</b>	6.000	6.000	6.000	6.000	6.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	889.44	N.A.	12.00
0-30	1896.00	N.A.	25.50
0-40	3119.72	N.A.	41.90
0-60	5555.75	N.A.	74.70
0-80	6994.14	N.A.	94.00
0-90	7227.35	N.A.	97.10
10-90	6997.32	N.A.	94.10
20-40	2230.28	N.A.	30.00
20-50	3506.28	N.A.	47.10
40-70	3330.85	N.A.	44.80
60-80	1438.39	N.A.	19.30
70-80	543.57	N.A.	7.30
80-90	233.21	N.A.	3.10
90-110	147.67	N.A.	2.00
90-120	177.36	N.A.	2.40
90-130	192.53	N.A.	2.60
90-150	206.09	N.A.	2.80
90-180	212.44	N.A.	2.90
110-180	64.77	N.A.	0.90
0-180	7439.79	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	230.03
10-20	659.42
20-30	1006.55
30-40	1223.73
40-50	1276.00
50-60	1160.02
60-70	894.82
70-80	543.57
80-90	233.21
90-100	94.82
100-110	52.85
110-120	29.69
120-130	15.16
130-140	8.17
140-150	5.38
150-160	3.65
160-170	2.06
170-180	0.64

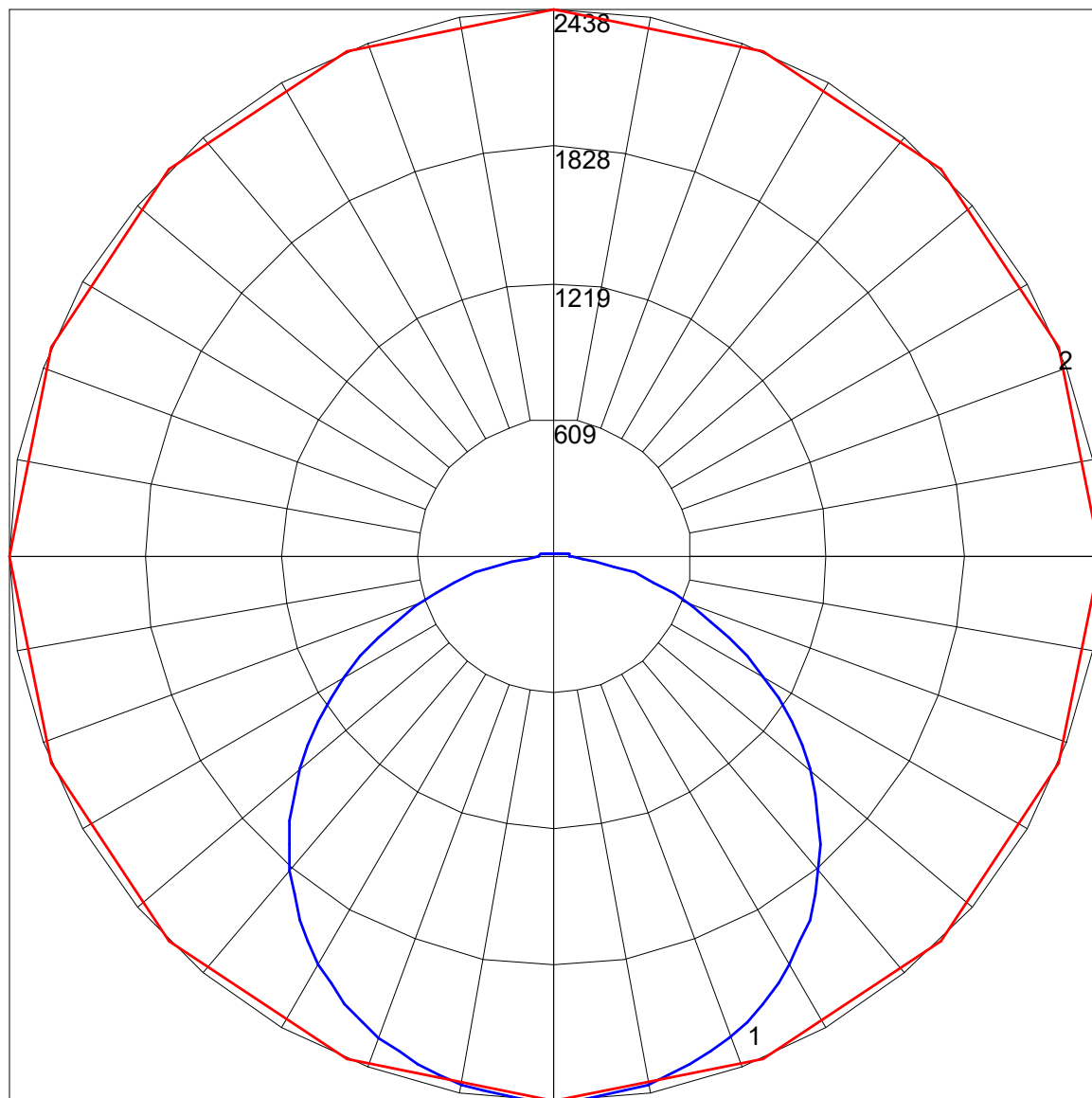
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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 = 2437.631 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.)