



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS100-L-4-PS-3C-M-90-60W-50K.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-50K

[LUMINAIRE] BS100-L-4-PS-3C-M-90-60W-50K

[LAMP] 7672 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	7672
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	128
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	10591	7409	6645
55	9750	6233	5505
65	8407	4851	4220
75	6523	3238	2786
85	3315	1711	1453

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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	2513.644	2513.644	2513.644	2513.644	2513.644
2.5	2511.056	2508.469	2505.883	2504.158	2504.158
5.0	2502.434	2497.259	2494.673	2495.535	2493.810
7.5	2490.361	2486.049	2479.151	2475.701	2476.564
10.0	2473.115	2467.941	2460.180	2455.869	2453.281
12.5	2453.281	2444.659	2435.173	2427.412	2425.688
15.0	2426.550	2418.789	2404.992	2396.369	2394.644
17.5	2398.955	2389.471	2369.637	2363.601	2359.289
20.0	2365.326	2353.253	2333.420	2325.659	2321.348
22.5	2326.521	2312.725	2289.442	2285.130	2279.094
25.0	2281.681	2268.747	2244.602	2238.565	2234.254
27.5	2227.355	2217.870	2194.587	2186.827	2179.928
30.0	2172.167	2156.646	2141.125	2131.639	2124.740
32.5	2111.805	2093.696	2082.486	2071.276	2060.929
35.0	2045.407	2028.161	2018.676	2004.879	1993.669
37.5	1972.973	1955.727	1950.553	1935.031	1920.372
40.0	1897.089	1879.844	1878.118	1857.424	1843.626
42.5	1812.583	1799.648	1799.648	1777.227	1760.844
45.0	1721.177	1716.866	1716.004	1691.859	1677.200
47.5	1630.634	1628.047	1627.185	1604.765	1591.831
50.0	1534.918	1540.955	1537.505	1517.671	1504.737
52.5	1434.027	1444.375	1444.375	1427.128	1415.918
55.0	1330.550	1345.209	1349.521	1335.723	1324.513
57.5	1222.760	1240.869	1252.079	1239.145	1229.659
60.0	1114.109	1136.529	1152.051	1142.565	1133.942
62.5	1004.595	1032.189	1051.160	1043.399	1035.639
65.0	893.357	926.125	945.096	942.508	934.748
67.5	785.568	820.923	841.618	840.755	832.995
70.0	680.365	715.720	737.278	741.590	733.829
72.5	576.888	613.105	634.662	642.424	638.112
75.0	475.135	511.352	541.533	549.294	544.982
77.5	375.968	413.911	445.817	462.200	457.889
80.0	281.977	325.092	364.758	380.281	376.831
82.5	194.020	246.622	291.462	306.983	302.672
85.0	123.311	185.397	230.237	243.173	237.998
87.5	81.920	139.694	181.086	190.571	184.535
90.0	70.709	108.652	142.282	149.180	144.007
92.5	64.674	87.956	114.688	119.862	115.550
95.0	57.775	73.296	93.992	99.166	95.716
97.5	51.739	61.224	81.057	84.506	82.782
100.0	45.703	51.739	70.709	75.884	74.159
102.5	39.667	43.978	62.086	68.985	68.985
105.0	33.630	36.217	54.326	63.812	64.674
107.5	28.457	30.181	46.565	59.499	60.362
110.0	24.145	25.007	40.529	54.326	56.913
112.5	20.696	20.696	34.492	48.289	51.739
115.0	17.247	17.247	29.319	43.116	47.427
117.5	14.659	14.659	24.145	37.079	42.254
120.0	12.935	12.935	20.696	32.768	36.217
122.5	11.210	11.210	17.247	27.594	31.906
125.0	10.348	10.348	14.659	24.145	27.594
127.5	9.486	9.486	12.935	20.696	24.145
130.0	8.623	8.623	11.210	18.109	20.696
132.5	7.761	8.623	9.486	15.521	17.247

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**CANDELA TABULATION - (Cont.)**

<b>135.0</b>	7.761	8.623	9.486	12.935	15.521
<b>137.5</b>	7.761	8.623	9.486	11.210	12.935
<b>140.0</b>	7.761	8.623	8.623	10.348	11.210
<b>142.5</b>	7.761	8.623	8.623	9.486	10.348
<b>145.0</b>	7.761	8.623	8.623	9.486	9.486
<b>147.5</b>	7.761	8.623	8.623	8.623	9.486
<b>150.0</b>	7.761	8.623	8.623	8.623	8.623
<b>152.5</b>	7.761	7.761	8.623	8.623	8.623
<b>155.0</b>	7.761	7.761	7.761	8.623	8.623
<b>157.5</b>	7.761	7.761	7.761	7.761	8.623
<b>160.0</b>	7.761	7.761	7.761	7.761	8.623
<b>162.5</b>	6.899	7.761	7.761	7.761	7.761
<b>165.0</b>	6.899	6.899	7.761	7.761	7.761
<b>167.5</b>	6.899	6.899	6.899	7.761	7.761
<b>170.0</b>	6.899	6.899	6.899	7.761	7.761
<b>172.5</b>	6.899	6.899	6.899	6.899	6.899
<b>175.0</b>	6.899	6.899	6.899	6.899	6.899
<b>177.5</b>	6.899	6.899	6.899	6.899	6.899
<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	917.18	N.A.	12.00
0-30	1955.12	N.A.	25.50
0-40	3217.01	N.A.	41.90
0-60	5729.00	N.A.	74.70
0-80	7212.24	N.A.	94.00
0-90	7452.72	N.A.	97.10
10-90	7215.52	N.A.	94.10
20-40	2299.83	N.A.	30.00
20-50	3615.62	N.A.	47.10
40-70	3434.71	N.A.	44.80
60-80	1483.24	N.A.	19.30
70-80	560.52	N.A.	7.30
80-90	240.48	N.A.	3.10
90-110	152.28	N.A.	2.00
90-120	182.90	N.A.	2.40
90-130	198.53	N.A.	2.60
90-150	212.51	N.A.	2.80
90-180	219.07	N.A.	2.90
110-180	66.79	N.A.	0.90
0-180	7671.79	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	237.20
10-20	679.98
20-30	1037.94
30-40	1261.89
40-50	1315.79
50-60	1196.2
60-70	922.73
70-80	560.52
80-90	240.48
90-100	97.78
100-110	54.50
110-120	30.62
120-130	15.64
130-140	8.43
140-150	5.55
150-160	3.76
160-170	2.13
170-180	0.66

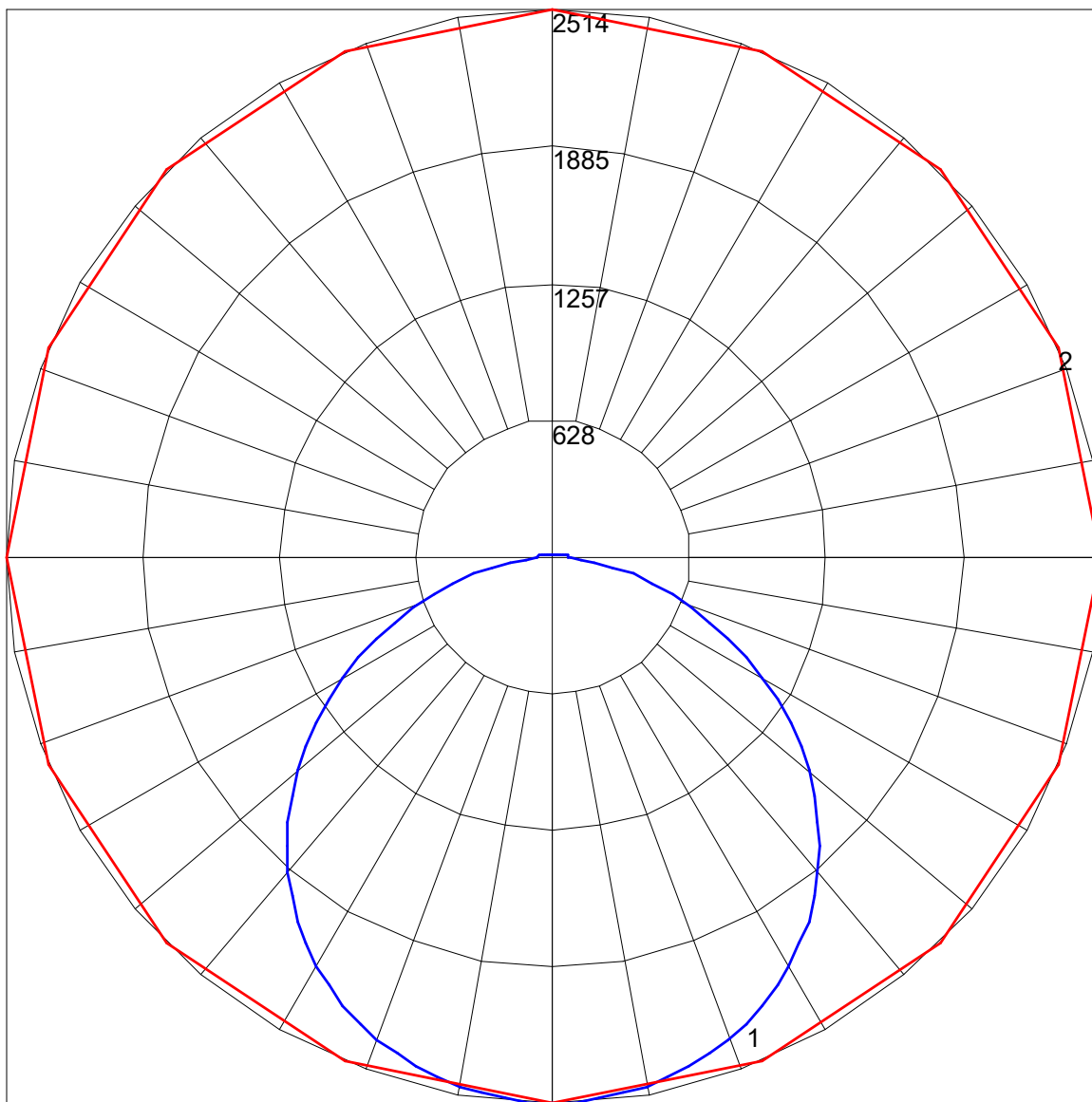
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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 = 2513.644 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.)