



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS100-L-4-PS-3C-M-90-60W-40K.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-40K

[LUMINAIRE] BS100-L-4-PS-3C-M-90-60W-40K

[LAMP] 7957 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	7957
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	133
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	10985	7684	6892
55	10113	6465	5709
65	8719	5031	4377
75	6765	3359	2889
85	3438	1775	1506

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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	2607.020	2607.020	2607.020	2607.020	2607.020
2.5	2604.336	2601.653	2598.971	2597.181	2597.181
5.0	2595.393	2590.026	2587.344	2588.238	2586.449
7.5	2582.872	2578.400	2571.245	2567.668	2568.563
10.0	2564.985	2559.619	2551.570	2547.098	2544.415
12.5	2544.415	2535.472	2525.634	2517.585	2515.796
15.0	2516.691	2508.642	2494.332	2485.389	2483.599
17.5	2488.071	2478.234	2457.663	2451.404	2446.931
20.0	2453.192	2440.671	2420.101	2412.052	2407.580
22.5	2412.946	2398.637	2374.489	2370.018	2363.757
25.0	2366.440	2353.026	2327.983	2321.723	2317.251
27.5	2310.096	2300.259	2276.111	2268.062	2260.907
30.0	2252.858	2236.760	2220.662	2210.824	2203.669
32.5	2190.254	2171.472	2159.846	2148.219	2137.487
35.0	2121.389	2103.502	2093.665	2079.355	2067.729
37.5	2046.264	2028.378	2023.011	2006.913	1991.709
40.0	1967.561	1949.675	1947.886	1926.422	1912.113
42.5	1879.916	1866.501	1866.501	1843.247	1826.255
45.0	1785.115	1780.644	1779.749	1754.707	1739.504
47.5	1691.209	1688.525	1687.631	1664.378	1650.964
50.0	1591.937	1598.197	1594.620	1574.049	1560.635
52.5	1487.298	1498.030	1498.030	1480.143	1468.516
55.0	1379.977	1395.180	1399.652	1385.342	1373.716
57.5	1268.183	1286.964	1298.591	1285.176	1275.338
60.0	1155.495	1178.748	1194.847	1185.009	1176.066
62.5	1041.913	1070.533	1090.208	1082.159	1074.110
65.0	926.543	960.528	980.204	977.520	969.471
67.5	814.750	851.418	872.882	871.988	863.939
70.0	705.639	742.308	764.666	769.138	761.089
72.5	598.318	635.881	658.238	666.288	661.816
75.0	492.785	530.348	561.650	569.699	565.227
77.5	389.935	429.286	462.378	479.370	474.898
80.0	292.452	337.168	378.308	394.407	390.830
82.5	201.228	255.783	302.289	318.387	313.915
85.0	127.892	192.284	238.790	252.206	246.839
87.5	84.963	144.884	187.813	197.650	191.390
90.0	73.336	112.688	147.567	154.722	149.356
92.5	67.076	91.223	118.949	124.314	119.843
95.0	59.921	76.019	97.484	102.850	99.272
97.5	53.661	63.499	84.068	87.646	85.858
100.0	47.401	53.661	73.336	78.703	76.913
102.5	41.140	45.612	64.393	71.548	71.548
105.0	34.879	37.563	56.344	66.182	67.076
107.5	29.514	31.302	48.295	61.710	62.605
110.0	25.042	25.936	42.034	56.344	59.027
112.5	21.465	21.465	35.773	50.083	53.661
115.0	17.887	17.887	30.408	44.717	49.189
117.5	15.204	15.204	25.042	38.457	43.823
120.0	13.416	13.416	21.465	33.985	37.563
122.5	11.626	11.626	17.887	28.620	33.091
125.0	10.732	10.732	15.204	25.042	28.620
127.5	9.838	9.838	13.416	21.465	25.042
130.0	8.943	8.943	11.626	18.781	21.465
132.5	8.049	8.943	9.838	16.098	17.887

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**CANDELA TABULATION - (Cont.)**

<b>135.0</b>	8.049	8.943	9.838	13.416	16.098
<b>137.5</b>	8.049	8.943	9.838	11.626	13.416
<b>140.0</b>	8.049	8.943	8.943	10.732	11.626
<b>142.5</b>	8.049	8.943	8.943	9.838	10.732
<b>145.0</b>	8.049	8.943	8.943	9.838	9.838
<b>147.5</b>	8.049	8.943	8.943	8.943	9.838
<b>150.0</b>	8.049	8.943	8.943	8.943	8.943
<b>152.5</b>	8.049	8.049	8.943	8.943	8.943
<b>155.0</b>	8.049	8.049	8.049	8.943	8.943
<b>157.5</b>	8.049	8.049	8.049	8.049	8.943
<b>160.0</b>	8.049	8.049	8.049	8.049	8.943
<b>162.5</b>	7.155	8.049	8.049	8.049	8.049
<b>165.0</b>	7.155	7.155	8.049	8.049	8.049
<b>167.5</b>	7.155	7.155	7.155	8.049	8.049
<b>170.0</b>	7.155	7.155	7.155	8.049	8.049
<b>172.5</b>	7.155	7.155	7.155	7.155	7.155
<b>175.0</b>	7.155	7.155	7.155	7.155	7.155
<b>177.5</b>	7.155	7.155	7.155	7.155	7.155
<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	951.25	N.A.	12.00
0-30	2027.75	N.A.	25.50
0-40	3336.51	N.A.	41.90
0-60	5941.82	N.A.	74.70
0-80	7480.15	N.A.	94.00
0-90	7729.57	N.A.	97.10
10-90	7483.56	N.A.	94.10
20-40	2385.26	N.A.	30.00
20-50	3749.93	N.A.	47.10
40-70	3562.31	N.A.	44.80
60-80	1538.34	N.A.	19.30
70-80	581.34	N.A.	7.30
80-90	249.42	N.A.	3.10
90-110	157.94	N.A.	2.00
90-120	189.69	N.A.	2.40
90-130	205.91	N.A.	2.60
90-150	220.41	N.A.	2.80
90-180	227.20	N.A.	2.90
110-180	69.27	N.A.	0.90
0-180	7956.77	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	246.01
10-20	705.24
20-30	1076.5
30-40	1308.76
40-50	1364.67
50-60	1240.63
60-70	957.00
70-80	581.34
80-90	249.42
90-100	101.41
100-110	56.53
110-120	31.75
120-130	16.22
130-140	8.74
140-150	5.76
150-160	3.90
160-170	2.21
170-180	0.69

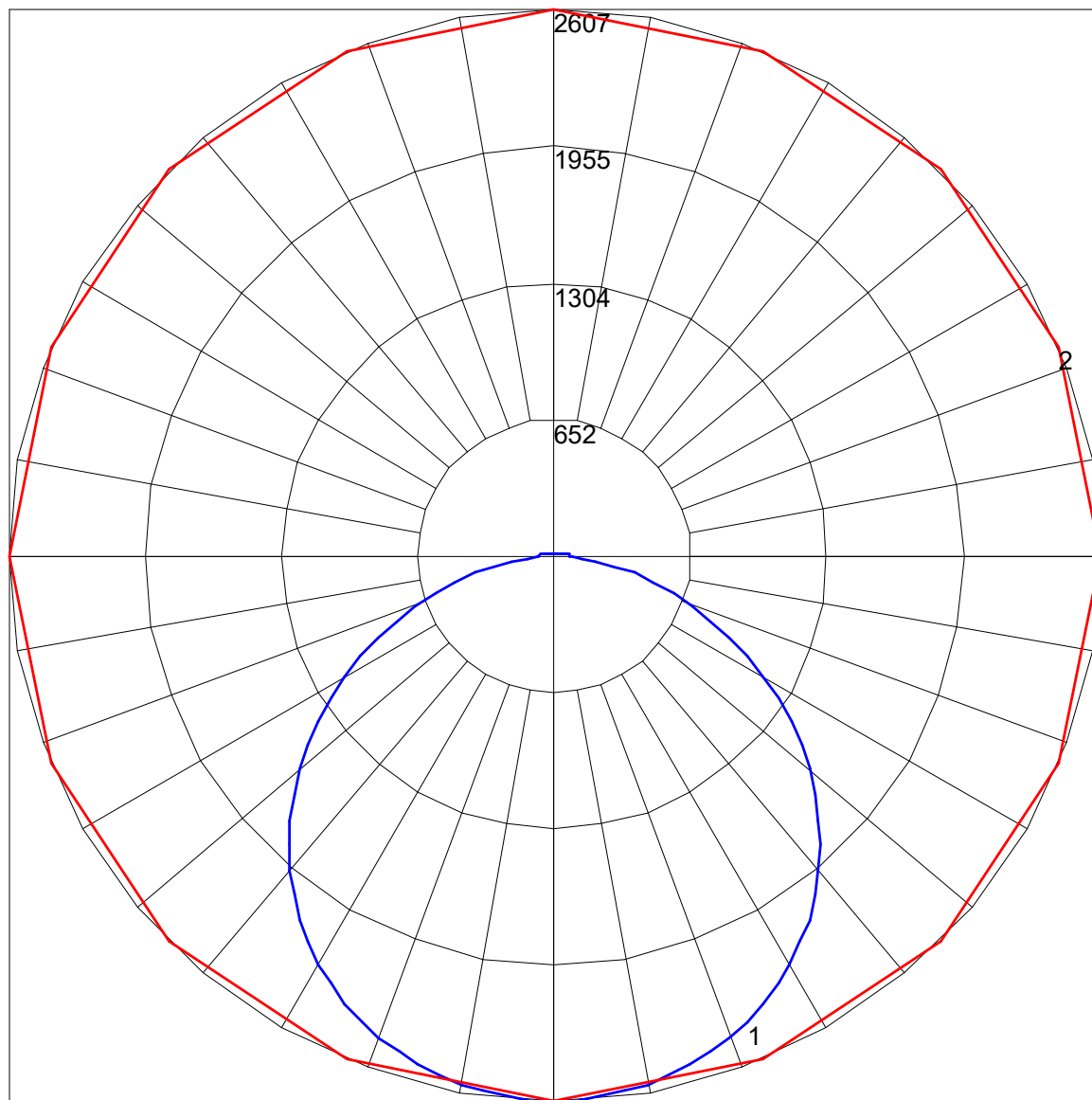
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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 = 2607.02 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.)