



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS100-L-4-PS-3C-M-90-45W-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-90-45W-40K

[LUMINAIRE] BS100-L-4-PS-3C-M-90-45W-40K

[LAMP] 6684 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	6684
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	149
Total Luminaire Watts	45
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	9227	6455	5789
55	8495	5430	4796
65	7324	4226	3677
75	5683	2821	2427
85	2888	1491	1265

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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	2189.897	2189.897	2189.897	2189.897	2189.897
2.5	2187.642	2185.388	2183.136	2181.632	2181.632
5.0	2180.130	2175.622	2173.369	2174.120	2172.617
7.5	2169.612	2165.856	2159.846	2156.841	2157.593
10.0	2154.587	2150.080	2143.319	2139.562	2137.309
12.5	2137.309	2129.796	2121.532	2114.771	2113.269
15.0	2114.020	2107.259	2095.239	2087.727	2086.223
17.5	2089.980	2081.716	2064.437	2059.179	2055.422
20.0	2060.681	2050.164	2032.885	2026.124	2022.367
22.5	2026.875	2014.855	1994.571	1990.815	1985.556
25.0	1987.810	1976.542	1955.506	1950.247	1946.491
27.5	1940.481	1932.217	1911.933	1905.172	1899.162
30.0	1892.401	1878.878	1865.356	1857.092	1851.082
32.5	1839.813	1824.036	1814.271	1804.504	1795.489
35.0	1781.967	1766.942	1758.679	1746.658	1736.892
37.5	1718.862	1703.837	1699.329	1685.807	1673.036
40.0	1652.751	1637.727	1636.224	1618.194	1606.175
42.5	1579.129	1567.861	1567.861	1548.327	1534.054
45.0	1499.497	1495.741	1494.989	1473.954	1461.183
47.5	1420.616	1418.361	1417.610	1398.077	1386.810
50.0	1337.227	1342.485	1339.481	1322.201	1310.933
52.5	1249.330	1258.345	1258.345	1243.320	1233.553
55.0	1159.181	1171.951	1175.708	1163.687	1153.921
57.5	1065.274	1081.050	1090.816	1079.548	1071.284
60.0	970.616	990.148	1003.671	995.408	987.895
62.5	875.207	899.248	915.775	909.014	902.252
65.0	778.296	806.843	823.371	821.117	814.356
67.5	684.390	715.191	733.221	732.470	725.709
70.0	592.737	623.539	642.319	646.076	639.315
72.5	502.587	534.140	552.920	559.682	555.925
75.0	413.939	445.492	471.786	478.547	474.791
77.5	327.545	360.600	388.398	402.671	398.914
80.0	245.660	283.221	317.779	331.302	328.297
82.5	169.032	214.858	253.923	267.445	263.689
85.0	107.429	161.519	200.584	211.853	207.345
87.5	71.369	121.703	157.763	166.026	160.768
90.0	61.602	94.658	123.956	129.966	125.459
92.5	56.344	76.627	99.917	104.424	100.668
95.0	50.334	63.856	81.887	86.394	83.388
97.5	45.075	53.339	70.617	73.623	72.121
100.0	39.817	45.075	61.602	66.111	64.607
102.5	34.558	38.314	54.090	60.100	60.100
105.0	29.298	31.553	47.329	55.593	56.344
107.5	24.792	26.294	40.568	51.836	52.588
110.0	21.035	21.786	35.309	47.329	49.583
112.5	18.031	18.031	30.049	42.070	45.075
115.0	15.025	15.025	25.543	37.562	41.319
117.5	12.771	12.771	21.035	32.304	36.811
120.0	11.269	11.269	18.031	28.547	31.553
122.5	9.766	9.766	15.025	24.041	27.796
125.0	9.015	9.015	12.771	21.035	24.041
127.5	8.264	8.264	11.269	18.031	21.035
130.0	7.512	7.512	9.766	15.776	18.031
132.5	6.761	7.512	8.264	13.522	15.025

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**CANDELA TABULATION - (Cont.)**

<b>135.0</b>	6.761	7.512	8.264	11.269	13.522
<b>137.5</b>	6.761	7.512	8.264	9.766	11.269
<b>140.0</b>	6.761	7.512	7.512	9.015	9.766
<b>142.5</b>	6.761	7.512	7.512	8.264	9.015
<b>145.0</b>	6.761	7.512	7.512	8.264	8.264
<b>147.5</b>	6.761	7.512	7.512	7.512	8.264
<b>150.0</b>	6.761	7.512	7.512	7.512	7.512
<b>152.5</b>	6.761	6.761	7.512	7.512	7.512
<b>155.0</b>	6.761	6.761	6.761	7.512	7.512
<b>157.5</b>	6.761	6.761	6.761	6.761	7.512
<b>160.0</b>	6.761	6.761	6.761	6.761	7.512
<b>162.5</b>	6.010	6.761	6.761	6.761	6.761
<b>165.0</b>	6.010	6.010	6.761	6.761	6.761
<b>167.5</b>	6.010	6.010	6.010	6.761	6.761
<b>170.0</b>	6.010	6.010	6.010	6.761	6.761
<b>172.5</b>	6.010	6.010	6.010	6.010	6.010
<b>175.0</b>	6.010	6.010	6.010	6.010	6.010
<b>177.5</b>	6.010	6.010	6.010	6.010	6.010
<b>180.0</b>	5.000	5.000	5.000	5.000	5.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	799.05	N.A.	12.00
0-30	1703.31	N.A.	25.50
0-40	2802.67	N.A.	41.90
0-60	4991.12	N.A.	74.70
0-80	6283.33	N.A.	94.00
0-90	6492.84	N.A.	97.10
10-90	6286.19	N.A.	94.10
20-40	2003.62	N.A.	30.00
20-50	3149.94	N.A.	47.10
40-70	2992.34	N.A.	44.80
60-80	1292.21	N.A.	19.30
70-80	488.32	N.A.	7.30
80-90	209.51	N.A.	3.10
90-110	132.67	N.A.	2.00
90-120	159.34	N.A.	2.40
90-130	172.96	N.A.	2.60
90-150	185.14	N.A.	2.80
90-180	190.85	N.A.	2.90
110-180	58.18	N.A.	0.90
0-180	6683.69	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	206.65
10-20	592.40
20-30	904.26
30-40	1099.36
40-50	1146.32
50-60	1042.13
60-70	803.88
70-80	488.32
80-90	209.51
90-100	85.18
100-110	47.48
110-120	26.67
120-130	13.62
130-140	7.34
140-150	4.84
150-160	3.28
160-170	1.85
170-180	0.58

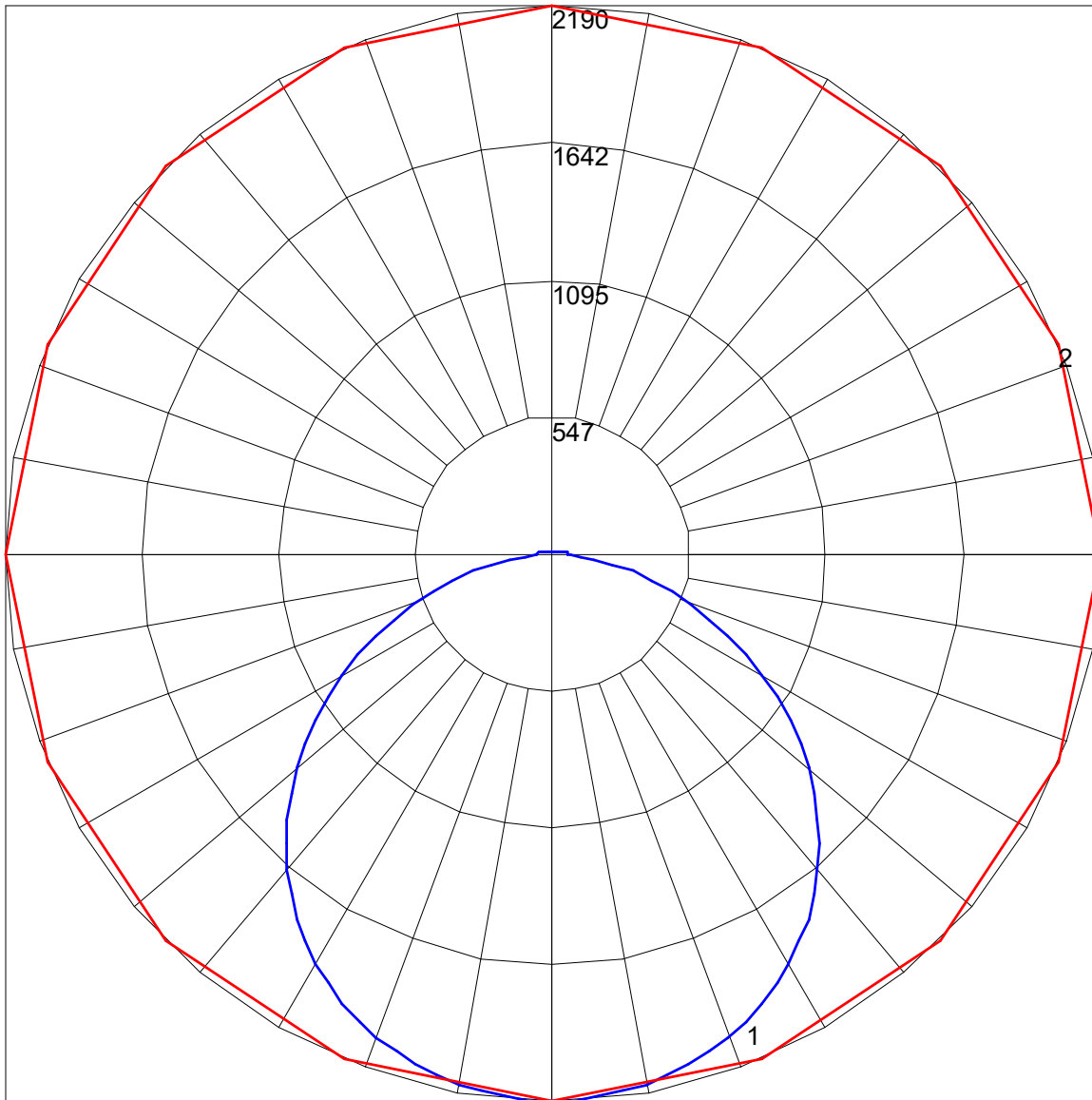
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	69	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 = 2189.897 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.)