



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS100-L-4-PS-3C-M-90-45W-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-90-45W-35K

[LUMINAIRE] BS100-L-4-PS-3C-M-90-45W-35K

[LAMP] 6249 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	6249
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	139
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	8628	6035	5413
55	7943	5077	4484
65	6848	3951	3438
75	5314	2638	2269
85	2700	1394	1183

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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	2047.610	2047.610	2047.610	2047.610	2047.610
2.5	2045.502	2043.395	2041.288	2039.883	2039.883
5.0	2038.478	2034.263	2032.156	2032.859	2031.453
7.5	2028.644	2025.132	2019.512	2016.702	2017.405
10.0	2014.595	2010.380	2004.058	2000.546	1998.439
12.5	1998.439	1991.415	1983.688	1977.366	1975.961
15.0	1976.664	1970.342	1959.103	1952.078	1950.673
17.5	1954.185	1946.459	1930.302	1925.386	1921.873
20.0	1926.790	1916.956	1900.800	1894.478	1890.966
22.5	1895.180	1883.942	1864.976	1861.463	1856.546
25.0	1858.654	1848.118	1828.449	1823.532	1820.020
27.5	1814.400	1806.674	1787.707	1781.385	1775.766
30.0	1769.444	1756.800	1744.157	1736.429	1730.810
32.5	1720.273	1705.522	1696.390	1687.258	1678.829
35.0	1666.185	1652.136	1644.410	1633.171	1624.039
37.5	1607.180	1593.132	1588.917	1576.273	1564.332
40.0	1545.366	1531.317	1529.912	1513.054	1501.815
42.5	1476.527	1465.991	1465.991	1447.727	1434.381
45.0	1402.068	1398.556	1397.854	1378.185	1366.244
47.5	1328.312	1326.205	1325.502	1307.239	1296.703
50.0	1250.342	1255.259	1252.449	1236.293	1225.757
52.5	1168.156	1176.585	1176.585	1162.536	1153.405
55.0	1083.864	1095.805	1099.317	1088.078	1078.946
57.5	996.059	1010.810	1019.941	1009.405	1001.678
60.0	907.551	925.814	938.459	930.732	923.708
62.5	818.341	840.820	856.273	849.951	843.630
65.0	727.727	754.420	769.873	767.766	761.444
67.5	639.922	668.722	685.580	684.878	678.556
70.0	554.224	583.025	600.586	604.098	597.776
72.5	469.932	499.435	516.995	523.317	519.805
75.0	387.044	416.547	441.132	447.454	443.942
77.5	306.263	337.171	363.161	376.507	372.995
80.0	229.698	264.819	297.132	309.776	306.966
82.5	158.049	200.898	237.424	250.068	246.556
85.0	100.449	151.024	187.551	198.088	193.873
87.5	66.732	113.795	147.512	155.239	150.322
90.0	57.600	88.507	115.902	121.522	117.308
92.5	52.683	71.649	93.425	97.639	94.127
95.0	47.064	59.707	76.566	80.780	77.970
97.5	42.146	49.873	66.029	68.839	67.434
100.0	37.230	42.146	57.600	61.815	60.409
102.5	32.312	35.824	50.576	56.195	56.195
105.0	27.395	29.502	44.254	51.981	52.683
107.5	23.181	24.585	37.932	48.468	49.171
110.0	19.669	20.371	33.015	44.254	46.361
112.5	16.859	16.859	28.097	39.336	42.146
115.0	14.049	14.049	23.883	35.122	38.634
117.5	11.941	11.941	19.669	30.205	34.420
120.0	10.537	10.537	16.859	26.693	29.502
122.5	9.132	9.132	14.049	22.478	25.990
125.0	8.429	8.429	11.941	19.669	22.478
127.5	7.727	7.727	10.537	16.859	19.669
130.0	7.024	7.024	9.132	14.751	16.859
132.5	6.322	7.024	7.727	12.644	14.049

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CANDELA TABULATION - (Cont.)

135.0	6.322	7.024	7.727	10.537	12.644
137.5	6.322	7.024	7.727	9.132	10.537
140.0	6.322	7.024	7.024	8.429	9.132
142.5	6.322	7.024	7.024	7.727	8.429
145.0	6.322	7.024	7.024	7.727	7.727
147.5	6.322	7.024	7.024	7.024	7.727
150.0	6.322	7.024	7.024	7.024	7.024
152.5	6.322	6.322	7.024	7.024	7.024
155.0	6.322	6.322	6.322	7.024	7.024
157.5	6.322	6.322	6.322	6.322	7.024
160.0	6.322	6.322	6.322	6.322	7.024
162.5	5.620	6.322	6.322	6.322	6.322
165.0	5.620	5.620	6.322	6.322	6.322
167.5	5.620	5.620	5.620	6.322	6.322
170.0	5.620	5.620	5.620	6.322	6.322
172.5	5.620	5.620	5.620	5.620	5.620
175.0	5.620	5.620	5.620	5.620	5.620
177.5	5.620	5.620	5.620	5.620	5.620
180.0	5.000	5.000	5.000	5.000	5.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	747.13	N.A.	12.00
0-30	1592.64	N.A.	25.50
0-40	2620.57	N.A.	41.90
0-60	4666.83	N.A.	74.70
0-80	5875.08	N.A.	94.00
0-90	6070.97	N.A.	97.10
10-90	5877.75	N.A.	94.10
20-40	1873.44	N.A.	30.00
20-50	2945.28	N.A.	47.10
40-70	2797.91	N.A.	44.80
60-80	1208.25	N.A.	19.30
70-80	456.59	N.A.	7.30
80-90	195.90	N.A.	3.10
90-110	124.05	N.A.	2.00
90-120	148.99	N.A.	2.40
90-130	161.72	N.A.	2.60
90-150	173.11	N.A.	2.80
90-180	178.45	N.A.	2.90
110-180	54.41	N.A.	0.90
0-180	6249.42	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	193.22
10-20	553.91
20-30	845.51
30-40	1027.93
40-50	1071.84
50-60	974.42
60-70	751.65
70-80	456.59
80-90	195.90
90-100	79.65
100-110	44.40
110-120	24.94
120-130	12.74
130-140	6.87
140-150	4.52
150-160	3.07
160-170	1.73
170-180	0.54

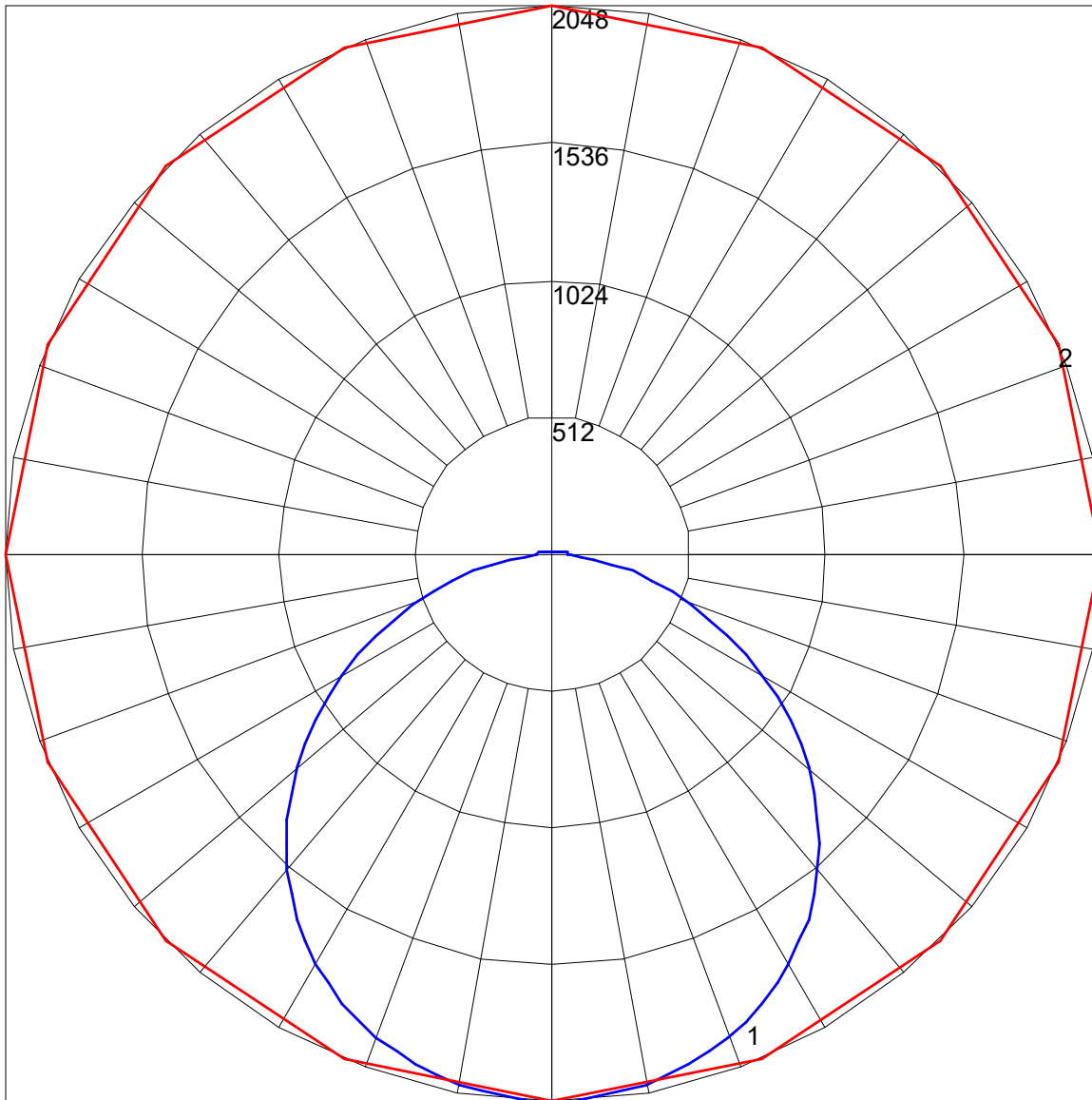
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 2047.61 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.)