



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS100-LR-4-PS-3C-M-90-45W-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-LR-4-PS-3C-M-90-45W-50K

[LUMINAIRE] BS100-LR-4-PS-3C-M-90-45W-50K

[LAMP] 6444 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	6444
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	143
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	8897	6224	5582
55	8190	5236	4624
65	7062	4075	3545
75	5479	2720	2340
85	2784	1437	1220

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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	2111.461	2111.461	2111.461	2111.461	2111.461
2.5	2109.287	2107.114	2104.942	2103.493	2103.493
5.0	2102.044	2097.697	2095.525	2096.249	2094.800
7.5	2091.903	2088.281	2082.487	2079.589	2080.314
10.0	2077.417	2073.070	2066.551	2062.930	2060.756
12.5	2060.756	2053.513	2045.545	2039.026	2037.578
15.0	2038.302	2031.783	2020.193	2012.950	2011.501
17.5	2015.122	2007.156	1990.495	1985.425	1981.803
20.0	1986.874	1976.732	1960.073	1953.553	1949.932
22.5	1954.278	1942.689	1923.131	1919.509	1914.439
25.0	1916.612	1905.747	1885.466	1880.395	1876.773
27.5	1870.978	1863.011	1843.453	1836.935	1831.139
30.0	1824.620	1811.583	1798.545	1790.577	1784.782
32.5	1773.916	1758.705	1749.288	1739.872	1731.180
35.0	1718.142	1703.655	1695.688	1684.098	1674.682
37.5	1657.297	1642.811	1638.464	1625.426	1613.112
40.0	1593.555	1579.069	1577.619	1560.236	1548.646
42.5	1522.570	1511.704	1511.704	1492.871	1479.109
45.0	1445.789	1442.167	1441.443	1421.162	1408.848
47.5	1369.733	1367.559	1366.835	1348.003	1337.138
50.0	1289.331	1294.402	1291.504	1274.844	1263.979
52.5	1204.583	1213.275	1213.275	1198.787	1189.371
55.0	1117.662	1129.976	1133.598	1122.007	1112.591
57.5	1027.118	1042.330	1051.746	1040.882	1032.914
60.0	935.852	954.684	967.723	959.755	952.511
62.5	843.860	867.039	882.974	876.455	869.937
65.0	750.420	777.945	793.881	791.707	785.188
67.5	659.877	689.575	706.959	706.234	699.716
70.0	571.507	601.205	619.314	622.936	616.416
72.5	484.586	515.008	533.116	539.636	536.014
75.0	399.113	429.536	454.888	461.407	457.785
77.5	315.813	347.685	374.486	388.248	384.627
80.0	236.861	273.077	306.397	319.436	316.538
82.5	162.977	207.162	244.828	257.866	254.244
85.0	103.581	155.733	193.399	204.265	199.918
87.5	68.813	117.343	152.112	160.080	155.009
90.0	59.396	91.268	119.517	125.311	120.966
92.5	54.326	73.883	96.338	100.684	97.062
95.0	48.531	61.569	78.953	83.299	80.401
97.5	43.461	51.428	68.088	70.985	69.537
100.0	38.391	43.461	59.396	63.743	62.294
102.5	33.320	36.942	52.152	57.947	57.947
105.0	28.249	30.422	45.634	53.602	54.326
107.5	23.904	25.352	39.115	49.979	50.704
110.0	20.282	21.006	34.044	45.634	47.807
112.5	17.385	17.385	28.973	40.563	43.461
115.0	14.487	14.487	24.628	36.217	39.839
117.5	12.314	12.314	20.282	31.146	35.493
120.0	10.865	10.865	17.385	27.525	30.422
122.5	9.416	9.416	14.487	23.179	26.801
125.0	8.692	8.692	12.314	20.282	23.179
127.5	7.968	7.968	10.865	17.385	20.282
130.0	7.243	7.243	9.416	15.212	17.385
132.5	6.519	7.243	7.968	13.038	14.487

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CANDELA TABULATION - (Cont.)

135.0	6.519	7.243	7.968	10.865	13.038
137.5	6.519	7.243	7.968	9.416	10.865
140.0	6.519	7.243	7.243	8.692	9.416
142.5	6.519	7.243	7.243	7.968	8.692
145.0	6.519	7.243	7.243	7.968	7.968
147.5	6.519	7.243	7.243	7.243	7.968
150.0	6.519	7.243	7.243	7.243	7.243
152.5	6.519	6.519	7.243	7.243	7.243
155.0	6.519	6.519	6.519	7.243	7.243
157.5	6.519	6.519	6.519	6.519	7.243
160.0	6.519	6.519	6.519	6.519	7.243
162.5	5.795	6.519	6.519	6.519	6.519
165.0	5.795	5.795	6.519	6.519	6.519
167.5	5.795	5.795	5.795	6.519	6.519
170.0	5.795	5.795	5.795	6.519	6.519
172.5	5.795	5.795	5.795	5.795	5.795
175.0	5.795	5.795	5.795	5.795	5.795
177.5	5.795	5.795	5.795	5.795	5.795
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	770.43	N.A.	12.00
0-30	1642.3	N.A.	25.50
0-40	2702.29	N.A.	41.90
0-60	4812.36	N.A.	74.70
0-80	6058.28	N.A.	94.00
0-90	6260.28	N.A.	97.10
10-90	6061.04	N.A.	94.10
20-40	1931.86	N.A.	30.00
20-50	3037.12	N.A.	47.10
40-70	2885.16	N.A.	44.80
60-80	1245.92	N.A.	19.30
70-80	470.83	N.A.	7.30
80-90	202.01	N.A.	3.10
90-110	127.91	N.A.	2.00
90-120	153.63	N.A.	2.40
90-130	166.77	N.A.	2.60
90-150	178.51	N.A.	2.80
90-180	184.01	N.A.	2.90
110-180	56.10	N.A.	0.90
0-180	6444.3	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	199.25
10-20	571.18
20-30	871.87
30-40	1059.98
40-50	1105.27
50-60	1004.81
60-70	775.09
70-80	470.83
80-90	202.01
90-100	82.13
100-110	45.78
110-120	25.72
120-130	13.13
130-140	7.08
140-150	4.66
150-160	3.16
160-170	1.79
170-180	0.56

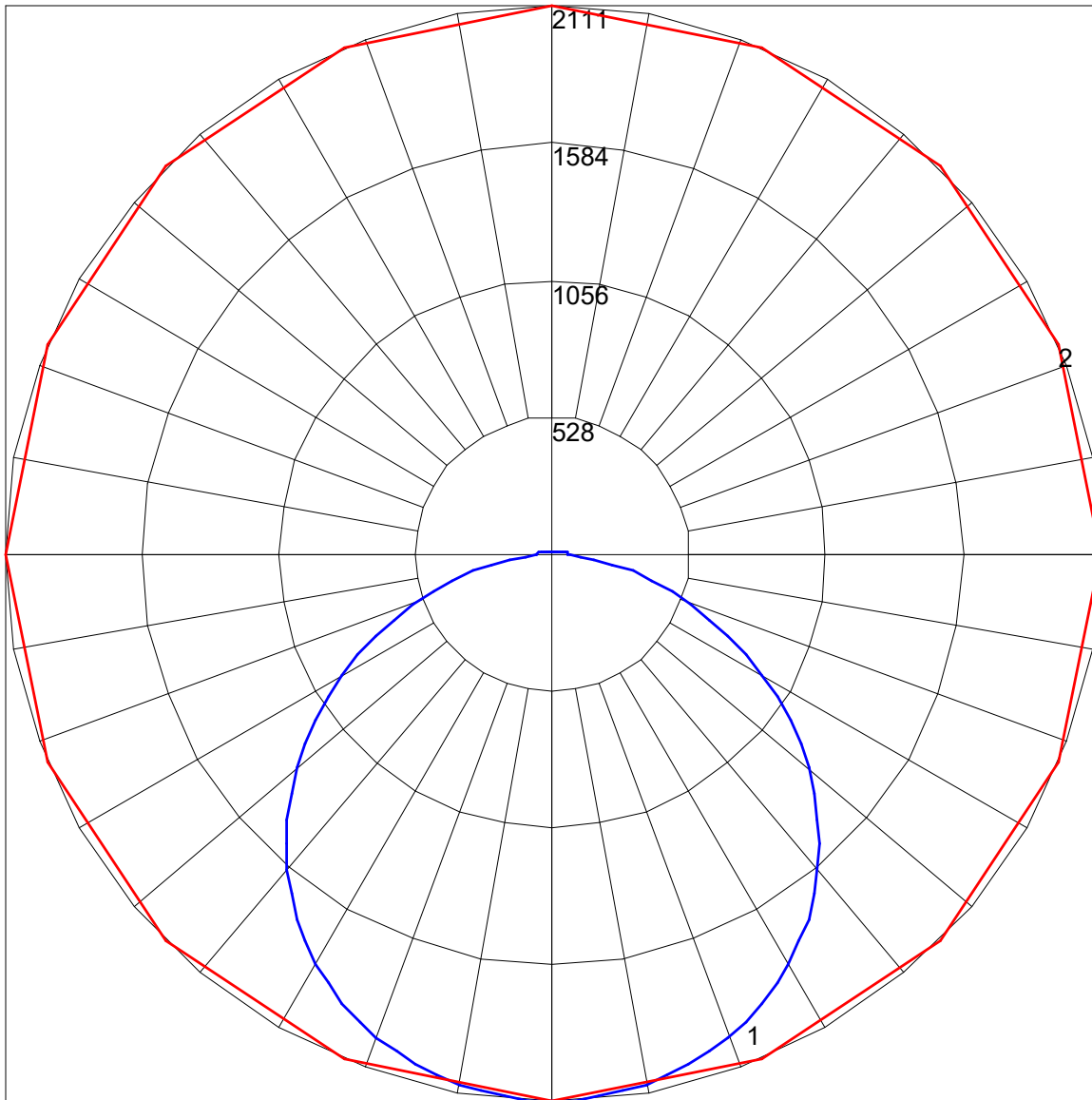
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 2111.461 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.)