



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS100-LR-4-PS-3C-M-90-30W-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-90-30W-50K

[LUMINAIRE] BS100-LR-4-PS-3C-M-90-30W-50K

[LAMP] 4307 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	4307
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	144
Total Luminaire Watts	30
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	5946	4159	3730
55	5474	3499	3090
65	4720	2723	2369
75	3662	1818	1564
85	1861	961	815

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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	1411.140	1411.140	1411.140	1411.140	1411.140
2.5	1409.687	1408.235	1406.783	1405.815	1405.815
5.0	1404.847	1401.942	1400.490	1400.974	1400.005
7.5	1398.069	1395.648	1391.776	1389.839	1390.324
10.0	1388.387	1385.483	1381.126	1378.706	1377.253
12.5	1377.253	1372.412	1367.087	1362.730	1361.762
15.0	1362.246	1357.889	1350.144	1345.303	1344.334
17.5	1346.754	1341.430	1330.296	1326.907	1324.486
20.0	1327.875	1321.098	1309.964	1305.607	1303.186
22.5	1306.091	1298.346	1285.275	1282.854	1279.465
25.0	1280.918	1273.657	1260.102	1256.713	1254.293
27.5	1250.420	1245.095	1232.024	1227.667	1223.794
30.0	1219.437	1210.724	1202.011	1196.685	1192.812
32.5	1185.551	1175.384	1169.091	1162.798	1156.989
35.0	1148.275	1138.594	1133.269	1125.523	1119.230
37.5	1107.612	1097.930	1095.025	1086.311	1078.082
40.0	1065.011	1055.330	1054.361	1042.743	1034.997
42.5	1017.570	1010.308	1010.308	997.721	988.524
45.0	966.255	963.835	963.351	949.796	941.567
47.5	915.425	913.973	913.489	900.902	893.641
50.0	861.691	865.080	863.143	852.009	844.748
52.5	805.051	810.861	810.861	801.178	794.885
55.0	746.960	755.190	757.610	749.864	743.571
57.5	686.448	696.614	702.907	695.646	690.321
60.0	625.452	638.038	646.752	641.427	636.586
62.5	563.972	579.463	590.113	585.756	581.400
65.0	501.524	519.919	530.569	529.117	524.760
67.5	441.012	460.860	472.478	471.993	467.637
70.0	381.952	401.800	413.902	416.323	411.966
72.5	323.860	344.192	356.294	360.652	358.231
75.0	266.737	287.069	304.012	308.369	305.949
77.5	211.065	232.366	250.278	259.475	257.055
80.0	158.300	182.504	204.772	213.487	211.550
82.5	108.921	138.452	163.624	172.338	169.918
85.0	69.226	104.080	129.253	136.515	133.610
87.5	45.989	78.423	101.660	106.985	103.596
90.0	39.695	60.996	79.876	83.748	80.844
92.5	36.307	49.378	64.385	67.290	64.869
95.0	32.434	41.148	52.766	55.671	53.734
97.5	29.046	34.371	45.505	47.441	46.473
100.0	25.657	29.046	39.695	42.601	41.632
102.5	22.269	24.689	34.855	38.728	38.728
105.0	18.880	20.332	30.498	35.824	36.307
107.5	15.976	16.943	26.141	33.402	33.887
110.0	13.555	14.039	22.753	30.498	31.951
112.5	11.619	11.619	19.364	27.109	29.046
115.0	9.682	9.682	16.459	24.205	26.625
117.5	8.229	8.229	13.555	20.816	23.721
120.0	7.262	7.262	11.619	18.396	20.332
122.5	6.293	6.293	9.682	15.491	17.912
125.0	5.809	5.809	8.229	13.555	15.491
127.5	5.325	5.325	7.262	11.619	13.555
130.0	4.841	4.841	6.293	10.166	11.619
132.5	4.357	4.841	5.325	8.713	9.682

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**CANDELA TABULATION - (Cont.)**

<b>135.0</b>	4.357	4.841	5.325	7.262	8.713
<b>137.5</b>	4.357	4.841	5.325	6.293	7.262
<b>140.0</b>	4.357	4.841	4.841	5.809	6.293
<b>142.5</b>	4.357	4.841	4.841	5.325	5.809
<b>145.0</b>	4.357	4.841	4.841	5.325	5.325
<b>147.5</b>	4.357	4.841	4.841	4.841	5.325
<b>150.0</b>	4.357	4.841	4.841	4.841	4.841
<b>152.5</b>	4.357	4.357	4.841	4.841	4.841
<b>155.0</b>	4.357	4.357	4.357	4.841	4.841
<b>157.5</b>	4.357	4.357	4.357	4.357	4.841
<b>160.0</b>	4.357	4.357	4.357	4.357	4.841
<b>162.5</b>	3.873	4.357	4.357	4.357	4.357
<b>165.0</b>	3.873	3.873	4.357	4.357	4.357
<b>167.5</b>	3.873	3.873	3.873	4.357	4.357
<b>170.0</b>	3.873	3.873	3.873	4.357	4.357
<b>172.5</b>	3.873	3.873	3.873	3.873	3.873
<b>175.0</b>	3.873	3.873	3.873	3.873	3.873
<b>177.5</b>	3.873	3.873	3.873	3.873	3.873
<b>180.0</b>	3.000	3.000	3.000	3.000	3.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	514.90	N.A.	12.00
0-30	1097.59	N.A.	25.50
0-40	1806.00	N.A.	41.90
0-60	3216.21	N.A.	74.70
0-80	4048.89	N.A.	94.00
0-90	4183.9	N.A.	97.10
10-90	4050.74	N.A.	94.10
20-40	1291.11	N.A.	30.00
20-50	2029.78	N.A.	47.10
40-70	1928.22	N.A.	44.80
60-80	832.68	N.A.	19.30
70-80	314.67	N.A.	7.30
80-90	135.00	N.A.	3.10
90-110	85.49	N.A.	2.00
90-120	102.68	N.A.	2.40
90-130	111.45	N.A.	2.60
90-150	119.30	N.A.	2.80
90-180	122.98	N.A.	2.90
110-180	37.49	N.A.	0.90
0-180	4306.88	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	133.16
10-20	381.74
20-30	582.69
30-40	708.41
40-50	738.68
50-60	671.54
60-70	518.01
70-80	314.67
80-90	135.00
90-100	54.89
100-110	30.60
110-120	17.19
120-130	8.78
130-140	4.73
140-150	3.12
150-160	2.11
160-170	1.19
170-180	0.37

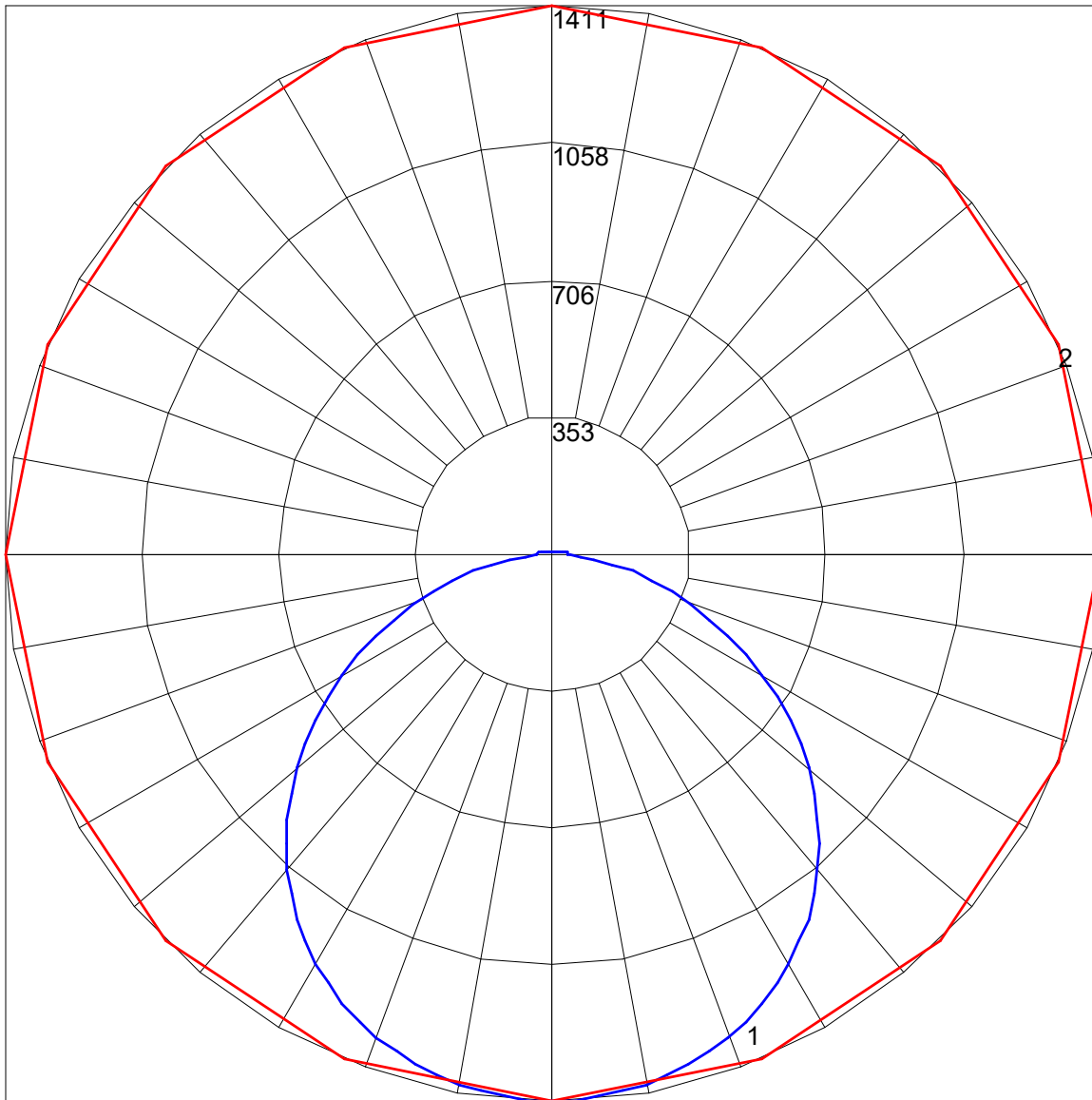
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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 = 1411.14 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.)