



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS100-L-4-PS-3C-M-90-30W-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-90-30W-40K

[LUMINAIRE] BS100-L-4-PS-3C-M-90-30W-40K

[LAMP] 4467 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	4467
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	149
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	6167	4314	3869
55	5677	3629	3205
65	4895	2824	2457
75	3798	1885	1622
85	1930	996	846

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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	1463.561	1463.561	1463.561	1463.561	1463.561
2.5	1462.055	1460.548	1459.043	1458.038	1458.038
5.0	1457.034	1454.021	1452.515	1453.017	1452.013
7.5	1450.005	1447.494	1443.478	1441.470	1441.972
10.0	1439.963	1436.951	1432.432	1429.922	1428.415
12.5	1428.415	1423.395	1417.872	1413.353	1412.349
15.0	1412.851	1408.333	1400.299	1395.279	1394.274
17.5	1396.784	1391.262	1379.714	1376.200	1373.689
20.0	1377.204	1370.174	1358.627	1354.108	1351.597
22.5	1354.610	1346.577	1333.020	1330.510	1326.995
25.0	1328.502	1320.971	1306.912	1303.398	1300.887
27.5	1296.871	1291.348	1277.792	1273.273	1269.256
30.0	1264.738	1255.700	1246.663	1241.140	1237.123
32.5	1229.592	1219.048	1212.521	1205.994	1199.969
35.0	1190.932	1180.890	1175.368	1167.334	1160.808
37.5	1148.757	1138.716	1135.703	1126.666	1118.130
40.0	1104.574	1094.533	1093.529	1081.479	1073.446
42.5	1055.371	1047.840	1047.840	1034.785	1025.246
45.0	1002.150	999.640	999.138	985.079	976.544
47.5	949.432	947.925	947.423	934.369	926.839
50.0	893.701	897.216	895.208	883.659	876.129
52.5	834.958	840.983	840.983	830.941	824.414
55.0	774.709	783.244	785.754	777.721	771.194
57.5	711.948	722.492	729.019	721.488	715.965
60.0	648.686	661.740	670.778	665.255	660.235
62.5	584.922	600.989	612.035	607.516	602.997
65.0	520.154	539.233	550.279	548.772	544.254
67.5	457.395	477.980	490.029	489.528	485.009
70.0	396.140	416.726	429.278	431.788	427.270
72.5	335.891	356.979	369.530	374.049	371.539
75.0	276.646	297.733	315.306	319.825	317.314
77.5	218.907	240.998	259.576	269.115	266.604
80.0	164.180	189.284	212.379	221.417	219.409
82.5	112.968	143.595	169.703	178.740	176.230
85.0	71.798	107.947	134.055	141.587	138.574
87.5	47.698	81.337	105.437	110.959	107.445
90.0	41.170	63.262	82.843	86.860	83.847
92.5	37.656	51.212	66.777	69.789	67.279
95.0	33.639	42.676	54.727	57.739	55.731
97.5	30.125	35.648	47.195	49.204	48.200
100.0	26.611	30.125	41.170	44.183	43.178
102.5	23.096	25.606	36.150	40.167	40.167
105.0	19.581	21.088	31.631	37.154	37.656
107.5	16.569	17.573	27.112	34.644	35.146
110.0	14.058	14.560	23.598	31.631	33.137
112.5	12.050	12.050	20.083	28.116	30.125
115.0	10.042	10.042	17.071	25.104	27.614
117.5	8.535	8.535	14.058	21.589	24.602
120.0	7.532	7.532	12.050	19.079	21.088
122.5	6.527	6.527	10.042	16.067	18.577
125.0	6.025	6.025	8.535	14.058	16.067
127.5	5.523	5.523	7.532	12.050	14.058
130.0	5.021	5.021	6.527	10.544	12.050
132.5	4.519	5.021	5.523	9.037	10.042

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**CANDELA TABULATION - (Cont.)**

<b>135.0</b>	4.519	5.021	5.523	7.532	9.037
<b>137.5</b>	4.519	5.021	5.523	6.527	7.532
<b>140.0</b>	4.519	5.021	5.021	6.025	6.527
<b>142.5</b>	4.519	5.021	5.021	5.523	6.025
<b>145.0</b>	4.519	5.021	5.021	5.523	5.523
<b>147.5</b>	4.519	5.021	5.021	5.021	5.523
<b>150.0</b>	4.519	5.021	5.021	5.021	5.021
<b>152.5</b>	4.519	4.519	5.021	5.021	5.021
<b>155.0</b>	4.519	4.519	4.519	5.021	5.021
<b>157.5</b>	4.519	4.519	4.519	4.519	5.021
<b>160.0</b>	4.519	4.519	4.519	4.519	5.021
<b>162.5</b>	4.017	4.519	4.519	4.519	4.519
<b>165.0</b>	4.017	4.017	4.519	4.519	4.519
<b>167.5</b>	4.017	4.017	4.017	4.519	4.519
<b>170.0</b>	4.017	4.017	4.017	4.519	4.519
<b>172.5</b>	4.017	4.017	4.017	4.017	4.017
<b>175.0</b>	4.017	4.017	4.017	4.017	4.017
<b>177.5</b>	4.017	4.017	4.017	4.017	4.017
<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	534.02	N.A.	12.00
0-30	1138.36	N.A.	25.50
0-40	1873.09	N.A.	41.90
0-60	3335.69	N.A.	74.70
0-80	4199.3	N.A.	94.00
0-90	4339.32	N.A.	97.10
10-90	4201.21	N.A.	94.10
20-40	1339.07	N.A.	30.00
20-50	2105.18	N.A.	47.10
40-70	1999.85	N.A.	44.80
60-80	863.61	N.A.	19.30
70-80	326.36	N.A.	7.30
80-90	140.02	N.A.	3.10
90-110	88.66	N.A.	2.00
90-120	106.49	N.A.	2.40
90-130	115.59	N.A.	2.60
90-150	123.74	N.A.	2.80
90-180	127.55	N.A.	2.90
110-180	38.89	N.A.	0.90
0-180	4466.87	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	138.11
10-20	395.92
20-30	604.34
30-40	734.73
40-50	766.12
50-60	696.48
60-70	537.25
70-80	326.36
80-90	140.02
90-100	56.93
100-110	31.73
110-120	17.83
120-130	9.10
130-140	4.91
140-150	3.23
150-160	2.19
160-170	1.24
170-180	0.38

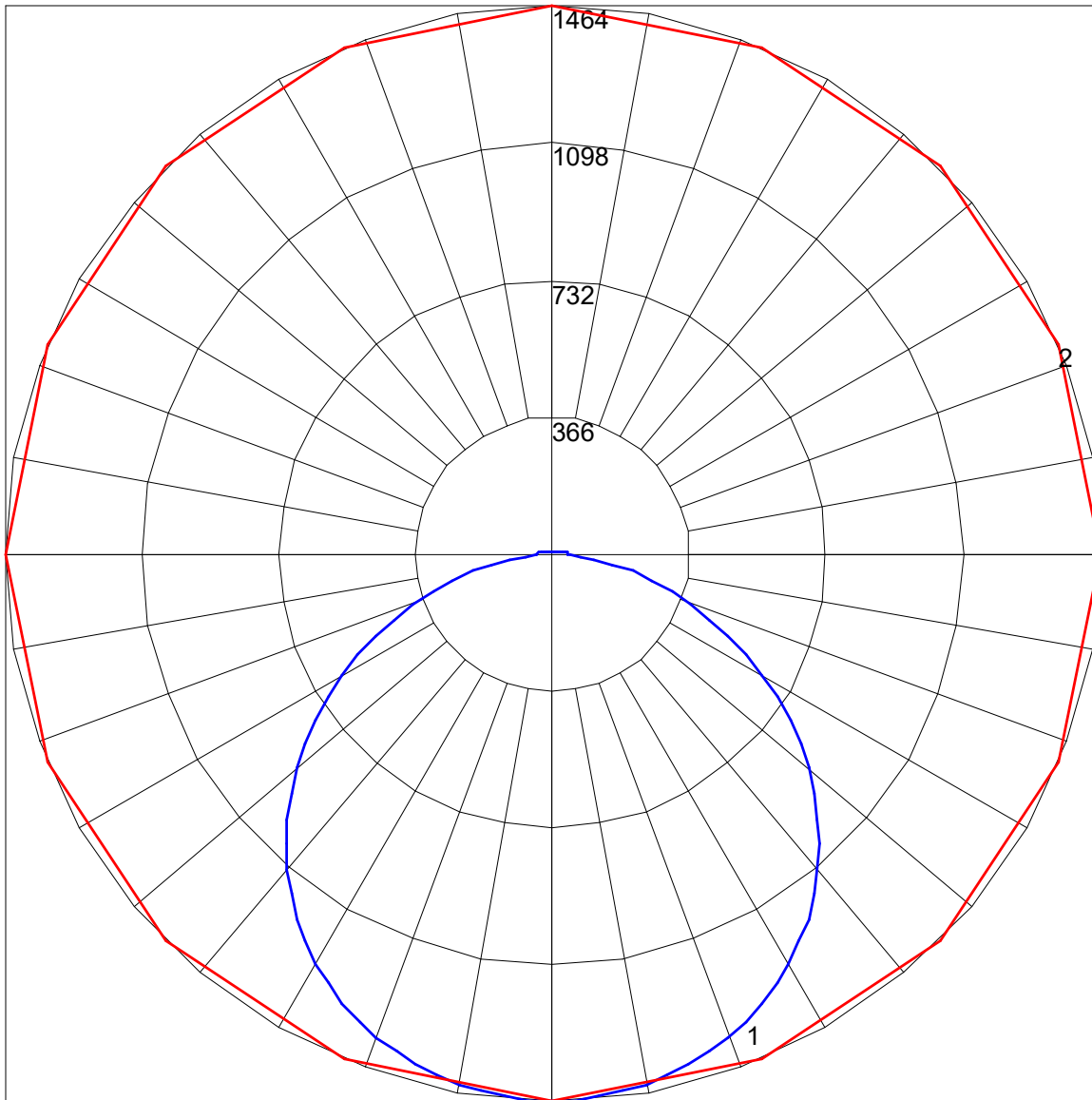
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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 = 1463.561 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.)