



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS100L-4H-35K.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[ISSUEDATE] 24 August 2020

[TESTLAB] Spectra Lux

[TEST] S2008242-R1 CONFIG

[MANUFAC] Beluce Canada Inc.

[LUMCAT] BS100L-4H-35K

[LUMINAIRE] BS100L-4H-35K

[LAMP] Clusters of Seoul STW8A2PD-E1 LEDs c/w Universal Driver D10CC30347TW-C

[BURNING] Vertical Base Up (8525 Luminaire Lumens)

[REFLECTOR] White Painted Plate

[LENS] Diffuse Convex Polycarbonate

[HOUSING] Molded Polymer

[NOMINAL COLOR] 3500 K

[DRIVE CURRENT] 47.58 mA /LED

[SEARCH_SOURCETYPE] LED

[SEARCH_APPLICATION] Indoor, Canopy, Classroom, Garage, Corrosion Resistant, Vandal Resistant

[SEARCH_MOUNTING] Surface

[SEARCH_CERTIFICATION] CSA

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	8525
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	138
Total Luminaire Watts	61.91
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.20
Spacing Criterion (Diagonal)	1.34
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.04 ft
Luminous Width (90-270)	0.54 ft
Luminous Height	0.13 ft

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BS100L-4H-35K.IES

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	14216	11490	10535
55	13246	10081	8983
65	11758	8198	6998
75	9124	5740	4536
85	5452	3460	2737

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BS100L-4H-35K.IES

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>
0.0	3109.572	3109.572	3109.572	3109.572	3109.572	3109.572	3109.572	3109.572	3109.572
2.5	3090.867	3084.629	3082.552	3084.629	3078.396	3084.629	3082.552	3084.629	3090.867
5.0	3090.867	3082.552	3051.372	3049.293	3038.902	3049.293	3051.372	3082.552	3090.867
7.5	3059.687	3043.059	3034.744	3013.957	3024.352	3013.957	3034.744	3043.059	3059.687
10.0	3047.215	3022.273	2995.251	2974.466	2964.072	2974.466	2995.251	3022.273	3047.215
12.5	3034.744	3001.486	2943.286	2920.422	2903.793	2920.422	2943.286	3001.486	3034.744
15.0	2982.779	2945.366	2910.031	2874.693	2872.613	2874.693	2910.031	2945.366	2982.779
17.5	2953.679	2903.793	2853.907	2822.729	2804.021	2822.729	2853.907	2903.793	2953.679
20.0	2926.659	2860.141	2789.470	2760.371	2741.664	2760.371	2789.470	2860.141	2926.659
22.5	2851.830	2787.392	2743.741	2695.935	2687.621	2695.935	2743.741	2787.392	2851.830
25.0	2793.627	2729.190	2668.912	2629.419	2608.633	2629.419	2668.912	2729.190	2793.627
27.5	2749.979	2673.070	2585.769	2548.354	2527.570	2548.354	2585.769	2673.070	2749.979
30.0	2675.147	2581.612	2523.410	2469.368	2454.816	2469.368	2523.410	2581.612	2675.147
32.5	2598.241	2504.703	2438.189	2386.225	2367.517	2386.225	2438.189	2504.703	2598.241
35.0	2519.254	2425.717	2342.573	2292.686	2265.665	2292.686	2342.573	2425.717	2519.254
37.5	2421.560	2317.628	2261.510	2201.229	2182.522	2201.229	2261.510	2317.628	2421.560
40.0	2334.258	2226.173	2159.656	2105.613	2076.513	2105.613	2159.656	2226.173	2334.258
42.5	2230.328	2130.557	2055.728	1993.370	1964.269	1993.370	2055.728	2130.557	2230.328
45.0	2109.771	2012.077	1960.112	1891.519	1866.575	1891.519	1960.112	2012.077	2109.771
47.5	1995.449	1901.912	1843.713	1777.195	1748.097	1777.195	1843.713	1901.912	1995.449
50.0	1874.891	1791.746	1723.153	1660.794	1627.537	1660.794	1723.153	1791.746	1874.891
52.5	1741.860	1660.794	1615.067	1546.472	1517.372	1546.472	1615.067	1660.794	1741.860
55.0	1615.067	1538.157	1488.271	1423.835	1394.734	1423.835	1488.271	1538.157	1615.067
57.5	1494.509	1415.521	1357.321	1297.041	1265.862	1297.041	1357.321	1415.521	1494.509
60.0	1346.927	1278.333	1240.920	1174.405	1149.460	1174.405	1240.920	1278.333	1346.927
62.5	1207.662	1157.776	1109.969	1051.766	1022.667	1051.766	1109.969	1157.776	1207.662
65.0	1078.791	1028.904	985.252	929.131	900.028	929.131	985.252	1028.904	1078.791
67.5	935.365	895.872	862.616	808.572	781.550	808.572	862.616	895.872	935.365
70.0	808.572	771.157	739.977	685.936	658.913	685.936	739.977	771.157	808.572
72.5	673.464	652.678	615.265	571.613	548.749	571.613	615.265	652.678	673.464
75.0	536.277	530.041	511.334	465.603	444.819	465.603	511.334	530.041	536.277
77.5	415.719	424.034	405.324	372.067	353.361	372.067	405.324	424.034	415.719
80.0	303.474	328.418	315.947	293.081	278.530	293.081	315.947	328.418	303.474
82.5	205.781	249.432	243.193	232.804	226.565	232.804	243.193	249.432	205.781
85.0	130.951	189.152	191.232	182.916	176.679	182.916	191.232	189.152	130.951
87.5	94.575	147.582	149.659	150.004	145.501	150.004	149.659	147.582	94.575
90.0	78.986	114.322	116.400	120.559	118.478	120.559	116.400	114.322	78.986
92.5	72.751	89.380	95.616	99.772	97.694	99.772	95.616	89.380	72.751
95.0	66.514	72.751	74.831	81.063	83.142	81.063	74.831	72.751	66.514
97.5	56.121	60.279	62.358	70.672	72.751	70.672	62.358	60.279	56.121
100.0	51.964	49.886	51.964	58.201	62.358	58.201	49.886	51.964	51.964
102.5	41.573	41.573	47.806	54.043	54.043	54.043	47.806	41.573	41.573
105.0	35.336	33.258	37.414	45.730	47.806	45.730	37.414	33.258	35.336
107.5	29.101	29.101	31.180	39.490	41.573	39.490	31.180	29.101	29.101
110.0	24.944	24.944	29.101	35.336	37.414	35.336	29.101	24.944	24.944
112.5	20.785	18.706	22.862	27.023	31.180	27.023	22.862	18.706	20.785
115.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BS100L-4H-35K.IES

CANDELA TABULATION - (Cont.)

135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BS100L-4H-35K.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1112.76	N.A.	13.10
0-30	2349.02	N.A.	27.60
0-40	3827.37	N.A.	44.90
0-60	6669.2	N.A.	78.20
0-80	8176.66	N.A.	95.90
0-90	8385.42	N.A.	98.40
10-90	8095.06	N.A.	95.00
20-40	2714.61	N.A.	31.80
20-50	4226.65	N.A.	49.60
40-70	3814.47	N.A.	44.70
60-80	1507.46	N.A.	17.70
70-80	534.82	N.A.	6.30
80-90	208.77	N.A.	2.40
90-110	129.61	N.A.	1.50
90-120	139.45	N.A.	1.60
90-130	139.45	N.A.	1.60
90-150	139.45	N.A.	1.60
90-180	139.45	N.A.	1.60
110-180	9.84	N.A.	0.10
0-180	8524.87	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	290.37
10-20	822.39
20-30	1236.26
30-40	1478.35
40-50	1512.05
50-60	1329.79
60-70	972.64
70-80	534.82
80-90	208.77
90-100	86.32
100-110	43.29
110-120	9.84
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

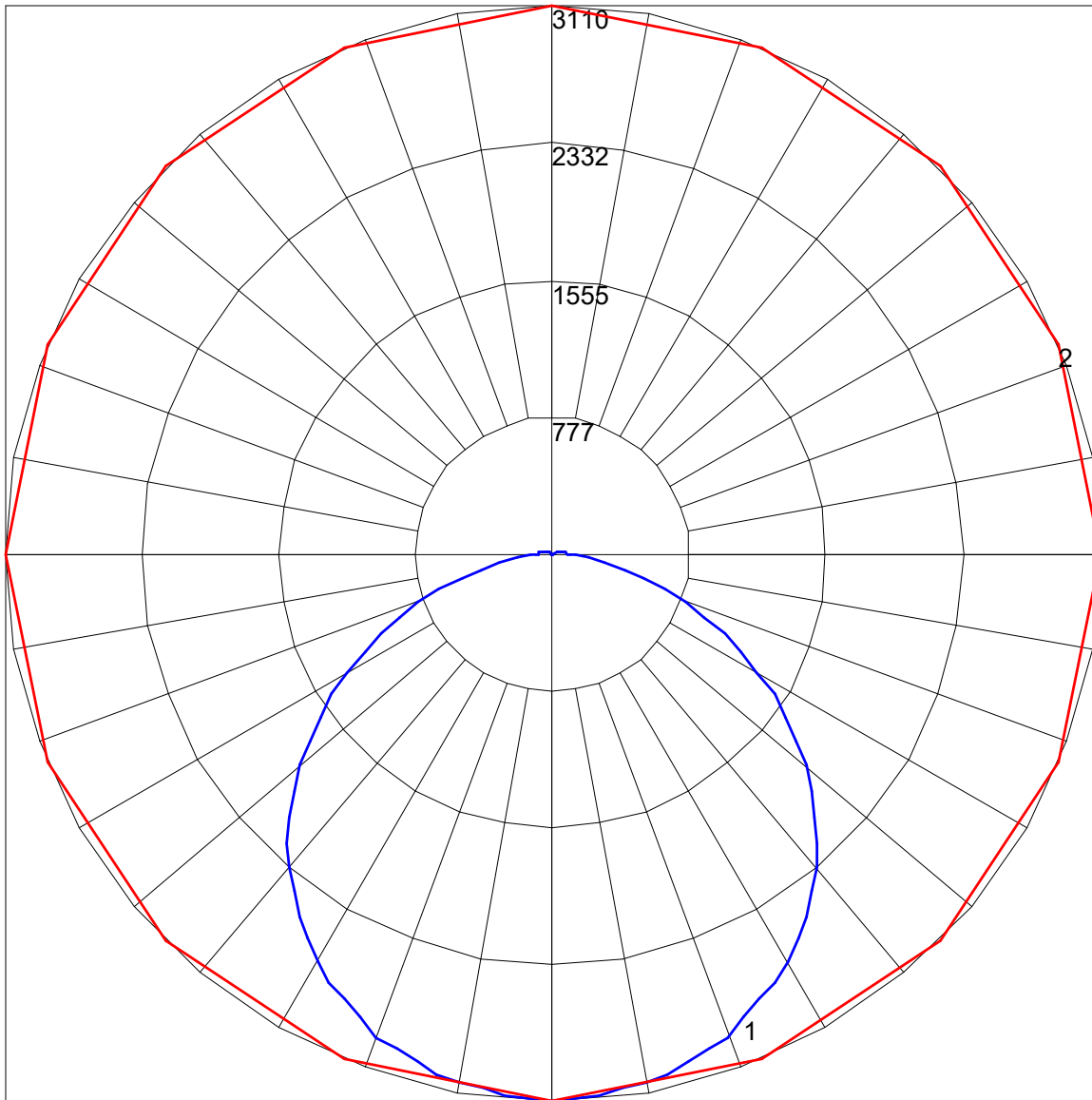
IES INDOOR REPORT
PHOTOMETRIC FILENAME : BS100L-4H-35K.IES

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	119	119	119	119	116	116	116	116	110	110	110	105	105	105	101	101	101	98
1	108	103	99	95	105	101	97	94	97	93	90	92	90	87	88	86	84	82
2	99	90	84	78	96	88	82	77	84	79	75	81	77	73	78	74	71	69
3	90	79	71	65	87	78	70	64	75	68	63	72	66	61	69	64	60	58
4	82	70	62	55	80	69	61	55	66	59	54	64	58	53	61	56	52	50
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	55	50	45	43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	50	44	40	38
7	65	51	43	37	63	51	42	36	49	41	36	47	41	36	46	40	35	33
8	60	47	39	33	59	46	38	33	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	35	29	41	34	29	40	33	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	26	37	31	26	36	30	26	24

POLAR GRAPH



Maximum Candela = 3109.572 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.)