



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS100L-4H-5K.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-5K

[LUMINAIRE] BS100L-4H-5K

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

[BURNING] Vertical Base Up (8823 Luminaire Lumens)

[REFLECTOR] White Painted Plate

[LENS] Diffuse Convex Polycarbonate

[HOUSING] Molded Polymer

[NOMINAL COLOR] 5000 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	8823
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	143
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

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LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	14712	11891	10903
55	13708	10433	9297
65	12169	8484	7242
75	9443	5940	4694
85	5643	3581	2833

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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>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>
0.0	3218.151	3218.151	3218.151	3218.151	3218.151	3218.151	3218.151	3218.151	3218.151
2.5	3198.792	3192.337	3190.187	3192.337	3185.886	3192.337	3190.187	3192.337	3198.792
5.0	3198.792	3190.187	3157.919	3155.767	3145.014	3155.767	3157.919	3190.187	3198.792
7.5	3166.524	3149.316	3140.710	3119.197	3129.955	3119.197	3140.710	3149.316	3166.524
10.0	3153.617	3127.804	3099.838	3078.327	3067.571	3078.327	3099.838	3127.804	3153.617
12.5	3140.710	3106.291	3046.059	3022.396	3005.186	3022.396	3046.059	3106.291	3140.710
15.0	3086.930	3048.211	3011.642	2975.070	2972.918	2975.070	3011.642	3048.211	3086.930
17.5	3056.814	3005.186	2953.559	2921.291	2901.931	2921.291	2953.559	3005.186	3056.814
20.0	3028.850	2960.011	2886.871	2856.756	2837.396	2856.756	2886.871	2960.011	3028.850
22.5	2951.409	2884.721	2839.545	2790.071	2781.466	2790.071	2839.545	2884.721	2951.409
25.0	2891.173	2824.487	2762.104	2721.232	2699.720	2721.232	2762.104	2824.487	2891.173
27.5	2846.002	2766.407	2676.057	2637.336	2615.826	2637.336	2676.057	2766.407	2846.002
30.0	2768.557	2671.755	2611.521	2555.592	2540.532	2555.592	2611.521	2671.755	2768.557
32.5	2688.965	2592.161	2523.325	2469.546	2450.185	2469.546	2523.325	2592.161	2688.965
35.0	2607.220	2510.417	2424.370	2372.741	2344.776	2372.741	2424.370	2510.417	2607.220
37.5	2506.115	2398.554	2340.476	2278.091	2258.730	2278.091	2340.476	2398.554	2506.115
40.0	2415.765	2303.906	2235.066	2179.136	2149.020	2179.136	2235.066	2303.906	2415.765
42.5	2308.206	2204.951	2127.510	2062.974	2032.857	2062.974	2127.510	2204.951	2308.206
45.0	2183.440	2082.334	2028.555	1957.566	1931.751	1957.566	2028.555	2082.334	2183.440
47.5	2065.125	1968.322	1908.091	1839.250	1809.136	1839.250	1908.091	1968.322	2065.125
50.0	1940.358	1854.309	1783.321	1718.784	1684.366	1718.784	1783.321	1854.309	1940.358
52.5	1802.682	1718.784	1671.461	1600.471	1570.355	1600.471	1671.461	1718.784	1802.682
55.0	1671.461	1591.866	1540.238	1473.552	1443.434	1473.552	1540.238	1591.866	1671.461
57.5	1546.693	1464.947	1404.715	1342.331	1310.063	1342.331	1404.715	1464.947	1546.693
60.0	1393.959	1322.969	1284.250	1215.412	1189.596	1215.412	1284.250	1322.969	1393.959
62.5	1249.830	1198.203	1148.727	1088.492	1058.377	1088.492	1148.727	1198.203	1249.830
65.0	1116.460	1064.831	1019.655	961.574	931.455	961.574	1019.655	1064.831	1116.460
67.5	968.026	927.154	892.737	836.805	808.839	836.805	892.737	927.154	968.026
70.0	836.805	798.084	765.815	709.887	681.921	709.887	765.815	798.084	836.805
72.5	696.979	675.468	636.748	591.573	567.910	591.573	636.748	675.468	696.979
75.0	555.002	548.549	529.188	481.860	460.351	481.860	529.188	548.549	555.002
77.5	430.235	438.840	419.477	385.059	365.699	385.059	419.477	438.840	430.235
80.0	314.070	339.885	326.979	303.315	288.255	303.315	326.979	339.885	314.070
82.5	212.967	258.141	251.685	240.933	234.476	240.933	251.685	258.141	212.967
85.0	135.524	195.757	197.909	189.303	182.849	189.303	197.909	195.757	135.524
87.5	97.877	152.736	154.885	155.242	150.581	155.242	154.885	152.736	97.877
90.0	81.744	118.314	120.464	124.769	122.615	124.769	120.464	118.314	81.744
92.5	75.292	92.501	98.955	103.256	101.106	103.256	98.955	92.501	75.292
95.0	68.836	75.292	77.444	83.894	86.045	83.894	77.444	75.292	68.836
97.5	58.081	62.384	64.535	73.140	75.292	73.140	64.535	62.384	58.081
100.0	53.779	51.628	53.779	60.233	64.535	60.233	53.779	51.628	53.779
102.5	43.025	43.025	49.476	55.930	55.930	55.930	49.476	43.025	43.025
105.0	36.570	34.419	38.720	47.327	49.476	47.327	38.720	34.419	36.570
107.5	30.117	30.117	32.268	40.869	43.025	40.869	32.268	30.117	30.117
110.0	25.815	25.815	30.117	36.570	38.720	36.570	30.117	25.815	25.815
112.5	21.511	19.360	23.661	27.966	32.268	27.966	23.661	19.360	21.511
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

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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

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1151.62	N.A.	13.10
0-30	2431.04	N.A.	27.60
0-40	3961.01	N.A.	44.90
0-60	6902.07	N.A.	78.20
0-80	8462.17	N.A.	95.90
0-90	8678.22	N.A.	98.40
10-90	8377.72	N.A.	95.00
20-40	2809.39	N.A.	31.80
20-50	4374.24	N.A.	49.60
40-70	3947.67	N.A.	44.70
60-80	1560.09	N.A.	17.70
70-80	553.49	N.A.	6.30
80-90	216.05	N.A.	2.40
90-110	134.14	N.A.	1.50
90-120	144.32	N.A.	1.60
90-130	144.32	N.A.	1.60
90-150	144.32	N.A.	1.60
90-180	144.32	N.A.	1.60
110-180	10.18	N.A.	0.10
0-180	8822.54	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	300.50
10-20	851.11
20-30	1279.42
30-40	1529.97
40-50	1564.85
50-60	1376.22
60-70	1006.6
70-80	553.49
80-90	216.05
90-100	89.34
100-110	44.80
110-120	10.18
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

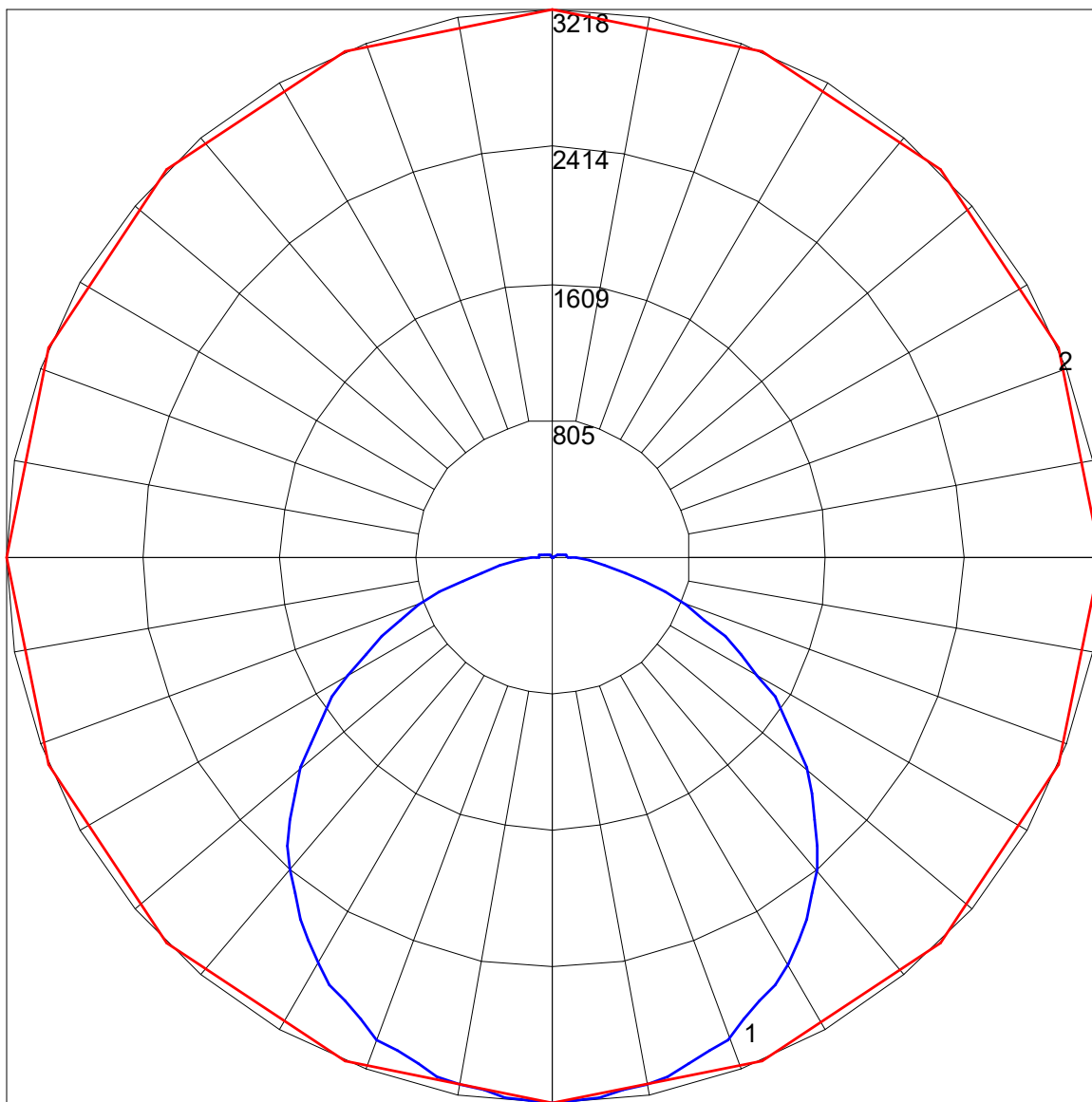
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	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	96	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 = 3218.151 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.)