



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS100LEDPLUS2HTHOWT50120-277V-FL\_S.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TESTLAB] Photopia 2017.0.4 see: [www.ltioptics.com/ies](http://www.ltioptics.com/ies)

[ISSUEDATE]

[TESTDATE] Thu Jun 29 17:46:49 2017

[MANUFAC] BEGHELLI

[LUMINAIRE] BS100LEDPLUS2HTHOWT50120-277V-FL

[LAMP] LED 0.428W White 3030 package (150mA)

[LAMPCAT] SPMWHT328FD5WAV0S0

[OTHER] Indoor Photometric Report

[OTHER] LUMINAIRE PROPERTIES

[OTHER] Number of lamps: 96

[OTHER] Lumens per lamp: 91.7

[OTHER] Input watts: 70

[OTHER] Distribution: Direct

[OTHER] Symmetry: Quadrilateral

[OTHER] Photometric Type: C

[OTHER] Luminous shape: Rectangle

[OTHER] Luminous dimensions (feet)

[OTHER] 0 - 180 Axis: 2.3

[OTHER] 90 - 270 Axis: 0.6

[OTHER] Height: 0.3

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	8299
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	119
Total Luminaire Watts	70
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	2.28 ft
Luminous Width (90-270)	0.55 ft
Luminous Height	0.32 ft

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : BS100LEDPLUS2HTHOWT50120-277V-FL\_S.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	19142	15048	15055
55	15962	12610	12674
65	11860	9747	10143
75	7714	6521	6817
85	4743	3405	3490

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**CANDELA TABULATION**

	<b>0</b>	<b>15</b>	<b>30</b>	<b>45</b>	<b>60</b>	<b>75</b>	<b>90</b>
<b>0.0</b>	2890.52	2890.52	2890.52	2890.52	2890.52	2890.52	2890.52
<b>2.5</b>	2899.49	2912.18	2902.90	2915.86	2887.58	2905.29	2883.54
<b>5.0</b>	2904.86	2905.03	2906.38	2885.35	2890.20	2894.09	2905.57
<b>7.5</b>	2868.65	2852.31	2865.37	2871.12	2880.22	2878.82	2871.98
<b>10.0</b>	2824.46	2832.10	2835.66	2839.40	2847.22	2849.58	2841.59
<b>12.5</b>	2781.21	2802.69	2793.89	2813.53	2809.89	2814.17	2814.24
<b>15.0</b>	2763.03	2753.96	2760.07	2775.58	2763.45	2772.80	2784.64
<b>17.5</b>	2705.31	2720.07	2714.00	2720.96	2723.31	2718.69	2729.20
<b>20.0</b>	2652.65	2650.54	2653.32	2652.56	2671.93	2672.56	2686.85
<b>22.5</b>	2595.99	2593.79	2600.70	2598.89	2627.51	2634.98	2638.62
<b>25.0</b>	2519.13	2533.97	2535.15	2546.77	2558.51	2581.50	2575.72
<b>27.5</b>	2455.39	2456.51	2463.80	2474.50	2499.68	2523.71	2531.26
<b>30.0</b>	2378.56	2387.75	2388.30	2413.96	2437.75	2453.98	2464.36
<b>32.5</b>	2301.26	2303.16	2315.21	2331.53	2357.62	2383.12	2405.84
<b>35.0</b>	2223.40	2227.63	2227.56	2258.61	2273.05	2302.92	2327.36
<b>37.5</b>	2127.56	2125.78	2146.60	2165.66	2187.16	2229.03	2258.96
<b>40.0</b>	2032.13	2032.36	2044.22	2071.88	2094.07	2143.88	2170.67
<b>42.5</b>	1925.53	1929.09	1951.96	1975.60	2009.84	2047.40	2066.47
<b>45.0</b>	1813.85	1820.05	1851.62	1879.72	1912.58	1946.55	1966.94
<b>47.5</b>	1689.17	1703.92	1739.35	1775.88	1819.85	1849.17	1886.96
<b>50.0</b>	1564.32	1578.44	1623.45	1675.91	1711.37	1743.12	1775.06
<b>52.5</b>	1430.50	1454.06	1509.78	1568.62	1608.81	1640.11	1666.58
<b>55.0</b>	1290.90	1325.26	1396.01	1460.39	1499.71	1526.55	1551.90
<b>57.5</b>	1156.18	1188.32	1276.33	1345.01	1388.57	1414.96	1448.88
<b>60.0</b>	1015.99	1063.31	1155.15	1236.66	1278.99	1306.55	1339.22
<b>62.5</b>	887.60	930.65	1032.92	1121.65	1168.05	1197.24	1233.20
<b>65.0</b>	765.32	808.78	915.84	1005.74	1057.37	1091.41	1121.14
<b>67.5</b>	646.21	691.72	799.34	894.32	950.20	983.19	1008.04
<b>70.0</b>	536.50	584.14	690.27	781.24	839.35	866.21	893.22
<b>72.5</b>	440.43	486.23	582.72	673.67	727.90	751.93	773.28
<b>75.0</b>	356.59	398.17	485.84	570.11	615.91	634.30	649.32
<b>77.5</b>	282.79	321.42	396.10	470.59	508.20	519.41	530.65
<b>80.0</b>	219.46	253.91	317.13	378.44	410.89	420.98	434.04
<b>82.5</b>	169.30	196.07	248.97	300.59	327.31	336.82	340.98
<b>85.0</b>	125.78	150.53	190.69	234.94	258.38	263.92	269.04
<b>87.5</b>	91.72	112.18	145.37	182.24	200.78	206.75	208.20
<b>90.0</b>	62.22	82.36	111.28	139.71	154.46	158.83	160.01
<b>92.5</b>	43.79	60.13	84.09	106.83	119.66	123.41	123.52
<b>95.0</b>	31.21	44.52	63.79	82.98	92.17	95.20	96.04
<b>97.5</b>	24.00	34.34	50.92	64.53	72.45	75.01	76.43
<b>100.0</b>	19.51	26.99	39.95	51.42	58.11	61.06	62.84
<b>102.5</b>	16.75	22.08	33.40	41.09	47.26	49.89	50.62
<b>105.0</b>	14.31	18.43	26.44	32.96	38.55	42.09	43.32
<b>107.5</b>	12.68	16.05	21.91	27.07	32.01	35.33	37.33
<b>110.0</b>	11.21	13.86	17.63	21.80	26.54	30.20	31.54
<b>112.5</b>	10.45	11.97	14.62	17.48	21.27	25.09	25.75
<b>115.0</b>	9.18	10.07	12.11	13.74	17.45	20.41	21.69
<b>117.5</b>	7.92	8.66	9.60	10.89	13.91	16.58	17.23
<b>120.0</b>	6.83	7.15	7.41	8.29	10.94	13.65	14.75
<b>122.5</b>	5.90	6.02	5.47	6.14	8.59	10.37	11.13
<b>125.0</b>	4.57	4.96	4.18	4.54	6.58	8.38	8.71
<b>127.5</b>	3.97	3.85	3.26	3.25	4.61	6.41	6.96
<b>130.0</b>	3.09	3.00	2.22	2.14	3.48	4.40	5.44
<b>132.5</b>	2.44	2.14	1.71	1.32	2.35	3.33	3.76

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<b>135.0</b>	1.64	1.70	1.03	0.66	1.64	2.26	2.61
<b>137.5</b>	1.14	0.93	0.60	0.44	0.86	1.58	1.94
<b>140.0</b>	0.66	0.63	0.39	0.25	0.29	0.78	1.14
<b>142.5</b>	0.40	0.29	0.16	0.17	0.22	0.36	0.57
<b>145.0</b>	0.20	0.18	0.19	0.14	0.16	0.23	0.21
<b>147.5</b>	0.17	0.17	0.25	0.20	0.14	0.19	0.18
<b>150.0</b>	0.27	0.28	0.33	0.33	0.22	0.14	0.18
<b>152.5</b>	0.34	0.41	0.38	0.44	0.36	0.26	0.17
<b>155.0</b>	0.51	0.47	0.62	0.68	0.33	0.38	0.34
<b>157.5</b>	0.61	0.64	0.62	0.52	0.49	0.50	0.49
<b>160.0</b>	0.79	0.90	0.57	0.72	0.73	0.70	0.62
<b>162.5</b>	0.92	0.75	0.99	0.87	0.70	0.79	0.65
<b>165.0</b>	0.99	0.90	0.89	0.86	1.04	1.00	0.73
<b>167.5</b>	1.05	0.99	1.11	0.85	0.98	1.20	0.97
<b>170.0</b>	0.67	0.72	0.96	0.80	0.93	0.86	0.84
<b>172.5</b>	1.18	1.06	0.89	0.96	0.76	1.01	1.15
<b>175.0</b>	0.88	1.11	1.00	0.71	1.15	0.91	0.82
<b>177.5</b>	1.51	0.61	0.90	0.62	0.62	1.27	0.98
<b>180.0</b>	0.58	0.58	0.58	0.58	0.58	0.58	0.58

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1054.37	N.A.	12.70
0-30	2229.87	N.A.	26.90
0-40	3643.21	N.A.	43.90
0-60	6380.3	N.A.	76.90
0-80	7911.51	N.A.	95.30
0-90	8156.3	N.A.	98.30
10-90	7881.87	N.A.	95.00
20-40	2588.84	N.A.	31.20
20-50	4040.82	N.A.	48.70
40-70	3698.96	N.A.	44.60
60-80	1531.21	N.A.	18.50
70-80	569.34	N.A.	6.90
80-90	244.78	N.A.	2.90
90-110	120.17	N.A.	1.40
90-120	135.34	N.A.	1.60
90-130	140.85	N.A.	1.70
90-150	142.36	N.A.	1.70
90-180	142.91	N.A.	1.70
110-180	22.73	N.A.	0.30
0-180	8299.2	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	274.42
10-20	779.95
20-30	1175.5
30-40	1413.34
40-50	1451.98
50-60	1285.11
60-70	961.87
70-80	569.34
80-90	244.78
90-100	85.83
100-110	34.35
110-120	15.16
120-130	5.52
130-140	1.34
140-150	0.17
150-160	0.21
160-170	0.25
170-180	0.09

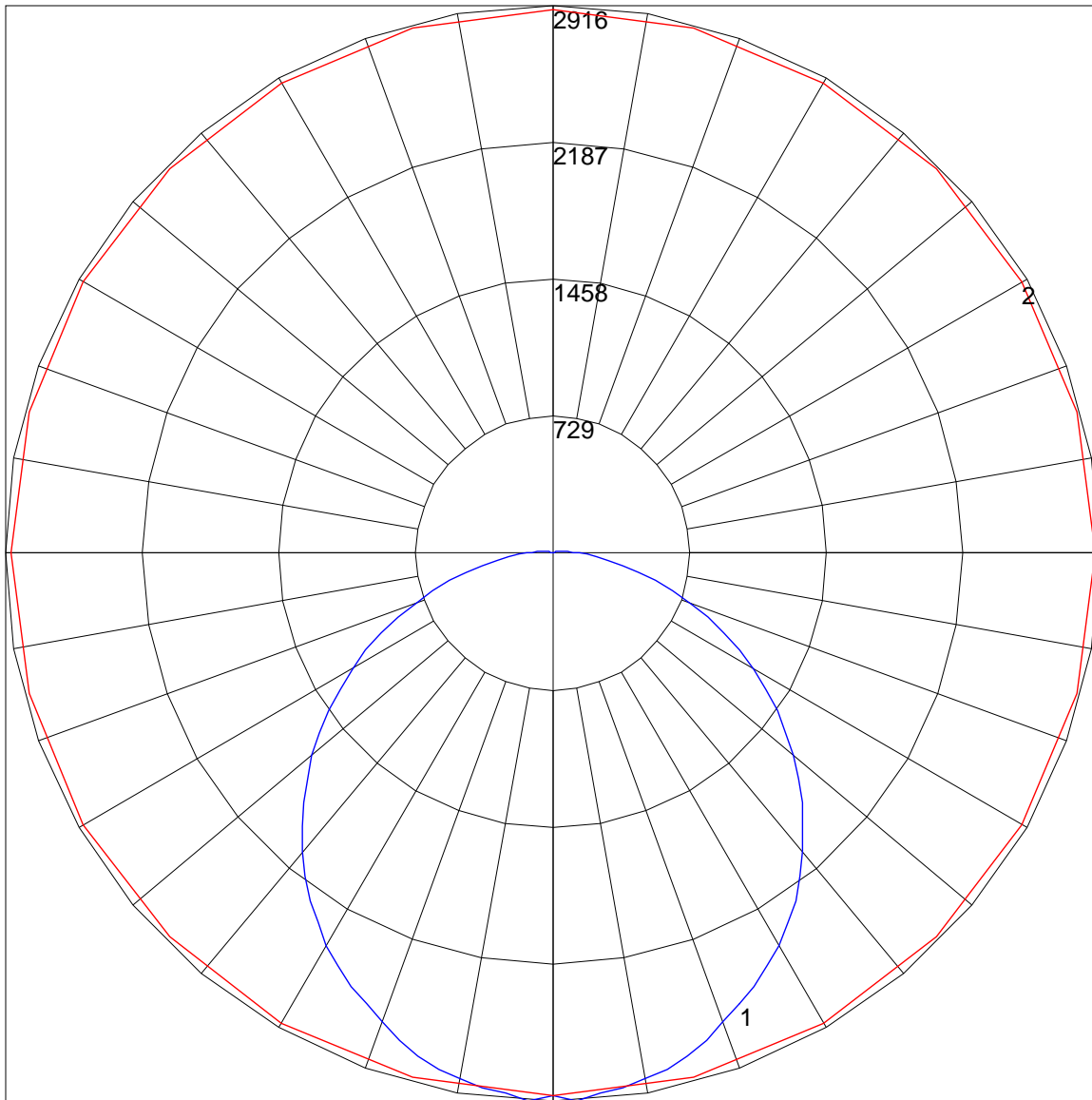
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	100	100	100	98
1	108	103	99	95	105	101	97	93	96	93	90	92	89	87	88	86	84	81
2	98	90	83	77	95	88	81	76	84	78	74	80	76	72	77	73	70	68
3	89	79	71	64	87	77	69	63	74	67	62	71	65	61	68	63	59	57
4	82	70	61	54	79	68	60	54	66	58	53	63	57	52	61	55	51	49
5	75	62	53	47	73	61	53	46	59	51	46	57	50	45	55	49	44	42
6	70	56	47	41	68	55	47	40	53	46	40	51	45	39	50	44	39	37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28	39	33	28	38	32	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24

POLAR GRAPH



Maximum Candela = 2915.86 Located At Horizontal Angle = 45, Vertical Angle = 2.5  
# 1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (0)