



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS100LEDPLUS2HTHOWT40120-277V-FL_S.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TESTLAB] Photopia 2017.0.4 see: www.ltioptics.com/ies
 [ISSUEDATE]
 [TESTDATE] Thu Jun 29 17:46:45 2017
 [MANUFAC] BEGHELLI
 [LUMINAIRE] BS100LEDPLUS2HTHOWT40120-277V-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: 88.9
 [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	8048
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	115
Total Luminaire Watts	70
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.26
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 : BS100LEDPLUS2HTHOWT40120-277V-FL_S.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	18530	14588	14601
55	15481	12216	12387
65	11412	9410	9826
75	7485	6324	6619
85	4588	3286	3380

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BS100LEDPLUS2HTHOWT40120-277V-FL_S.IES

CANDELA TABULATION

	0	15	30	45	60	75	90
0.0	2841.02	2841.02	2841.02	2841.02	2841.02	2841.02	2841.02
2.5	2839.06	2825.17	2807.86	2844.76	2822.41	2832.77	2791.74
5.0	2791.68	2796.34	2808.68	2810.30	2811.51	2821.57	2822.80
7.5	2772.77	2774.72	2796.43	2781.89	2790.72	2798.28	2787.47
10.0	2729.66	2741.35	2746.88	2761.57	2756.29	2751.65	2767.82
12.5	2723.94	2716.92	2714.86	2731.94	2727.58	2739.49	2727.66
15.0	2676.44	2679.24	2673.79	2684.52	2673.66	2681.24	2687.90
17.5	2623.00	2632.68	2628.22	2631.59	2636.91	2642.72	2648.41
20.0	2570.73	2572.94	2580.64	2584.43	2593.29	2589.10	2603.33
22.5	2511.30	2520.03	2518.69	2527.67	2543.26	2555.87	2550.51
25.0	2455.37	2455.58	2457.51	2466.14	2482.34	2502.64	2501.64
27.5	2381.84	2388.11	2386.49	2403.97	2427.48	2439.22	2460.68
30.0	2315.27	2318.24	2324.84	2334.22	2363.93	2378.43	2392.70
32.5	2235.15	2236.53	2251.42	2261.72	2286.34	2310.24	2322.32
35.0	2154.99	2156.22	2163.78	2186.82	2207.39	2240.82	2249.52
37.5	2068.01	2064.80	2077.90	2095.77	2121.16	2157.51	2186.69
40.0	1976.16	1973.88	1987.19	2014.97	2040.28	2078.81	2099.30
42.5	1861.76	1868.26	1893.69	1920.45	1944.96	1985.40	2004.05
45.0	1755.91	1766.31	1787.36	1822.28	1854.82	1889.92	1907.67
47.5	1637.66	1655.27	1682.14	1722.39	1761.49	1793.41	1826.27
50.0	1508.87	1533.25	1578.99	1625.18	1664.50	1691.13	1720.00
52.5	1383.81	1408.74	1462.07	1521.71	1556.14	1590.14	1613.02
55.0	1252.01	1283.46	1350.04	1414.79	1452.77	1478.64	1516.75
57.5	1118.86	1153.91	1235.62	1304.09	1349.54	1374.24	1398.41
60.0	991.64	1026.02	1119.36	1197.39	1239.05	1267.33	1295.46
62.5	861.84	900.86	999.54	1085.28	1129.78	1164.05	1192.19
65.0	736.39	782.73	883.72	970.98	1025.28	1057.21	1086.12
67.5	624.64	672.07	774.88	868.21	916.93	948.90	982.48
70.0	515.45	570.53	666.95	758.88	812.13	842.19	861.40
72.5	429.46	472.35	566.34	657.47	704.30	729.27	750.29
75.0	345.99	385.45	471.51	552.90	597.54	616.64	630.53
77.5	271.79	311.38	384.86	455.88	491.64	505.43	515.29
80.0	213.37	246.31	308.37	367.32	400.37	409.68	417.88
82.5	163.77	191.21	242.22	291.70	317.60	325.64	330.12
85.0	121.66	145.60	186.71	226.78	248.46	257.98	260.54
87.5	89.11	108.63	142.05	176.08	194.83	199.06	201.11
90.0	60.54	79.84	106.76	134.23	149.71	155.62	154.84
92.5	41.34	58.22	82.39	104.16	115.75	118.79	118.60
95.0	30.30	42.96	63.11	81.58	90.45	92.99	92.11
97.5	23.20	32.84	49.19	62.42	70.74	72.85	73.70
100.0	19.04	26.14	39.33	49.31	56.55	58.80	59.82
102.5	16.14	21.19	31.62	40.24	45.83	48.54	48.84
105.0	13.77	18.03	26.12	32.07	36.77	40.69	42.25
107.5	12.18	15.66	21.05	25.57	30.96	33.94	35.80
110.0	11.42	13.45	17.20	20.89	25.16	29.00	30.56
112.5	9.79	11.46	14.27	16.90	20.56	23.83	25.00
115.0	9.24	9.76	11.64	13.62	16.96	19.62	21.06
117.5	7.55	8.26	9.39	10.75	13.48	15.92	17.07
120.0	7.05	6.99	7.19	8.32	10.51	12.99	14.25
122.5	5.79	5.77	5.63	6.20	7.96	10.19	11.19
125.0	4.65	4.93	4.49	4.29	6.59	7.96	8.45
127.5	4.02	3.67	3.16	3.12	4.52	6.16	6.72
130.0	2.91	2.74	2.27	2.14	3.19	4.38	4.97
132.5	2.40	2.10	1.48	1.20	2.19	3.14	3.68

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BS100LEDPLUS2HTHOWT40120-277V-FL_S.IES

CANDELA TABULATION - (Cont.)

135.0	1.69	1.46	1.06	0.79	1.44	2.25	2.55
137.5	1.13	0.99	0.63	0.43	0.81	1.50	1.74
140.0	0.62	0.61	0.36	0.22	0.36	0.71	1.16
142.5	0.42	0.29	0.17	0.11	0.19	0.44	0.68
145.0	0.15	0.12	0.17	0.16	0.09	0.31	0.34
147.5	0.14	0.14	0.21	0.25	0.14	0.14	0.15
150.0	0.19	0.24	0.31	0.28	0.20	0.10	0.13
152.5	0.39	0.32	0.46	0.43	0.32	0.20	0.16
155.0	0.56	0.47	0.54	0.46	0.46	0.43	0.54
157.5	0.68	0.51	0.74	0.64	0.59	0.51	0.45
160.0	0.96	0.70	0.72	0.86	0.69	0.63	0.66
162.5	0.78	0.85	0.71	0.69	0.56	0.73	0.62
165.0	0.64	0.78	0.91	0.78	0.89	0.84	0.83
167.5	1.04	0.93	0.88	0.79	1.12	0.73	0.92
170.0	0.84	0.88	0.80	0.78	0.94	0.84	0.86
172.5	0.80	0.92	0.95	0.76	0.88	0.83	0.80
175.0	1.03	0.75	1.00	0.86	0.64	0.98	0.91
177.5	1.09	1.13	0.93	0.89	0.90	1.10	1.18
180.0	1.06	1.06	1.06	1.06	1.06	1.06	1.06

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BS100LEDPLUS2HTHOWT40120-277V-FL_S.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1022.75	N.A.	12.70
0-30	2163.08	N.A.	26.90
0-40	3534.08	N.A.	43.90
0-60	6187.75	N.A.	76.90
0-80	7671.68	N.A.	95.30
0-90	7909.09	N.A.	98.30
10-90	7642.65	N.A.	95.00
20-40	2511.33	N.A.	31.20
20-50	3919.31	N.A.	48.70
40-70	3585.11	N.A.	44.50
60-80	1483.93	N.A.	18.40
70-80	552.50	N.A.	6.90
80-90	237.40	N.A.	2.90
90-110	116.47	N.A.	1.40
90-120	131.14	N.A.	1.60
90-130	136.53	N.A.	1.70
90-150	137.97	N.A.	1.70
90-180	138.49	N.A.	1.70
110-180	22.03	N.A.	0.30
0-180	8047.58	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	266.43
10-20	756.32
20-30	1140.33
30-40	1371.00
40-50	1407.98
50-60	1245.69
60-70	931.43
70-80	552.50
80-90	237.40
90-100	83.28
100-110	33.19
110-120	14.67
120-130	5.39
130-140	1.28
140-150	0.16
150-160	0.21
160-170	0.23
170-180	0.08

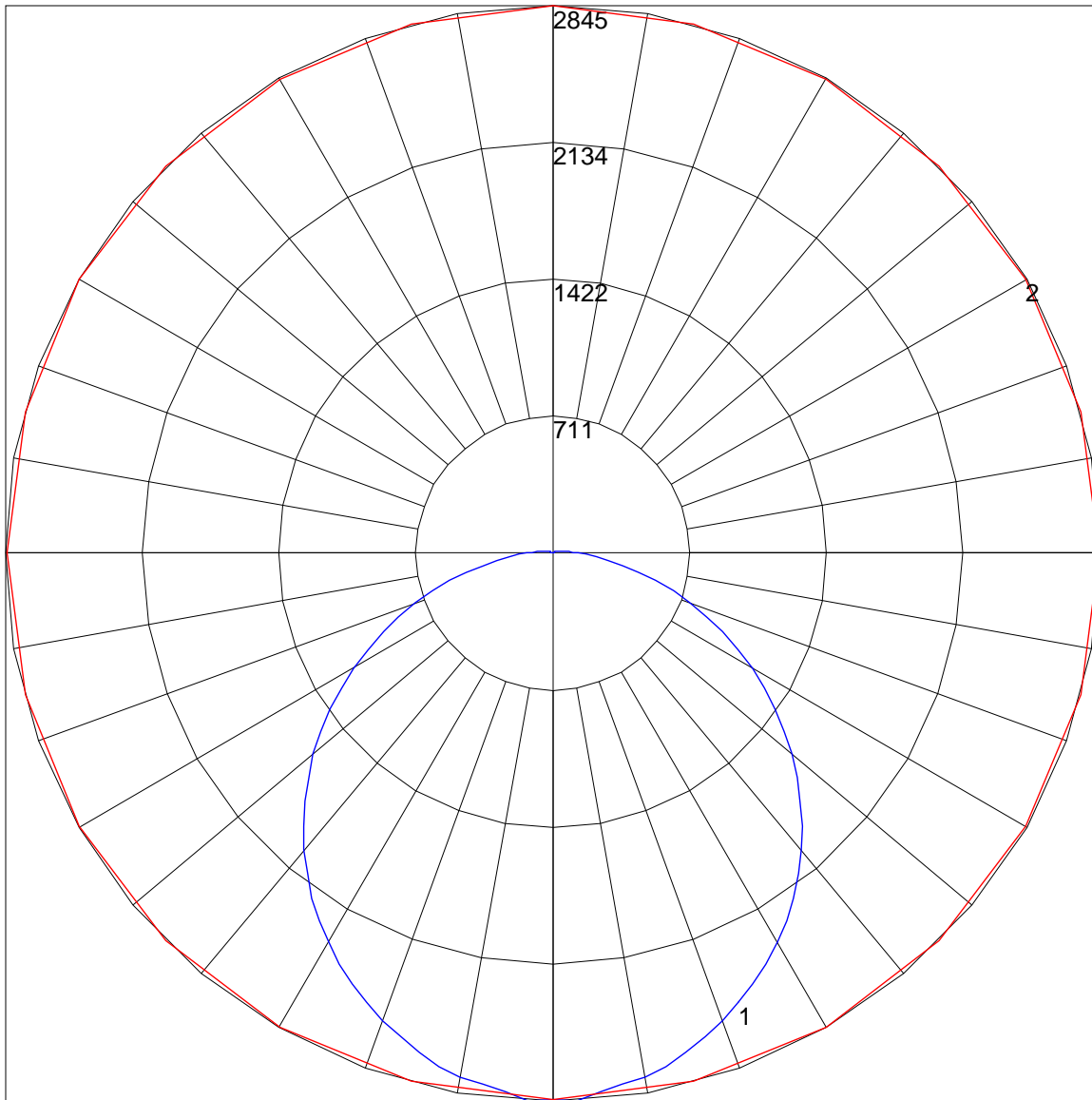
IES INDOOR REPORT
 PHOTOMETRIC FILENAME : BS100LEDPLUS2HTHOWT40120-277V-FL_S.IES

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	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	40	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 = 2844.76 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)