



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS100LEDPLUS2HTHOWT35120-277V-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 17:41:07 2017
 [MANUFAC] BEGHELLI
 [LUMINAIRE] BS100LEDPLUS2HTHOWT35120-277V-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: 83.4
 [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	7546
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	108
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 : BS100LEDPLUS2HTHOWT35120-277V-FL_S.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	17433	13684	13651
55	14531	11453	11563
65	10736	8844	9218
75	7036	5938	6179
85	4349	3077	3156

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BS100LEDPLUS2HTHOWT35120-277V-FL_S.IES

CANDELA TABULATION

	0	15	30	45	60	75	90
0.0	2644.61	2644.61	2644.61	2644.61	2644.61	2644.61	2644.61
2.5	2666.10	2636.00	2648.55	2659.99	2656.91	2648.16	2636.32
5.0	2624.99	2621.59	2626.35	2632.46	2636.02	2618.29	2608.57
7.5	2601.03	2601.49	2600.32	2621.98	2616.98	2607.46	2614.14
10.0	2584.76	2584.19	2575.52	2585.17	2584.85	2584.72	2594.34
12.5	2545.14	2541.16	2543.51	2563.21	2563.92	2557.19	2561.34
15.0	2511.06	2510.52	2506.12	2520.40	2518.06	2519.36	2514.54
17.5	2466.64	2459.54	2469.94	2478.17	2477.72	2475.71	2470.83
20.0	2407.02	2416.99	2414.52	2422.67	2424.02	2430.45	2436.33
22.5	2359.44	2361.69	2363.66	2367.29	2385.47	2391.19	2395.22
25.0	2296.76	2299.21	2300.24	2320.29	2336.02	2339.55	2349.27
27.5	2231.91	2238.43	2237.12	2259.19	2268.22	2287.72	2291.67
30.0	2172.01	2171.98	2168.55	2196.35	2209.39	2228.70	2253.34
32.5	2092.69	2095.15	2103.88	2121.40	2145.99	2164.41	2176.24
35.0	2032.27	2021.60	2029.23	2047.42	2064.52	2093.30	2117.71
37.5	1941.35	1938.02	1947.04	1970.61	1994.12	2030.38	2053.01
40.0	1853.34	1846.15	1862.53	1883.03	1909.34	1947.26	1974.17
42.5	1752.02	1753.03	1772.29	1796.87	1822.86	1864.44	1881.28
45.0	1651.96	1651.24	1677.94	1709.43	1739.63	1772.59	1783.47
47.5	1538.46	1553.47	1585.96	1618.59	1648.68	1680.98	1710.30
50.0	1420.89	1438.06	1480.01	1520.67	1561.75	1582.97	1613.07
52.5	1295.62	1323.14	1373.62	1428.39	1463.90	1489.20	1501.73
55.0	1175.20	1203.67	1268.05	1326.44	1365.35	1385.48	1415.86
57.5	1047.47	1082.81	1158.39	1224.36	1263.76	1287.00	1319.65
60.0	925.45	963.73	1051.24	1121.26	1162.80	1191.18	1217.08
62.5	806.25	849.08	938.17	1021.31	1062.68	1090.49	1122.70
65.0	692.77	732.92	831.51	912.55	961.77	993.13	1018.89
67.5	585.04	627.96	726.20	810.60	861.88	891.61	913.79
70.0	486.04	531.26	625.94	710.57	763.73	787.33	809.60
72.5	400.24	441.76	529.86	616.38	659.31	680.75	702.84
75.0	325.24	363.55	440.60	519.10	557.50	574.14	588.62
77.5	256.66	293.49	362.25	428.60	464.53	474.57	485.24
80.0	200.44	231.86	289.07	345.11	375.50	382.71	392.69
82.5	153.04	179.03	225.76	273.14	296.56	303.44	310.55
85.0	115.33	135.72	174.07	212.32	233.55	240.41	243.24
87.5	84.07	101.42	132.52	164.99	183.30	186.60	187.35
90.0	55.85	74.12	100.78	126.64	140.19	144.88	144.09
92.5	38.46	54.08	76.96	97.75	109.18	111.04	112.60
95.0	28.56	40.59	59.09	74.96	83.99	86.65	88.68
97.5	21.97	30.41	45.74	58.56	65.27	68.94	69.22
100.0	18.17	24.46	36.60	46.08	53.07	55.95	56.35
102.5	15.46	20.00	29.41	37.14	43.13	45.45	46.17
105.0	12.94	17.07	24.06	30.11	35.36	38.22	39.94
107.5	11.97	14.54	19.81	24.06	29.51	32.08	33.71
110.0	10.61	12.62	15.85	19.61	23.76	26.76	27.70
112.5	9.48	10.94	13.35	15.37	19.74	22.62	23.18
115.0	8.44	9.33	10.63	12.72	15.64	18.49	19.74
117.5	7.55	8.10	8.76	10.08	12.79	15.01	16.27
120.0	6.35	6.52	6.79	7.51	10.06	12.60	13.05
122.5	5.19	5.71	5.27	5.60	7.69	9.55	9.80
125.0	4.50	4.65	4.11	4.12	5.98	7.60	8.29
127.5	3.51	3.56	2.90	2.77	4.06	5.95	6.46
130.0	2.70	2.67	2.10	2.00	2.95	3.87	4.95
132.5	2.07	1.88	1.52	1.23	2.02	2.87	3.32

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BS100LEDPLUS2HTHOWT35120-277V-FL_S.IES

CANDELA TABULATION - (Cont.)

135.0	1.66	1.42	0.96	0.72	1.37	2.14	2.46
137.5	1.11	0.89	0.61	0.37	0.72	1.44	1.72
140.0	0.57	0.55	0.33	0.27	0.33	0.81	0.93
142.5	0.31	0.30	0.20	0.12	0.17	0.48	0.47
145.0	0.14	0.11	0.13	0.12	0.18	0.30	0.34
147.5	0.17	0.17	0.17	0.22	0.13	0.22	0.24
150.0	0.32	0.29	0.25	0.30	0.18	0.14	0.13
152.5	0.41	0.44	0.40	0.43	0.26	0.26	0.17
155.0	0.38	0.43	0.46	0.45	0.44	0.35	0.32
157.5	0.46	0.50	0.70	0.65	0.52	0.50	0.36
160.0	0.77	0.66	0.64	0.64	0.68	0.63	0.50
162.5	0.57	0.62	0.65	0.66	0.72	0.74	0.62
165.0	0.93	0.67	0.79	0.60	0.91	0.77	0.71
167.5	0.75	0.91	0.73	1.02	0.61	0.78	0.67
170.0	0.89	0.66	0.70	0.69	0.81	0.82	0.94
172.5	0.84	0.83	0.84	0.82	1.12	0.90	0.71
175.0	0.45	0.81	0.86	0.87	0.83	0.75	0.85
177.5	0.99	1.24	1.00	0.76	1.02	0.96	0.44
180.0	1.03	1.03	1.03	1.03	1.03	1.03	1.03

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BS100LEDPLUS2HTHOWT35120-277V-FL_S.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	958.86	N.A.	12.70
0-30	2027.64	N.A.	26.90
0-40	3313.04	N.A.	43.90
0-60	5801.68	N.A.	76.90
0-80	7193.53	N.A.	95.30
0-90	7415.71	N.A.	98.30
10-90	7166.19	N.A.	95.00
20-40	2354.17	N.A.	31.20
20-50	3674.45	N.A.	48.70
40-70	3362.64	N.A.	44.60
60-80	1391.84	N.A.	18.40
70-80	517.85	N.A.	6.90
80-90	222.18	N.A.	2.90
90-110	109.15	N.A.	1.40
90-120	122.92	N.A.	1.60
90-130	127.97	N.A.	1.70
90-150	129.34	N.A.	1.70
90-180	129.82	N.A.	1.70
110-180	20.67	N.A.	0.30
0-180	7545.53	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

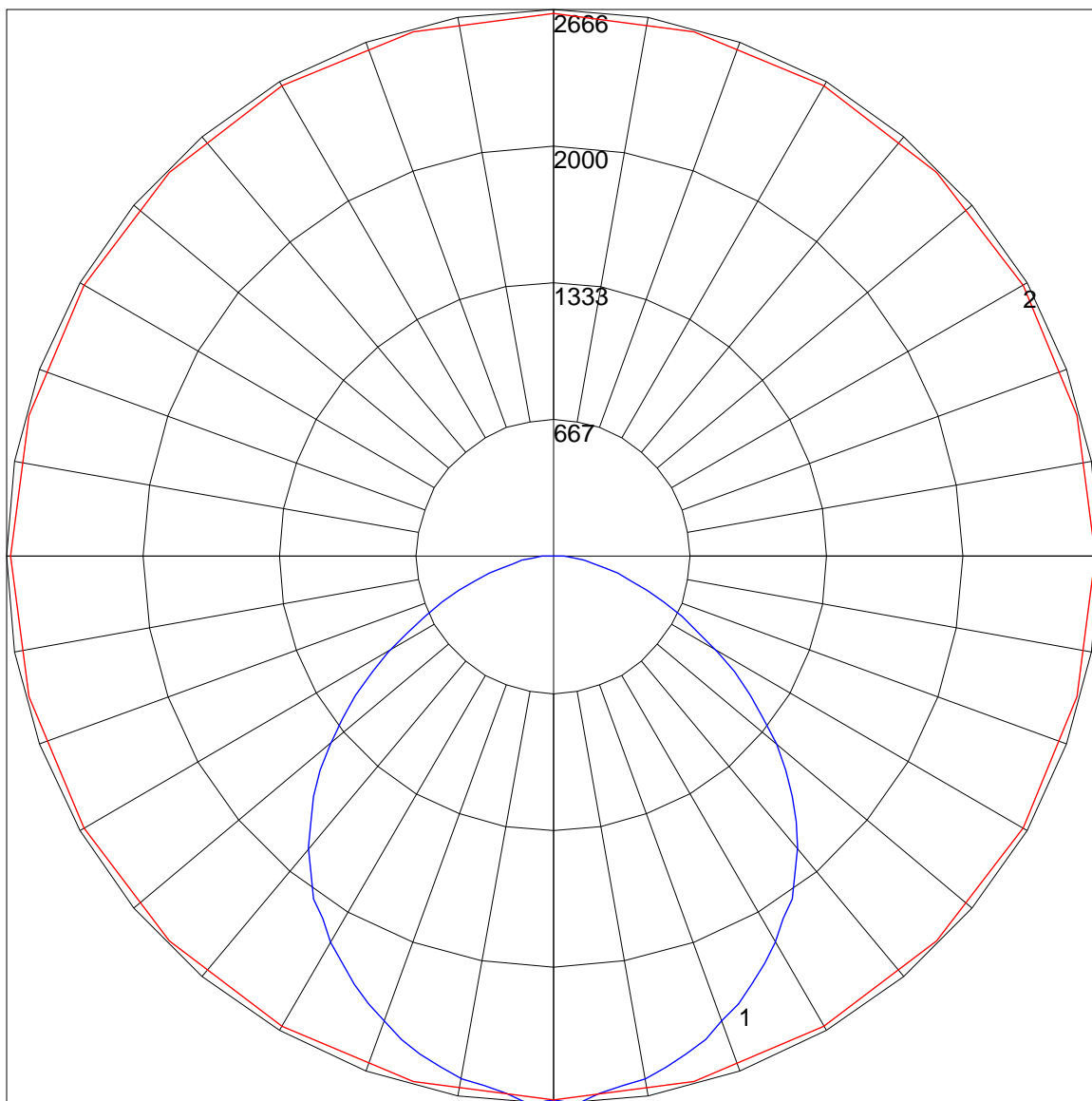
Zone	Lumens
0-10	249.52
10-20	709.34
20-30	1068.78
30-40	1285.4
40-50	1320.28
50-60	1168.37
60-70	874.00
70-80	517.85
80-90	222.18
90-100	77.96
100-110	31.19
110-120	13.77
120-130	5.05
130-140	1.20
140-150	0.16
150-160	0.20
160-170	0.20
170-180	0.08

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 = 2666.1 Located At Horizontal Angle = 0, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0)