



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS100LEDPLUS2HTLOWT40120-277V-FL_S.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

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

[ISSUEDATE]

[TESTDATE] Fri Jun 30 09:02:46 2017

[MANUFAC] BEGHELLI

[LUMINAIRE] BS100LEDPLUS2HTLOWT40120-277V-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: 65.1

[OTHER] Input watts: 50

[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	5886
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	118
Total Luminaire Watts	50
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
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 : BS100LEDPLUS2HTLOWT40120-277V-FL_S.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	13559	10688	10703
55	11294	8914	9052
65	8398	6904	7187
75	5457	4631	4831
85	3317	2403	2464

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CANDELA TABULATION

	0	15	30	45	60	75	90
0.0	2066.57	2066.57	2066.57	2066.57	2066.57	2066.57	2066.57
2.5	2045.86	2065.35	2058.72	2058.90	2060.98	2052.64	2065.68
5.0	2046.62	2051.18	2043.53	2054.27	2048.49	2045.45	2065.07
7.5	2041.61	2034.12	2031.47	2047.51	2027.64	2034.11	2042.06
10.0	2008.07	2007.49	2015.70	2012.13	2029.79	2015.71	2013.78
12.5	1982.95	1988.10	1991.77	1995.29	2003.82	1994.67	1991.59
15.0	1963.56	1957.34	1956.64	1964.42	1959.25	1959.65	1959.03
17.5	1922.63	1926.39	1927.26	1930.09	1927.66	1929.79	1929.35
20.0	1885.60	1877.15	1887.50	1897.48	1894.37	1901.86	1902.72
22.5	1838.58	1844.01	1840.19	1848.61	1861.69	1863.89	1867.75
25.0	1795.92	1798.06	1796.65	1799.38	1816.67	1827.68	1833.63
27.5	1736.69	1746.33	1749.79	1752.70	1769.50	1786.39	1790.30
30.0	1693.29	1693.50	1695.27	1711.09	1729.42	1737.68	1767.16
32.5	1627.16	1637.61	1642.52	1661.11	1673.62	1688.24	1700.24
35.0	1582.12	1575.31	1581.25	1597.06	1613.99	1639.27	1644.11
37.5	1507.05	1510.49	1520.35	1536.53	1551.34	1583.13	1597.18
40.0	1443.69	1438.77	1452.97	1469.74	1489.96	1518.45	1540.38
42.5	1364.85	1366.91	1380.47	1401.76	1428.94	1452.52	1461.41
45.0	1284.80	1293.62	1309.13	1335.09	1356.00	1382.37	1398.34
47.5	1198.32	1210.97	1231.14	1260.06	1286.47	1312.90	1333.70
50.0	1105.53	1117.93	1151.90	1185.57	1216.03	1232.23	1259.42
52.5	1010.69	1033.30	1069.68	1111.75	1143.31	1159.65	1178.44
55.0	913.39	937.35	988.17	1032.31	1062.91	1080.36	1108.46
57.5	818.86	846.12	902.51	954.87	984.84	1003.88	1027.47
60.0	723.31	751.09	818.21	875.08	906.52	928.00	945.80
62.5	627.61	661.46	733.22	792.87	828.80	852.63	876.38
65.0	541.90	572.98	649.37	712.40	751.14	775.52	794.41
67.5	457.59	490.26	566.01	634.25	672.99	695.32	715.89
70.0	380.43	415.58	488.86	555.57	594.63	613.15	630.49
72.5	313.38	344.45	412.50	480.32	518.23	531.60	548.56
75.0	252.26	282.71	345.37	404.84	436.70	448.11	460.20
77.5	199.73	227.20	281.79	332.67	361.03	367.90	377.25
80.0	156.31	180.62	224.89	270.33	291.99	298.31	305.79
82.5	119.88	139.91	175.88	211.28	231.31	237.86	242.65
85.0	87.97	106.04	135.61	165.80	182.45	188.81	189.94
87.5	66.17	79.54	103.14	128.89	142.02	145.81	148.01
90.0	44.51	57.97	79.16	99.37	109.93	113.29	113.01
92.5	30.12	41.82	59.65	75.64	84.65	87.45	87.56
95.0	21.85	31.24	46.11	58.56	66.03	67.71	67.73
97.5	16.71	24.27	35.80	45.76	51.64	53.51	53.55
100.0	14.11	19.13	28.52	36.62	41.30	43.10	43.83
102.5	11.80	15.99	23.16	28.98	33.83	35.55	36.37
105.0	10.52	13.22	18.78	23.52	27.14	30.36	31.10
107.5	9.16	11.26	15.66	18.87	22.72	25.21	26.18
110.0	8.42	9.74	13.04	15.37	18.42	21.37	22.07
112.5	7.31	8.20	10.50	12.39	15.26	17.55	18.40
115.0	6.33	7.51	8.53	9.76	12.34	14.27	15.39
117.5	5.65	6.28	6.45	7.64	9.87	11.95	12.42
120.0	4.87	5.27	5.25	6.12	7.69	9.38	10.44
122.5	4.05	4.25	3.98	4.50	5.97	7.45	7.89
125.0	3.20	3.46	3.05	3.13	4.57	5.75	6.22
127.5	2.61	2.81	2.29	2.42	3.36	4.61	4.99
130.0	2.24	1.97	1.59	1.50	2.34	3.05	3.70
132.5	1.61	1.49	1.15	0.97	1.69	2.37	2.65

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CANDELA TABULATION - (Cont.)

135.0	1.26	1.13	0.74	0.56	1.05	1.68	2.03
137.5	0.82	0.79	0.52	0.35	0.54	0.89	1.39
140.0	0.55	0.49	0.25	0.17	0.29	0.58	0.81
142.5	0.22	0.20	0.14	0.08	0.16	0.28	0.41
145.0	0.11	0.12	0.12	0.09	0.13	0.23	0.26
147.5	0.10	0.15	0.13	0.13	0.11	0.14	0.15
150.0	0.15	0.16	0.22	0.22	0.19	0.10	0.12
152.5	0.25	0.37	0.32	0.25	0.27	0.15	0.15
155.0	0.35	0.39	0.32	0.45	0.35	0.30	0.28
157.5	0.49	0.44	0.50	0.50	0.45	0.32	0.40
160.0	0.57	0.56	0.65	0.58	0.58	0.50	0.45
162.5	0.53	0.61	0.63	0.59	0.50	0.56	0.48
165.0	0.39	0.57	0.76	0.57	0.56	0.67	0.47
167.5	0.66	0.68	0.71	0.72	0.67	0.69	0.66
170.0	0.60	0.57	0.73	0.69	0.56	0.50	0.45
172.5	0.96	0.52	0.61	0.67	0.65	0.95	0.81
175.0	0.57	0.64	0.50	0.94	0.98	0.71	0.67
177.5	0.71	0.88	0.60	0.67	0.88	0.73	0.89
180.0	0.61	0.61	0.61	0.61	0.61	0.61	0.61

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	748.02	N.A.	12.70
0-30	1581.81	N.A.	26.90
0-40	2584.54	N.A.	43.90
0-60	4524.88	N.A.	76.90
0-80	5610.73	N.A.	95.30
0-90	5784.15	N.A.	98.30
10-90	5589.54	N.A.	95.00
20-40	1836.52	N.A.	31.20
20-50	2866.11	N.A.	48.70
40-70	2622.35	N.A.	44.60
60-80	1085.85	N.A.	18.40
70-80	403.84	N.A.	6.90
80-90	173.43	N.A.	2.90
90-110	85.24	N.A.	1.40
90-120	95.99	N.A.	1.60
90-130	99.90	N.A.	1.70
90-150	100.97	N.A.	1.70
90-180	101.36	N.A.	1.70
110-180	16.12	N.A.	0.30
0-180	5885.52	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	194.61
10-20	553.40
20-30	833.79
30-40	1002.73
40-50	1029.58
50-60	910.76
60-70	682.01
70-80	403.84
80-90	173.43
90-100	60.84
100-110	24.41
110-120	10.75
120-130	3.91
130-140	0.95
140-150	0.12
150-160	0.16
160-170	0.17
170-180	0.07

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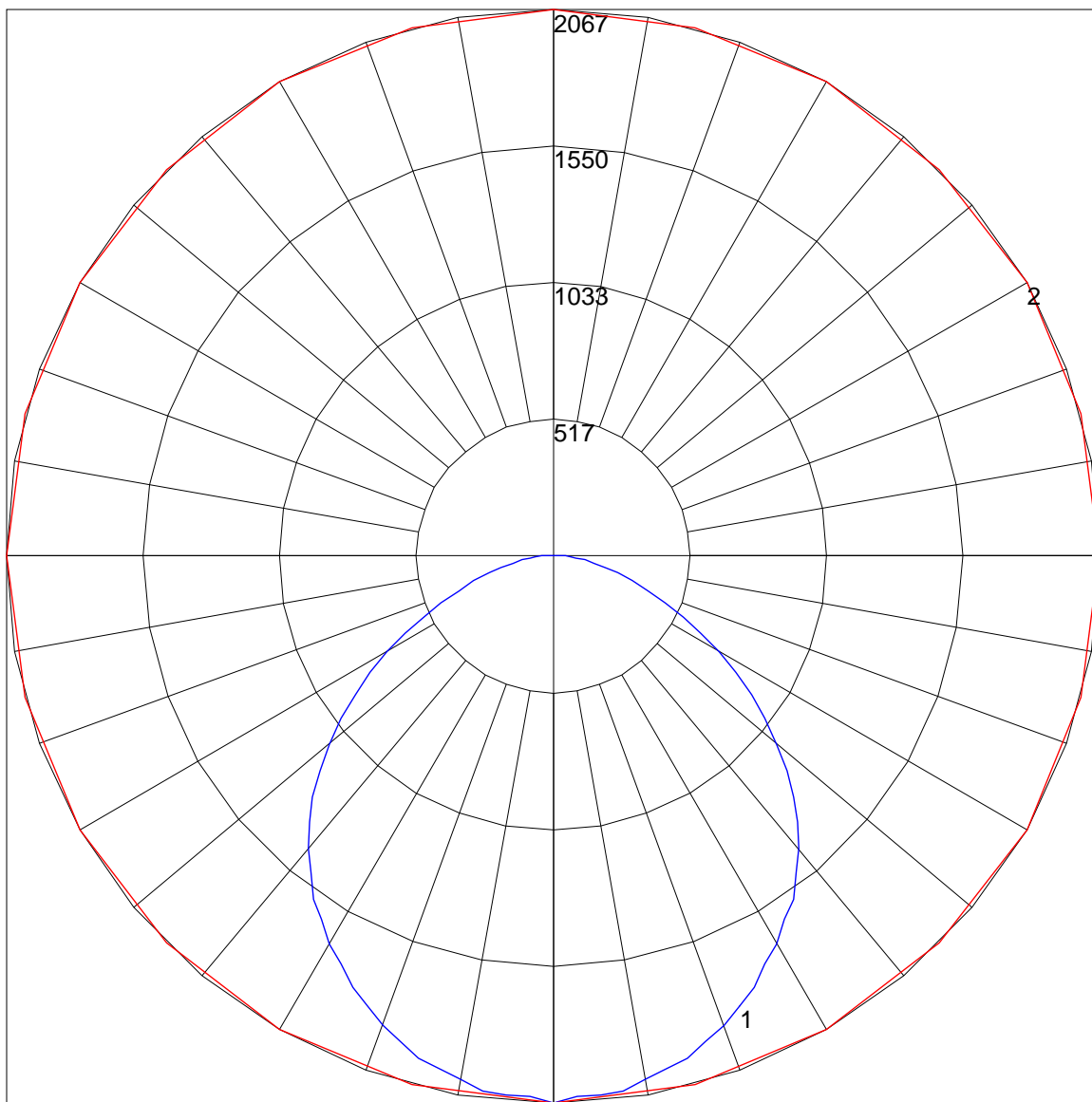
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 2066.57 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)