



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS101LED4HTLOWT50120-277V_S.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TESTLAB] Photopia 2020.1.0 see: www.ltioptics.com/ies
 [ISSUEDATE]
 [TESTDATE] Tue Apr 13 16:21:40 2021
 [TEST] 1
 [MANUFAC] BEGHELLI
 [LUMCAT]
 [LUMINAIRE] BS101LED4HTLOWT50120-277V_S
 [LAMP] LED 0.915W DURIS S5 (150mA)
 [LAMPCAT] GW PSLRS1.PC-LRLT-5L7N-1
 [OTHER]

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6909
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	173
Total Luminaire Watts	40
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.12 ft
Luminous Width (90-270)	0.39 ft
Luminous Height	0.26 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	13848	9446	8421
55	12306	7462	7016
65	9961	5852	6129
75	6433	4381	4206
85	3505	2478	2140

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CANDELA TABULATION

	0	15	30	45	60	75	90	105	120	135
0	2397.360	2397.360	2397.360	2397.360	2397.360	2397.360	2397.360	2397.360	2397.360	2397.360
5	2300.096	2375.280	2403.080	2394.336	2395.688	2407.544	2439.800	2437.280	2458.024	2446.192
10	2299.776	2317.752	2366.256	2328.144	2359.224	2354.552	2338.672	2365.592	2344.400	2340.832
15	2266.568	2246.224	2219.112	2314.736	2351.464	2327.912	2356.440	2305.896	2319.768	2266.784
20	2147.600	2172.128	2167.536	2228.656	2241.696	2262.408	2249.616	2276.040	2247.408	2206.720
25	2089.432	2108.536	2102.648	2117.696	2150.576	2144.024	2177.648	2180.512	2176.056	2116.976
30	1932.432	1997.072	2010.384	2038.768	2039.208	2007.368	2002.040	2026.504	2026.280	2041.416
35	1852.464	1858.272	1894.728	1894.088	1877.216	1838.688	1848.128	1856.216	1865.504	1919.464
40	1708.224	1741.552	1735.520	1710.424	1685.088	1666.288	1656.912	1667.952	1696.072	1734.712
45	1566.896	1555.136	1579.512	1519.776	1480.744	1500.184	1488.472	1483.472	1501.624	1523.736
50	1383.496	1386.760	1362.552	1318.000	1299.448	1318.272	1319.032	1316.248	1296.648	1333.280
55	1158.112	1179.584	1139.976	1114.936	1124.488	1150.824	1177.248	1177.056	1139.560	1115.112
60	928.248	937.944	903.488	927.744	998.880	1042.640	1081.592	1050.232	1008.176	931.384
65	719.272	700.280	700.632	780.648	855.448	907.848	942.152	933.928	865.488	781.504
70	503.232	485.584	539.440	637.408	705.792	764.128	788.520	752.400	719.464	649.624
75	309.520	321.280	400.632	496.560	551.808	570.816	567.776	573.592	562.288	509.384
80	175.600	185.120	282.152	354.432	385.016	390.584	384.408	379.400	388.184	362.944
85	79.064	104.736	172.664	222.632	239.984	237.392	240.000	233.024	244.888	225.640
90	31.632	50.016	98.480	135.568	141.936	144.064	145.760	147.576	146.080	136.160
95	12.568	26.496	58.096	84.432	98.960	100.984	101.552	105.936	101.424	86.088
100	5.808	14.688	35.576	60.440	74.888	78.888	84.400	78.544	72.192	59.440
105	5.352	6.896	23.008	42.600	58.472	64.432	71.296	68.424	58.792	42.896
110	4.840	5.296	14.128	35.008	45.208	57.320	63.480	57.176	47.376	35.280
115	3.840	4.464	11.624	25.088	41.544	48.736	55.648	49.096	39.136	25.272
120	2.784	2.488	6.736	17.992	32.760	39.392	45.448	40.280	31.272	18.936
125	1.984	1.872	3.688	11.688	22.552	31.496	34.696	29.528	24.632	11.592
130	0.600	1.440	1.832	7.144	14.264	22.328	22.560	20.664	13.536	7.240
135	0.784	0.632	0.448	2.760	7.704	12.488	14.048	14.048	8.216	3.104
140	0.640	0.272	0.160	0.608	4.200	6.256	7.568	5.560	3.400	0.872
145	0.000	0.104	0.000	0.056	0.784	2.656	3.864	2.280	1.056	0.064
150	0.000	0.000	0.000	0.064	0.056	0.200	0.600	0.440	0.216	0.000
155	0.000	0.000	0.000	0.088	0.096	0.000	0.000	0.008	0.008	0.000
160	0.000	0.000	0.000	0.008	0.000	0.000	0.000	0.000	0.000	0.000
165	0.000	0.000	0.000	0.000	0.000	0.000	0.144	0.000	0.000	0.120
170	0.000	0.000	0.000	0.200	0.000	0.000	0.000	0.000	0.000	0.000
175	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Angles Horizontal Angles

	150	165	180
0	2397.360	2397.360	2397.360
5	2445.936	2417.184	2351.816
10	2330.400	2332.616	2266.624
15	2228.480	2265.160	2159.128
20	2163.096	2186.608	2118.432
25	2116.792	2095.128	2043.032
30	2020.808	1971.112	1964.272
35	1897.552	1873.208	1831.384
40	1741.848	1736.128	1716.160
45	1574.528	1556.904	1543.912
50	1377.936	1392.808	1355.840
55	1147.624	1173.024	1151.176
60	922.664	939.096	946.584

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CANDELA TABULATION - (Cont.)

65	697.104	700.120	715.672
70	541.016	483.488	512.472
75	397.472	321.568	314.112
80	282.064	191.168	169.104
85	175.664	104.984	78.440
90	95.952	48.744	33.536
95	59.384	24.912	12.712
100	35.480	13.448	8.320
105	22.144	7.552	4.488
110	16.096	5.824	4.600
115	10.376	4.536	4.040
120	5.584	2.224	2.568
125	3.760	2.184	2.456
130	1.936	1.000	1.600
135	0.552	0.704	0.624
140	0.456	0.472	0.336
145	0.000	0.064	0.000
150	0.000	0.064	0.000
155	0.000	0.072	0.000
160	0.000	0.000	0.000
165	0.000	0.000	0.000
170	0.000	0.000	0.000
175	0.000	0.000	0.000
180	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	872.20	N.A.	12.60
0-30	1851.39	N.A.	26.80
0-40	3020.32	N.A.	43.70
0-60	5230.7	N.A.	75.70
0-80	6518.47	N.A.	94.40
0-90	6737.41	N.A.	97.50
10-90	6509.97	N.A.	94.20
20-40	2148.13	N.A.	31.10
20-50	3326.29	N.A.	48.10
40-70	3003.18	N.A.	43.50
60-80	1287.77	N.A.	18.60
70-80	494.97	N.A.	7.20
80-90	218.94	N.A.	3.20
90-110	126.17	N.A.	1.80
90-120	152.53	N.A.	2.20
90-130	166.07	N.A.	2.40
90-150	171.32	N.A.	2.50
90-180	171.34	N.A.	2.50
110-180	45.17	N.A.	0.70
0-180	6908.75	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	227.44
10-20	644.75
20-30	979.20
30-40	1168.93
40-50	1178.17
50-60	1032.21
60-70	792.80
70-80	494.97
80-90	218.94
90-100	83.25
100-110	42.92
110-120	26.36
120-130	13.54
130-140	4.52
140-150	0.73
150-160	0.02
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	118	118	118	118	115	115	115	115	110	110	110	105	105	105	100	100	100	98
1	108	103	98	94	105	100	96	92	95	92	89	91	88	86	87	85	83	81
2	98	89	82	77	95	87	81	75	83	78	73	80	75	71	76	73	69	67
3	89	78	70	64	86	77	69	63	73	67	61	70	65	60	67	63	59	56
4	82	70	61	54	79	68	60	53	65	58	52	63	56	51	60	55	50	48
5	75	62	53	46	73	61	52	46	58	51	45	56	50	45	54	48	44	42
6	69	56	47	41	67	55	46	40	53	45	40	51	44	39	49	43	39	37
7	64	51	42	36	62	50	42	36	48	41	35	46	40	35	45	39	34	32
8	60	46	38	32	58	46	37	32	44	37	31	43	36	31	41	35	31	29
9	56	43	34	29	54	42	34	29	41	33	28	39	33	28	38	32	28	26
10	53	39	31	26	51	39	31	26	38	31	26	36	30	26	35	30	25	24

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UGR TABLE - CORRECTED

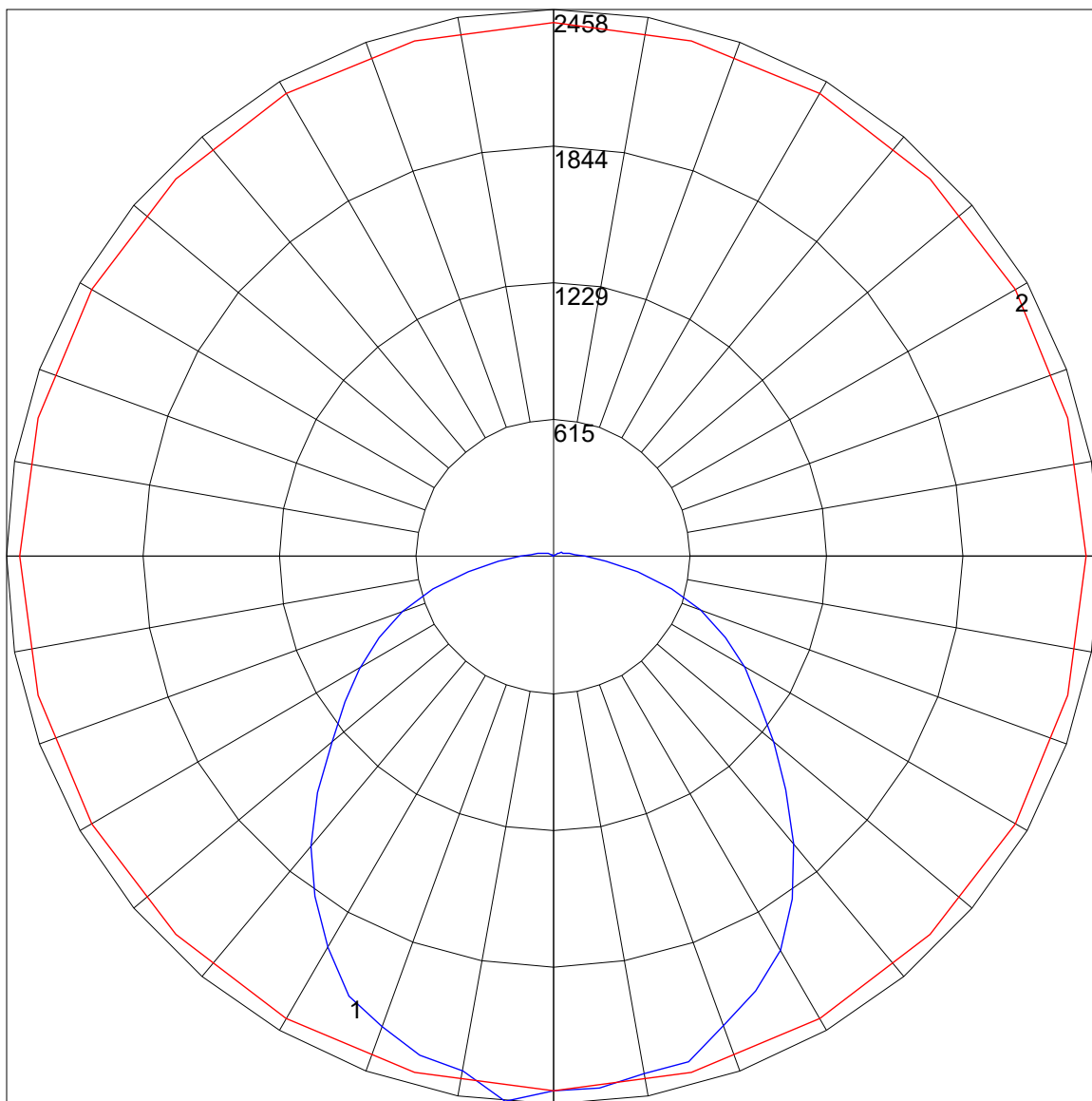
Reflectances

Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	19.4	21.0	19.8	21.4	21.8	19.8	21.4	20.2	21.7	22.1
	3H	20.8	22.2	21.2	22.6	23.0	22.1	23.5	22.5	23.9	24.3
	4H	21.2	22.5	21.6	22.9	23.4	23.0	24.3	23.4	24.7	25.1
	6H	21.4	22.7	21.9	23.1	23.6	23.6	24.9	24.1	25.3	25.8
	8H	21.5	22.7	22.0	23.2	23.6	23.9	25.1	24.4	25.6	26.0
	12H	21.6	22.7	22.0	23.2	23.6	24.1	25.3	24.6	25.7	26.2
4H	2H	19.8	21.2	20.3	21.6	22.0	20.1	21.5	20.6	21.9	22.3
	3H	21.3	22.5	21.8	22.9	23.4	22.6	23.8	23.0	24.2	24.6
	4H	21.8	22.9	22.3	23.4	23.8	23.6	24.7	24.1	25.1	25.6
	6H	22.2	23.1	22.7	23.6	24.1	24.4	25.4	24.9	25.8	26.3
	8H	22.3	23.2	22.8	23.7	24.2	24.8	25.6	25.2	26.1	26.6
	12H	22.4	23.2	22.9	23.7	24.2	25.1	25.9	25.6	26.4	26.9
8H	4H	22.1	23.0	22.6	23.5	24.0	23.7	24.6	24.2	25.1	25.6
	6H	22.6	23.3	23.1	23.8	24.4	24.7	25.4	25.2	25.9	26.5
	8H	22.8	23.4	23.3	24.0	24.5	25.1	25.7	25.6	26.3	26.8
	12H	22.9	23.5	23.4	24.0	24.6	25.5	26.1	26.0	26.6	27.2
12H	4H	22.2	22.9	22.7	23.5	24.0	23.8	24.5	24.3	25.0	25.6
	6H	22.7	23.3	23.2	23.8	24.4	24.7	25.4	25.3	25.9	26.4
	8H	22.9	23.5	23.4	24.0	24.6	25.1	25.7	25.7	26.3	26.9

Maximum UGR = 27.2

POLAR GRAPH



Maximum Candela = 2458.024 Located At Horizontal Angle = 120, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (120 - 300) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0)