



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS101LED4HTHOWT40120-277V_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 16:52:59 2021

[TEST] 1

[MANUFAC] BEGHELLI

[LUMCAT]

[LUMINAIRE] BS101LED4HTHOWT40120-277V_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	9782
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	163
Total Luminaire Watts	60
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)	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	19609	13470	11865
55	17233	10564	9863
65	14039	8366	8750
75	9367	6238	5993
85	5315	3594	3075

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CANDELA TABULATION

	<u>0</u>	<u>15</u>	<u>30</u>	<u>45</u>	<u>60</u>	<u>75</u>	<u>90</u>	<u>105</u>	<u>120</u>	<u>135</u>
0	3404.998	3404.998	3404.998	3404.998	3404.998	3404.998	3404.998	3404.998	3404.998	3404.998
5	3305.072	3362.457	3321.406	3411.897	3350.022	3443.357	3427.769	3416.748	3372.166	3338.469
10	3242.571	3268.804	3346.448	3295.542	3335.461	3385.518	3393.549	3368.824	3370.804	3299.433
15	3094.396	3241.500	3166.684	3188.966	3300.298	3338.315	3354.024	3298.927	3254.672	3228.045
20	2987.151	3046.678	3063.792	3144.856	3159.759	3200.355	3204.717	3178.330	3188.751	3136.286
25	2899.205	2939.116	2980.672	3008.481	3033.617	3094.036	3089.811	3091.490	3046.232	3011.464
30	2761.391	2782.199	2845.060	2850.348	2862.397	2868.036	2884.079	2867.788	2903.550	2853.347
35	2573.888	2639.397	2671.749	2690.783	2656.717	2615.521	2635.421	2638.283	2673.874	2711.102
40	2406.970	2423.030	2459.393	2448.286	2397.355	2350.622	2361.429	2372.065	2408.941	2416.920
45	2218.842	2225.595	2224.755	2167.387	2099.436	2099.521	2097.122	2109.086	2105.392	2143.743
50	1942.562	1947.918	1936.546	1872.982	1862.090	1842.447	1850.332	1867.386	1847.135	1856.905
55	1621.795	1658.389	1609.943	1578.517	1604.527	1651.730	1654.884	1666.771	1602.230	1565.259
60	1331.187	1322.745	1293.556	1325.102	1413.373	1469.721	1505.946	1480.022	1405.351	1340.545
65	1013.737	988.669	1002.853	1116.123	1241.553	1314.544	1345.156	1311.390	1200.751	1117.537
70	706.862	692.473	760.270	919.081	1026.763	1077.635	1101.331	1075.518	1033.636	913.185
75	450.722	442.186	565.080	707.068	776.356	805.837	809.068	819.815	785.098	728.510
80	250.193	270.503	400.030	519.111	551.814	556.270	552.268	547.452	545.463	505.501
85	119.903	147.267	253.475	322.858	340.426	341.540	344.934	327.991	332.353	320.081
90	42.473	69.760	136.649	194.110	201.832	213.230	211.670	207.497	209.365	188.463
95	14.946	36.123	77.978	117.075	137.077	143.907	152.375	150.052	140.248	122.448
100	9.427	18.863	52.097	83.369	100.526	109.559	118.934	116.012	103.834	79.135
105	7.430	12.444	32.446	59.930	81.269	99.412	100.149	98.058	81.132	59.270
110	7.576	7.053	22.753	45.627	66.109	83.540	88.254	84.389	70.017	44.213
115	6.265	5.142	14.320	33.406	54.848	72.871	78.561	69.203	55.499	37.031
120	3.574	4.182	9.710	23.276	41.282	61.755	60.641	59.244	43.347	26.130
125	2.391	2.202	5.759	17.011	32.892	42.970	47.786	42.104	30.244	16.626
130	1.508	1.851	1.783	8.896	20.028	32.078	34.083	30.141	19.960	9.556
135	0.677	0.951	0.891	4.156	13.044	20.979	19.557	18.648	10.978	4.191
140	0.171	0.386	0.257	1.791	6.359	12.118	11.672	8.056	6.599	0.977
145	0.000	0.000	0.086	0.180	1.448	4.439	4.285	4.011	1.577	0.000
150	0.000	0.000	0.000	0.094	0.000	0.497	0.728	0.788	0.094	0.094
155	0.000	0.000	0.000	0.000	0.103	0.077	0.000	0.000	0.009	0.086
160	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.154	0.000	0.000
165	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.017	0.000	0.000
170	0.000	0.000	0.000	0.000	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**

	<u>150</u>	<u>165</u>	<u>180</u>
0	3404.998	3404.998	3404.998
5	3341.863	3347.185	3372.963
10	3354.075	3296.725	3256.968
15	3208.282	3164.464	3099.966
20	3062.738	3060.321	3042.444
25	2966.428	2914.468	2891.527
30	2878.149	2804.610	2771.169
35	2679.025	2585.166	2598.381
40	2466.463	2452.417	2415.060
45	2206.912	2246.326	2216.982
50	1927.402	1982.747	1945.004
55	1617.845	1673.267	1658.449
60	1301.397	1344.933	1293.590

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CANDELA TABULATION - (Cont.)

65	1002.810	993.820	1037.510
70	776.288	688.094	724.602
75	573.573	449.616	444.894
80	381.554	268.592	246.242
85	249.618	148.090	118.643
90	138.123	69.451	42.319
95	86.934	33.877	19.608
100	51.514	18.923	11.081
105	30.809	11.450	8.184
110	20.491	8.253	6.590
115	12.315	5.305	5.219
120	9.436	2.820	4.576
125	5.142	2.725	4.559
130	2.665	2.485	2.665
135	0.763	1.663	1.166
140	0.249	0.240	0.471
145	0.000	0.060	0.000
150	0.154	0.000	0.000
155	0.009	0.000	0.000
160	0.000	0.094	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	1234.41	N.A.	12.60
0-30	2617.81	N.A.	26.80
0-40	4271.75	N.A.	43.70
0-60	7398.68	N.A.	75.60
0-80	9228.41	N.A.	94.30
0-90	9540.09	N.A.	97.50
10-90	9219.28	N.A.	94.20
20-40	3037.34	N.A.	31.00
20-50	4704.33	N.A.	48.10
40-70	4253.96	N.A.	43.50
60-80	1829.73	N.A.	18.70
70-80	702.70	N.A.	7.20
80-90	311.68	N.A.	3.20
90-110	178.64	N.A.	1.80
90-120	215.58	N.A.	2.20
90-130	234.55	N.A.	2.40
90-150	242.35	N.A.	2.50
90-180	242.38	N.A.	2.50
110-180	63.74	N.A.	0.70
0-180	9782.48	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	320.82
10-20	913.60
20-30	1383.4
30-40	1653.94
40-50	1666.99
50-60	1459.93
60-70	1127.03
70-80	702.70
80-90	311.68
90-100	117.75
100-110	60.89
110-120	36.94
120-130	18.97
130-140	6.67
140-150	1.13
150-160	0.03
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	76	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	36
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	52	39	31	26	51	39	31	26	37	31	26	36	30	26	35	29	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

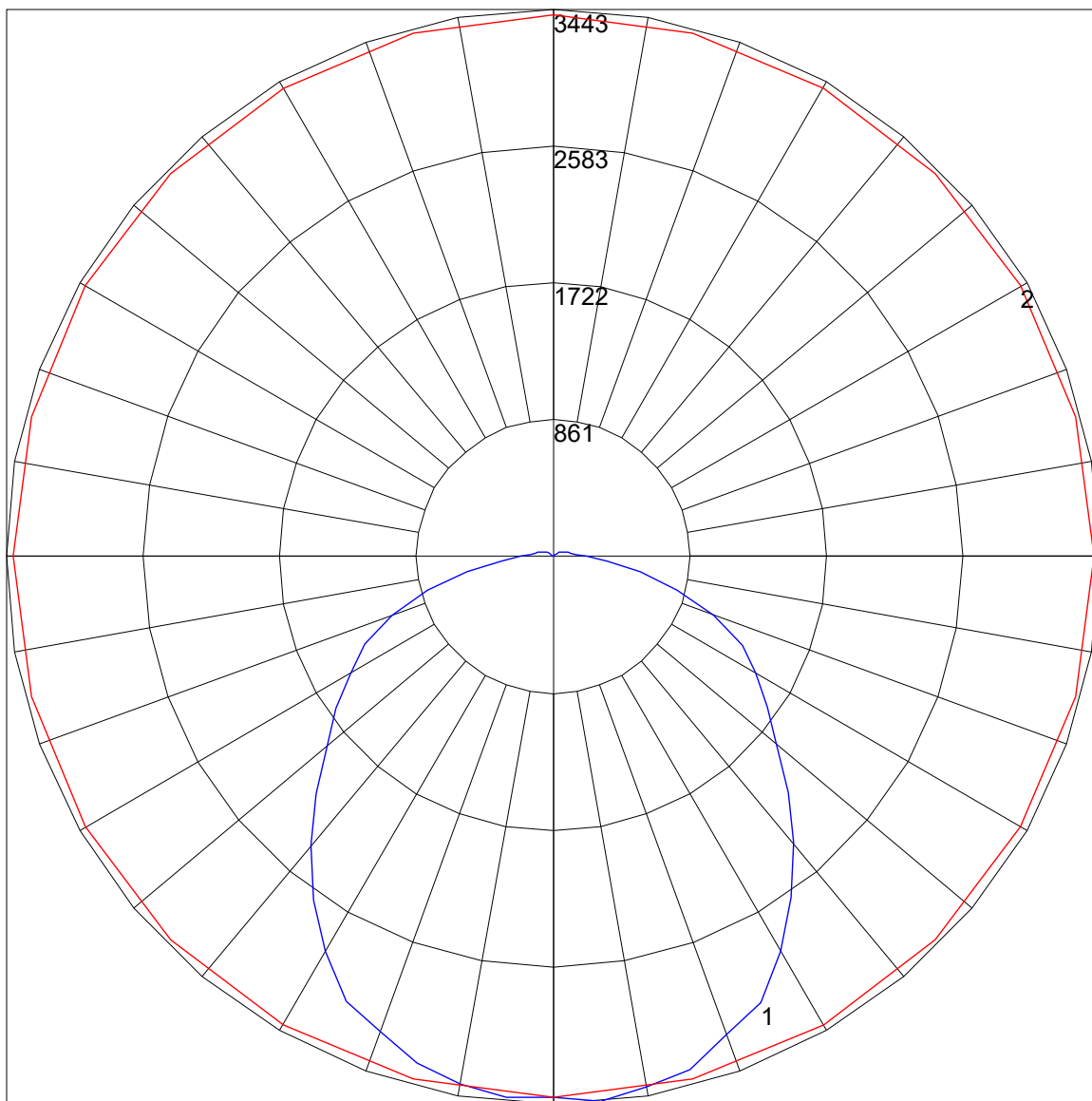
X=2H	Y=2H	20.6	22.2	21.0	22.6	22.9	21.0	22.6	21.4	22.9	23.3
	3H	21.9	23.4	22.3	23.8	24.2	23.3	24.7	23.7	25.1	25.5
	4H	22.4	23.7	22.8	24.1	24.5	24.2	25.5	24.6	25.9	26.3
	6H	22.6	23.9	23.1	24.3	24.8	24.9	26.1	25.3	26.5	27.0
	8H	22.7	23.9	23.2	24.4	24.8	25.1	26.4	25.6	26.8	27.2
	12H	22.8	23.9	23.2	24.4	24.8	25.4	26.5	25.8	27.0	27.4

UGR Viewed Endwise

4H	2H	21.0	22.4	21.5	22.8	23.2	21.3	22.7	21.8	23.1	23.5
	3H	22.5	23.7	23.0	24.1	24.6	23.8	25.0	24.3	25.4	25.9
	4H	23.0	24.1	23.5	24.5	25.0	24.8	25.9	25.3	26.3	26.8
	6H	23.4	24.3	23.9	24.8	25.3	25.7	26.6	26.1	27.1	27.6
	8H	23.5	24.4	24.0	24.9	25.4	26.0	26.9	26.5	27.3	27.9
	12H	23.6	24.4	24.1	24.9	25.4	26.3	27.1	26.8	27.6	28.1
8H	4H	23.3	24.2	23.8	24.7	25.2	25.0	25.8	25.4	26.3	26.8
	6H	23.8	24.5	24.3	25.1	25.6	25.9	26.6	26.4	27.2	27.7
	8H	24.0	24.6	24.5	25.2	25.7	26.3	27.0	26.9	27.5	28.0
	12H	24.1	24.7	24.6	25.2	25.8	26.7	27.3	27.2	27.8	28.4
12H	4H	23.3	24.1	23.9	24.7	25.2	25.0	25.7	25.5	26.3	26.8
	6H	23.9	24.5	24.4	25.0	25.6	25.9	26.6	26.5	27.1	27.7
	8H	24.1	24.7	24.6	25.2	25.8	26.4	27.0	26.9	27.5	28.1

Maximum UGR = 28.4

POLAR GRAPH



Maximum Candela = 3443.357 Located At Horizontal Angle = 75, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (75 - 255) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0)