



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS101LED4HTHOWT30120-277V_S.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TESTLAB] Photopia 2020.1.0 see: www.ltioptics.com/ies
 [ISSUE DATE]
 [TEST DATE] Tue Apr 13 16:33:49 2021
 [TEST] 1
 [MANUFACTURER] BEGHELLI
 [LUMEN CATEGORY]
 [LUMINAIRE] BS101LED4HTHOWT30120-277V_S
 [LAMP] LED 0.915W DURIS S5 (150mA)
 [LAMP CATEGORY] GW PSLRS1.PC-LRLT-5L7N-1
 [OTHER]

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	8679
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	145
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	17281	11713	10635
55	15601	9254	8874
65	12634	7316	7756
75	8275	5592	5526
85	4543	3273	2686

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CANDELA TABULATION

	0	15	30	45	60	75	90	105	120	135
0	2992.721	2992.721	2992.721	2992.721	2992.721	2992.721	2992.721	2992.721	2992.721	2992.721
5	2983.226	2892.906	2957.250	3003.476	2996.586	2995.875	3019.691	3081.515	3022.836	3039.736
10	2873.470	2900.748	2901.562	2935.216	2924.015	2936.031	3005.045	2978.375	2938.259	2941.164
15	2793.563	2806.632	2846.183	2866.374	2894.706	2946.794	2941.035	2935.465	2910.046	2852.944
20	2679.582	2760.114	2762.591	2836.456	2853.484	2866.202	2867.565	2834.776	2799.648	2763.148
25	2578.516	2610.765	2653.932	2681.339	2703.141	2716.784	2741.817	2740.120	2713.785	2623.131
30	2427.984	2496.115	2511.216	2532.375	2544.416	2557.537	2513.547	2572.080	2578.816	2557.888
35	2290.452	2329.497	2369.331	2388.613	2363.829	2351.548	2369.494	2341.075	2344.272	2372.167
40	2135.755	2183.019	2178.528	2152.244	2123.912	2101.458	2133.047	2129.559	2142.920	2152.253
45	1955.391	1969.377	1951.835	1884.603	1891.296	1881.483	1879.684	1866.529	1873.239	1905.154
50	1700.519	1754.150	1718.251	1639.784	1620.407	1655.733	1668.108	1649.888	1613.825	1659.332
55	1468.204	1466.284	1423.828	1382.769	1413.784	1473.097	1489.003	1446.693	1413.022	1384.801
60	1198.429	1181.563	1128.943	1164.534	1236.600	1316.429	1364.498	1318.383	1241.236	1158.116
65	912.285	880.413	886.275	975.960	1085.716	1159.315	1192.276	1158.561	1085.313	985.996
70	619.928	604.579	666.789	807.431	895.505	959.720	985.807	967.553	900.947	817.389
75	398.162	404.118	507.738	633.777	698.549	724.396	745.984	710.941	694.350	635.740
80	212.253	236.198	357.300	449.831	478.017	478.189	491.584	484.145	482.234	448.125
85	102.497	131.661	223.531	293.960	305.263	293.951	301.295	297.353	296.891	292.280
90	40.133	57.865	125.191	169.489	178.684	184.735	185.763	188.060	185.592	166.627
95	16.026	29.678	73.299	106.388	127.804	132.458	129.501	128.499	121.180	107.202
100	6.496	16.926	46.004	71.440	91.750	100.826	106.945	103.414	87.757	73.548
105	6.342	10.575	28.735	54.437	73.068	82.529	87.500	85.246	74.336	50.417
110	5.905	7.096	18.297	38.976	59.124	75.227	77.524	72.442	62.390	39.885
115	5.151	3.814	12.881	29.155	52.157	64.395	69.708	64.429	48.686	30.912
120	4.019	3.471	7.799	22.685	40.159	51.566	56.665	51.951	39.413	22.093
125	2.922	3.051	4.705	14.166	27.750	38.017	43.587	40.176	29.369	14.021
130	1.791	1.645	1.697	8.210	19.668	26.704	33.552	27.475	18.948	8.441
135	0.848	0.694	0.223	4.311	11.355	16.909	19.900	17.886	10.524	3.137
140	0.274	0.086	0.000	0.943	4.079	8.433	10.215	9.204	3.754	1.243
145	0.009	0.077	0.000	0.077	1.003	3.411	4.422	3.617	1.046	0.154
150	0.000	0.163	0.000	0.000	0.103	0.351	0.608	0.343	0.094	0.000
155	0.000	0.000	0.000	0.094	0.000	0.180	0.094	0.000	0.000	0.094
160	0.000	0.000	0.129	0.000	0.000	0.000	0.000	0.009	0.000	0.000
165	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.009	0.000
170	0.000	0.000	0.000	0.000	0.000	0.249	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	2992.721	2992.721	2992.721
5	3025.853	2980.715	2985.711
10	2953.556	2942.064	2870.453
15	2829.480	2809.983	2825.615
20	2717.333	2752.804	2675.151
25	2672.409	2669.409	2592.219
30	2502.860	2505.662	2493.424
35	2376.624	2360.598	2304.713
40	2188.264	2165.545	2117.381
45	1967.312	1970.543	1967.663
50	1686.293	1744.363	1721.156
55	1426.494	1484.101	1456.763
60	1128.326	1177.672	1194.778

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CANDELA TABULATION - (Cont.)

65	886.918	884.295	908.591
70	689.174	607.930	626.656
75	492.072	394.434	394.340
80	345.165	239.309	216.118
85	222.683	131.215	100.209
90	129.210	64.241	39.516
95	75.373	30.852	17.509
100	40.870	16.283	7.739
105	27.390	9.281	6.359
110	22.745	6.230	4.851
115	12.624	4.431	4.688
120	8.579	4.105	4.105
125	3.856	2.434	3.008
130	1.757	1.500	2.982
135	0.831	0.428	1.500
140	0.480	0.934	0.146
145	0.077	0.000	0.171
150	0.000	0.000	0.000
155	0.000	0.000	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	1095.02	N.A.	12.60
0-30	2326.95	N.A.	26.80
0-40	3797.4	N.A.	43.80
0-60	6567.71	N.A.	75.70
0-80	8187.49	N.A.	94.30
0-90	8463.68	N.A.	97.50
10-90	8179.7	N.A.	94.20
20-40	2702.38	N.A.	31.10
20-50	4181.19	N.A.	48.20
40-70	3767.45	N.A.	43.40
60-80	1619.77	N.A.	18.70
70-80	622.64	N.A.	7.20
80-90	276.20	N.A.	3.20
90-110	158.13	N.A.	1.80
90-120	191.17	N.A.	2.20
90-130	208.32	N.A.	2.40
90-150	215.25	N.A.	2.50
90-180	215.28	N.A.	2.50
110-180	57.15	N.A.	0.70
0-180	8678.96	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	283.98
10-20	811.04
20-30	1231.92
30-40	1470.45
40-50	1478.81
50-60	1291.5
60-70	997.13
70-80	622.64
80-90	276.20
90-100	104.55
100-110	53.58
110-120	33.04
120-130	17.15
130-140	5.99
140-150	0.94
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	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

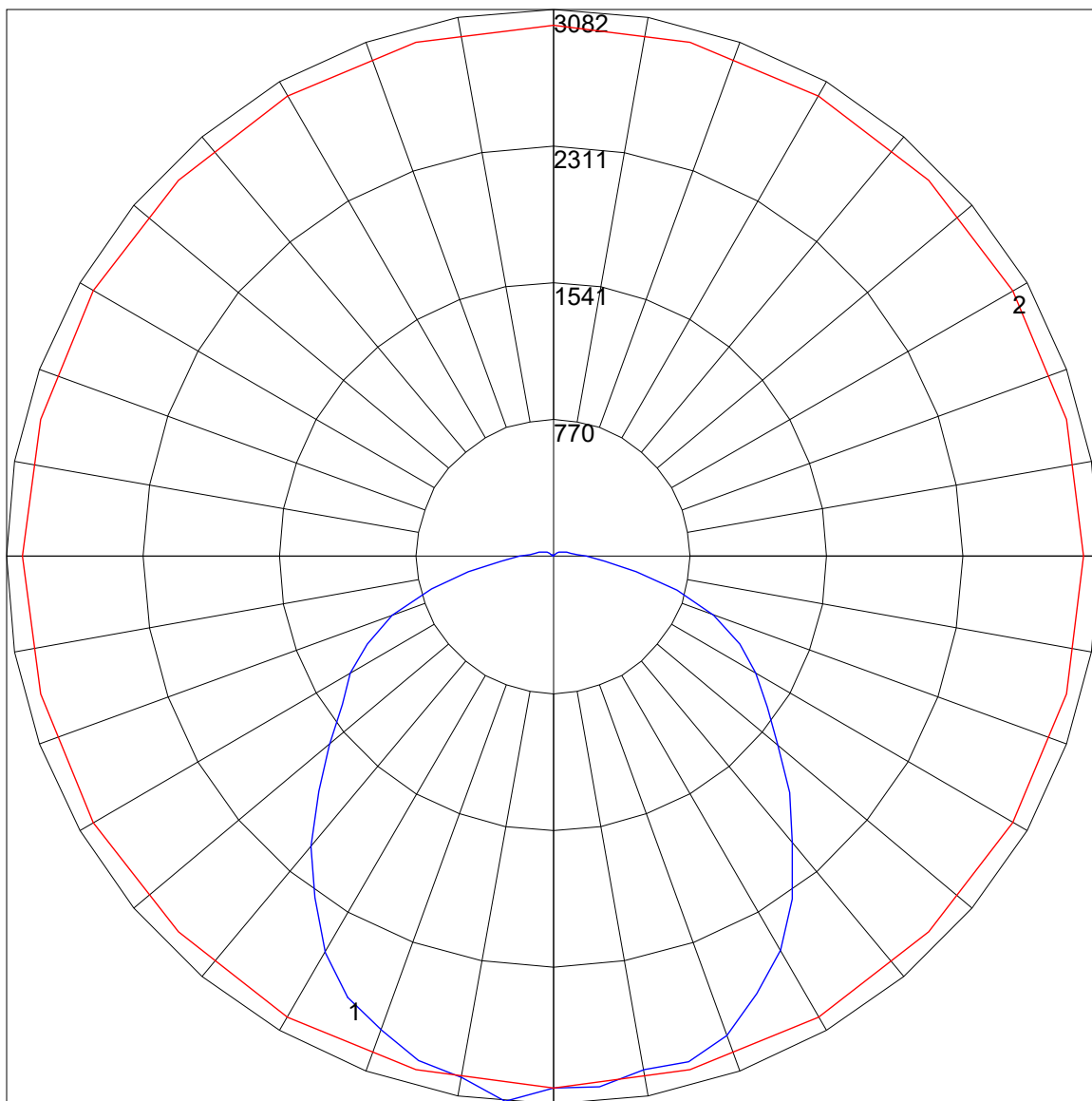
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UGR TABLE - CORRECTED

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	20.2	21.8	20.6	22.2	22.5	20.6	22.2	21.0	22.5	22.9
	3H	21.5	23.0	21.9	23.3	23.8	22.9	24.3	23.3	24.7	25.1
	4H	22.0	23.3	22.4	23.7	24.1	23.8	25.2	24.2	25.6	26.0
	6H	22.2	23.5	22.7	23.9	24.3	24.5	25.8	24.9	26.2	26.6
	8H	22.3	23.5	22.7	23.9	24.4	24.8	26.0	25.2	26.4	26.9
	12H	22.3	23.5	22.8	23.9	24.4	25.0	26.2	25.5	26.6	27.1
4H	2H	20.6	22.0	21.0	22.4	22.8	20.9	22.3	21.3	22.7	23.1
	3H	22.1	23.2	22.5	23.7	24.1	23.4	24.6	23.9	25.0	25.5
	4H	22.6	23.7	23.1	24.1	24.6	24.4	25.5	24.9	25.9	26.4
	6H	23.0	23.9	23.5	24.4	24.9	25.3	26.2	25.8	26.7	27.2
	8H	23.1	24.0	23.6	24.4	24.9	25.6	26.5	26.1	26.9	27.5
	12H	23.2	24.0	23.7	24.5	25.0	25.9	26.7	26.4	27.2	27.7
8H	4H	22.9	23.8	23.4	24.3	24.8	24.6	25.4	25.1	25.9	26.4
	6H	23.4	24.1	23.9	24.6	25.2	25.5	26.2	26.0	26.8	27.3
	8H	23.6	24.2	24.1	24.7	25.3	25.9	26.6	26.5	27.1	27.6
	12H	23.7	24.3	24.2	24.8	25.4	26.3	26.9	26.8	27.4	28.0
12H	4H	23.0	23.7	23.5	24.2	24.8	24.6	25.4	25.1	25.9	26.4
	6H	23.5	24.1	24.0	24.6	25.2	25.5	26.2	26.1	26.7	27.3
	8H	23.7	24.3	24.2	24.8	25.4	26.0	26.6	26.5	27.1	27.7

Maximum UGR = 28.0

POLAR GRAPH



Maximum Candela = 3081.515 Located At Horizontal Angle = 105, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (105 - 285) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0)