



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS101LED4HTHOWT50120-277V\_S.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TESTLAB] Photopia 2020.1.0 see: [www.ltioptics.com/ies](http://www.ltioptics.com/ies)  
 [ISSUEDATE]  
 [TESTDATE] Wed Apr 14 15:24:44 2021  
 [TEST] 1  
 [MANUFAC] BEGHELLI  
 [LUMCAT]  
 [LUMINAIRE] BS101LED4HTHOWT50120-277V\_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	10351
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	173
Total Luminaire Watts	60
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)	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	20537	14100	12787
55	18549	11157	10561
65	15064	8792	9120
75	9911	6712	6380
85	5661	3755	3137

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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>
<b>0</b>	3543.584	3543.584	3543.584	3543.584	3543.584	3543.584	3543.584	3543.584	3543.584	3543.584
<b>5</b>	3524.661	3576.921	3544.012	3572.662	3557.724	3594.009	3566.363	3555.282	3623.473	3581.540
<b>10</b>	3511.609	3448.371	3520.093	3534.936	3554.356	3643.270	3552.025	3637.819	3636.242	3557.536
<b>15</b>	3317.396	3294.574	3413.859	3460.840	3437.581	3506.724	3536.025	3486.704	3486.396	3424.332
<b>20</b>	3133.552	3236.169	3301.867	3333.079	3334.724	3395.931	3378.423	3365.525	3384.781	3326.094
<b>25</b>	3064.786	3119.343	3175.682	3197.278	3224.437	3241.097	3276.277	3214.170	3220.280	3160.865
<b>30</b>	2878.757	2940.761	3043.473	3080.418	3072.165	3004.196	3061.555	3022.939	3047.663	3022.965
<b>35</b>	2784.239	2759.146	2840.715	2826.343	2815.442	2818.407	2760.783	2781.256	2805.501	2849.885
<b>40</b>	2510.727	2585.518	2632.378	2612.539	2534.612	2525.725	2507.068	2518.569	2549.986	2590.137
<b>45</b>	2323.815	2350.143	2366.040	2268.702	2263.483	2248.665	2260.072	2207.118	2236.967	2268.445
<b>50</b>	2067.624	2097.722	2042.668	1965.615	1933.778	1976.122	1962.487	1955.537	1915.164	1963.558
<b>55</b>	1745.649	1769.362	1692.438	1667.139	1700.494	1730.703	1772.087	1726.221	1675.349	1675.684
<b>60</b>	1409.097	1424.617	1373.797	1396.636	1492.834	1557.152	1609.215	1552.807	1468.864	1402.960
<b>65</b>	1087.747	1060.486	1060.469	1172.976	1301.372	1357.617	1401.941	1380.001	1285.380	1171.442
<b>70</b>	762.593	723.462	812.187	974.906	1097.303	1147.052	1163.917	1134.574	1083.102	964.502
<b>75</b>	476.861	478.189	604.048	760.690	842.380	863.710	861.225	839.354	833.784	756.645
<b>80</b>	257.700	291.491	415.705	538.599	583.488	575.416	560.821	568.285	565.200	531.289
<b>85</b>	127.710	161.330	262.705	337.255	351.396	355.826	351.841	347.899	353.684	342.509
<b>90</b>	42.841	71.277	149.855	206.049	220.498	220.078	223.634	212.579	214.987	203.306
<b>95</b>	19.651	38.754	87.380	123.836	147.901	152.666	156.368	157.405	150.044	127.924
<b>100</b>	12.135	22.591	53.974	84.355	112.027	118.712	122.337	120.289	109.019	88.897
<b>105</b>	7.567	12.118	33.414	62.124	88.537	99.181	105.351	103.311	89.702	63.718
<b>110</b>	8.244	7.764	24.313	47.212	73.651	85.846	93.893	88.322	71.799	48.103
<b>115</b>	7.593	6.942	14.869	35.951	60.110	78.081	80.764	75.365	59.776	37.794
<b>120</b>	5.528	3.874	10.927	27.064	46.115	61.087	63.324	64.155	47.109	27.878
<b>125</b>	3.531	2.391	6.162	16.412	31.049	47.349	49.997	46.192	33.226	17.620
<b>130</b>	2.305	1.928	2.288	8.510	22.873	30.406	35.608	31.186	21.005	9.273
<b>135</b>	0.780	1.714	0.591	3.848	11.964	21.314	23.319	18.760	12.392	5.065
<b>140</b>	0.831	0.180	0.129	1.620	6.685	9.367	13.129	10.593	4.773	0.848
<b>145</b>	0.000	0.086	0.000	0.171	1.680	4.448	5.176	3.728	1.371	0.266
<b>150</b>	0.000	0.000	0.094	0.000	0.009	0.403	0.900	0.334	0.283	0.000
<b>155</b>	0.000	0.000	0.000	0.000	0.129	0.000	0.103	0.000	0.129	0.000
<b>160</b>	0.000	0.000	0.000	0.000	0.163	0.163	0.171	0.000	0.000	0.000
<b>165</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.180	0.000	0.000	0.000
<b>170</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.317	0.000	0.000	0.000
<b>175</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>180</b>	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>
<b>0</b>	3543.584	3543.584	3543.584
<b>5</b>	3582.791	3577.632	3563.320
<b>10</b>	3534.105	3499.834	3471.878
<b>15</b>	3402.384	3399.505	3314.987
<b>20</b>	3307.189	3229.116	3191.725
<b>25</b>	3164.352	3093.950	3097.806
<b>30</b>	3029.092	2988.642	2929.166
<b>35</b>	2833.910	2776.714	2756.146
<b>40</b>	2630.544	2590.291	2558.128
<b>45</b>	2360.324	2314.097	2313.343
<b>50</b>	2053.792	2082.090	2046.499
<b>55</b>	1714.608	1753.782	1744.929
<b>60</b>	1365.115	1397.356	1407.828

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CANDELA TABULATION - (Cont.)

65	1055.395	1037.458	1076.101
70	792.956	726.702	734.063
75	597.458	480.366	469.499
80	412.397	293.445	250.921
85	274.283	161.690	117.640
90	150.978	73.196	50.486
95	86.883	35.651	21.451
100	51.994	21.391	11.167
105	34.486	13.275	6.847
110	22.770	8.759	7.824
115	14.698	6.427	7.062
120	9.676	4.139	5.176
125	4.319	2.108	3.334
130	2.640	2.100	3.428
135	1.217	1.046	0.788
140	0.326	0.720	0.180
145	0.000	0.051	0.394
150	0.111	0.069	0.000
155	0.000	0.000	0.000
160	0.137	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	1309.8	N.A.	12.70
0-30	2775.34	N.A.	26.80
0-40	4528.66	N.A.	43.80
0-60	7836.51	N.A.	75.70
0-80	9766.25	N.A.	94.40
0-90	10093.94	N.A.	97.50
10-90	9754.02	N.A.	94.20
20-40	3218.87	N.A.	31.10
20-50	4984.69	N.A.	48.20
40-70	4495.43	N.A.	43.40
60-80	1929.75	N.A.	18.60
70-80	742.17	N.A.	7.20
80-90	327.68	N.A.	3.20
90-110	189.18	N.A.	1.80
90-120	228.71	N.A.	2.20
90-130	248.67	N.A.	2.40
90-150	256.75	N.A.	2.50
90-180	256.79	N.A.	2.50
110-180	67.61	N.A.	0.70
0-180	10350.73	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	339.92
10-20	969.87
20-30	1465.55
30-40	1753.32
40-50	1765.82
50-60	1542.02
60-70	1187.58
70-80	742.17
80-90	327.68
90-100	124.68
100-110	64.50
110-120	39.53
120-130	19.96
130-140	6.92
140-150	1.16
150-160	0.04
160-170	0.01
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

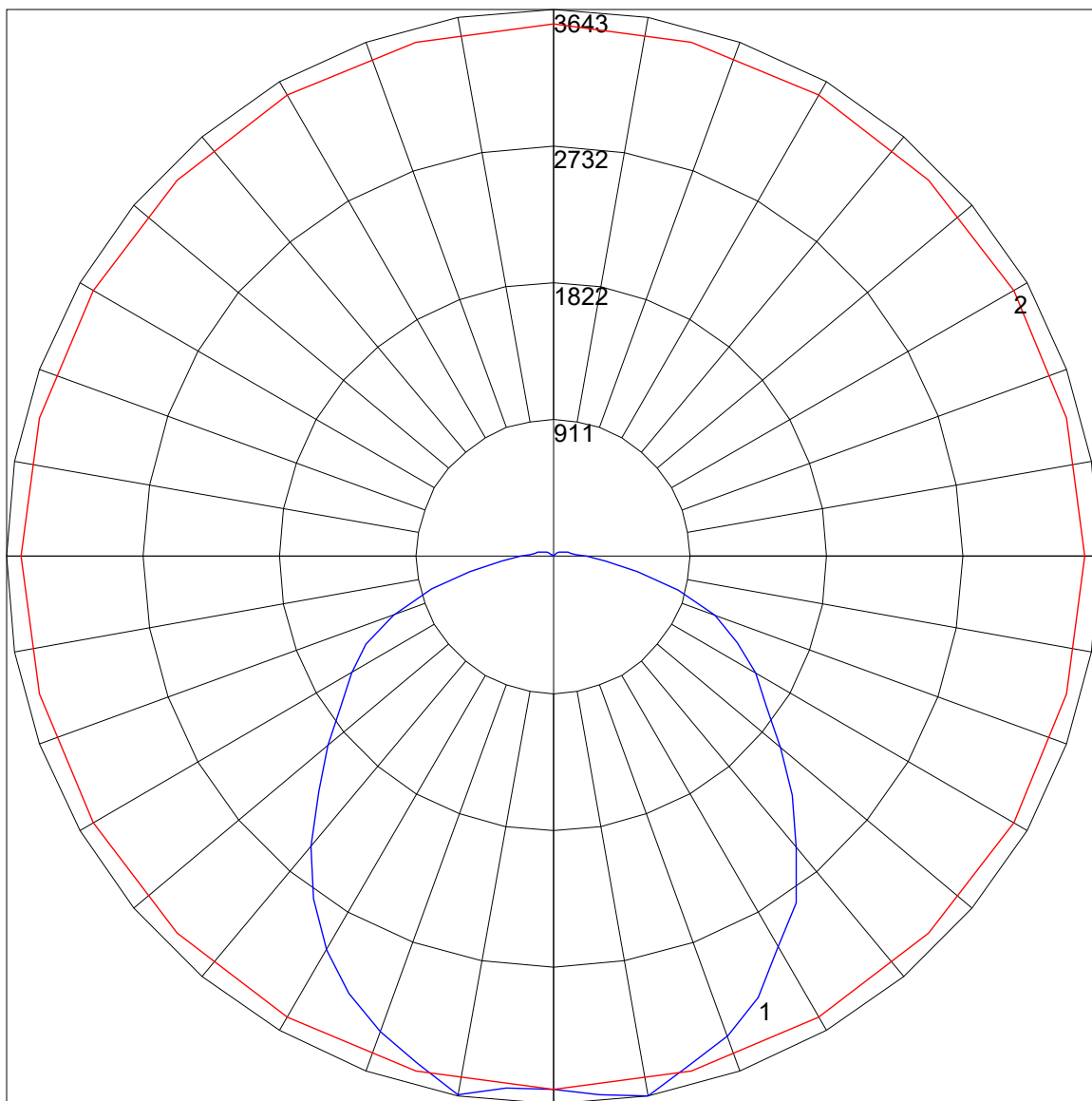
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**UGR TABLE - CORRECTED**

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	20.9	22.5	21.3	22.8	23.2	21.1	22.7	21.5	23.1	23.4
	3H	22.2	23.6	22.6	24.0	24.4	23.5	24.9	23.9	25.3	25.7
	4H	22.6	24.0	23.0	24.4	24.8	24.3	25.7	24.8	26.1	26.5
	6H	22.9	24.2	23.3	24.6	25.0	25.0	26.3	25.5	26.7	27.1
	8H	23.0	24.2	23.4	24.6	25.1	25.3	26.5	25.7	26.9	27.4
	12H	23.0	24.2	23.5	24.6	25.1	25.5	26.7	26.0	27.1	27.6
4H	2H	21.3	22.6	21.7	23.0	23.5	21.5	22.8	21.9	23.2	23.6
	3H	22.8	23.9	23.2	24.4	24.8	24.0	25.1	24.4	25.6	26.0
	4H	23.3	24.3	23.7	24.8	25.3	25.0	26.1	25.5	26.5	27.0
	6H	23.6	24.6	24.1	25.1	25.6	25.8	26.7	26.3	27.2	27.7
	8H	23.8	24.6	24.2	25.1	25.6	26.1	27.0	26.6	27.5	28.0
	12H	23.9	24.6	24.4	25.1	25.7	26.4	27.2	27.0	27.7	28.2
8H	4H	23.6	24.4	24.1	24.9	25.4	25.1	26.0	25.6	26.5	27.0
	6H	24.0	24.8	24.6	25.3	25.8	26.1	26.8	26.6	27.3	27.8
	8H	24.2	24.9	24.8	25.4	25.9	26.5	27.1	27.0	27.7	28.2
	12H	24.3	24.9	24.9	25.5	26.1	26.8	27.4	27.4	27.9	28.5
12H	4H	23.6	24.4	24.1	24.9	25.4	25.1	25.9	25.7	26.4	26.9
	6H	24.1	24.8	24.7	25.3	25.9	26.1	26.7	26.6	27.2	27.8
	8H	24.3	24.9	24.9	25.4	26.0	26.5	27.1	27.0	27.6	28.2

Maximum UGR = 28.5

POLAR GRAPH



Maximum Candela = 3643.27 Located At Horizontal Angle = 75, Vertical Angle = 10  
# 1 - Vertical Plane Through Horizontal Angles (75 - 255) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (0)