



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS101LED4HTHOWT35120-277V_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 16:47:00 2021
 [TEST] 1
 [MANUFAC] BEGHELLI
 [LUMCAT]
 [LUMINAIRE] BS101LED4HTHOWT35120-277V_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	9233
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	154
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	18374	12774	11282
55	16726	9968	9411
65	13399	7885	8367
75	8614	5981	5715
85	4680	3430	2832

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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	3151.223	3151.223	3151.223	3151.223	3151.223	3151.223	3151.223	3151.223	3151.223	3151.223
5	3159.605	3198.684	3254.432	3247.593	3140.416	3228.105	3179.564	3223.194	3196.464	3213.321
10	2979.892	3119.583	3060.724	3125.865	3175.468	3248.561	3167.369	3138.043	3139.928	3135.463
15	2937.230	2966.163	3023.162	3028.492	3148.781	3113.541	3138.334	3108.707	3082.192	3063.089
20	2871.327	2866.279	2894.920	2977.835	2966.814	3074.196	3015.389	3051.811	3034.800	2967.491
25	2777.760	2783.793	2805.141	2872.664	2906.395	2861.420	2944.121	2911.743	2885.870	2852.533
30	2600.849	2606.583	2664.130	2729.348	2751.870	2714.556	2707.966	2696.790	2708.891	2723.100
35	2448.706	2495.524	2508.688	2553.920	2517.935	2524.422	2504.017	2468.511	2487.305	2521.680
40	2250.019	2281.300	2301.225	2302.193	2274.041	2242.958	2244.860	2264.948	2231.757	2282.979
45	2079.039	2093.917	2094.757	2055.352	2004.746	1989.877	1994.136	2036.686	2001.935	2036.395
50	1817.243	1827.904	1829.969	1777.221	1743.224	1738.099	1759.721	1766.568	1741.947	1751.022
55	1574.078	1563.339	1519.915	1489.380	1522.118	1546.782	1578.988	1576.374	1540.603	1488.480
60	1279.664	1242.221	1220.317	1241.656	1329.867	1399.515	1463.182	1420.220	1334.332	1246.618
65	967.562	929.845	948.570	1051.908	1166.308	1234.029	1286.237	1240.362	1161.458	1041.478
70	659.993	655.099	724.833	870.772	972.858	1023.644	1054.204	1032.342	979.054	859.999
75	414.462	422.501	540.338	677.853	746.336	767.503	771.446	752.695	742.239	668.271
80	222.494	251.632	371.175	478.472	511.200	503.419	519.068	518.374	504.439	483.948
85	105.582	142.870	230.919	308.091	319.284	314.390	317.621	319.198	320.767	306.172
90	41.385	63.821	128.173	178.333	196.793	198.498	200.418	199.141	193.202	174.691
95	18.186	33.843	76.119	116.638	129.278	138.397	140.368	140.265	132.269	113.433
100	9.213	19.154	46.561	74.730	99.266	105.660	114.521	109.885	97.741	79.752
105	7.079	10.353	31.255	56.159	76.076	89.934	96.207	91.965	77.310	57.368
110	6.162	7.927	19.248	44.127	64.652	75.982	81.372	76.676	61.087	41.153
115	4.311	4.808	13.738	31.503	51.746	69.503	71.765	68.954	54.214	34.366
120	2.725	3.291	8.596	23.208	39.833	53.665	61.130	56.022	42.721	22.959
125	3.934	1.697	6.042	15.135	29.232	41.462	47.812	41.899	30.081	15.015
130	1.217	1.405	1.825	9.213	19.788	32.197	32.849	28.924	20.465	10.807
135	0.566	0.943	0.514	3.514	11.355	18.023	20.088	18.511	10.438	4.131
140	0.154	0.231	0.060	1.380	5.768	9.813	9.881	8.313	4.474	1.260
145	0.163	0.086	0.000	0.077	1.234	3.617	3.677	2.914	1.560	0.000
150	0.000	0.094	0.000	0.009	0.000	0.651	0.771	0.309	0.086	0.094
155	0.000	0.000	0.223	0.094	0.120	0.000	0.111	0.000	0.000	0.000
160	0.000	0.120	0.000	0.000	0.000	0.000	0.154	0.137	0.000	0.000
165	0.000	0.000	0.000	0.000	0.000	0.000	0.180	0.000	0.000	0.000
170	0.000	0.000	0.274	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	3151.223	3151.223	3151.223
5	3199.472	3200.244	3148.849
10	3112.564	3004.453	3028.672
15	3035.245	3006.365	2894.972
20	2940.975	2922.121	2860.195
25	2798.011	2791.686	2726.194
30	2684.398	2627.922	2602.006
35	2496.544	2453.908	2423.956
40	2302.699	2286.690	2298.183
45	2067.495	2079.750	2046.087
50	1813.558	1850.546	1792.244
55	1492.148	1560.391	1518.681
60	1205.473	1245.607	1273.716

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CANDELA TABULATION - (Cont.)

65	944.011	935.330	940.549
70	718.535	647.318	667.860
75	534.220	426.555	427.386
80	367.370	252.052	228.922
85	232.950	140.282	109.336
90	134.283	62.870	38.745
95	77.893	33.851	15.854
100	50.272	17.200	10.353
105	28.855	9.744	7.130
110	21.794	7.010	5.451
115	13.866	4.859	5.013
120	9.041	4.859	3.497
125	4.276	2.982	4.105
130	2.211	2.117	2.254
135	0.531	0.866	1.131
140	0.291	0.788	0.737
145	0.154	0.497	0.309
150	0.000	0.000	0.000
155	0.111	0.000	0.000
160	0.137	0.000	0.257
165	0.000	0.000	0.000
170	0.000	0.000	0.000
175	0.000	0.000	0.943
180	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1164.16	N.A.	12.60
0-30	2473.79	N.A.	26.80
0-40	4032.99	N.A.	43.70
0-60	6983.22	N.A.	75.60
0-80	8711.06	N.A.	94.40
0-90	9003.49	N.A.	97.50
10-90	8701.36	N.A.	94.20
20-40	2868.83	N.A.	31.10
20-50	4441.48	N.A.	48.10
40-70	4015.33	N.A.	43.50
60-80	1727.84	N.A.	18.70
70-80	662.74	N.A.	7.20
80-90	292.42	N.A.	3.20
90-110	168.61	N.A.	1.80
90-120	203.50	N.A.	2.20
90-130	221.74	N.A.	2.40
90-150	229.04	N.A.	2.50
90-180	229.09	N.A.	2.50
110-180	60.48	N.A.	0.70
0-180	9232.58	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	302.13
10-20	862.03
20-30	1309.63
30-40	1559.2
40-50	1572.65
50-60	1377.58
60-70	1065.1
70-80	662.74
80-90	292.42
90-100	111.32
100-110	57.30
110-120	34.88
120-130	18.25
130-140	6.31
140-150	0.99
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	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

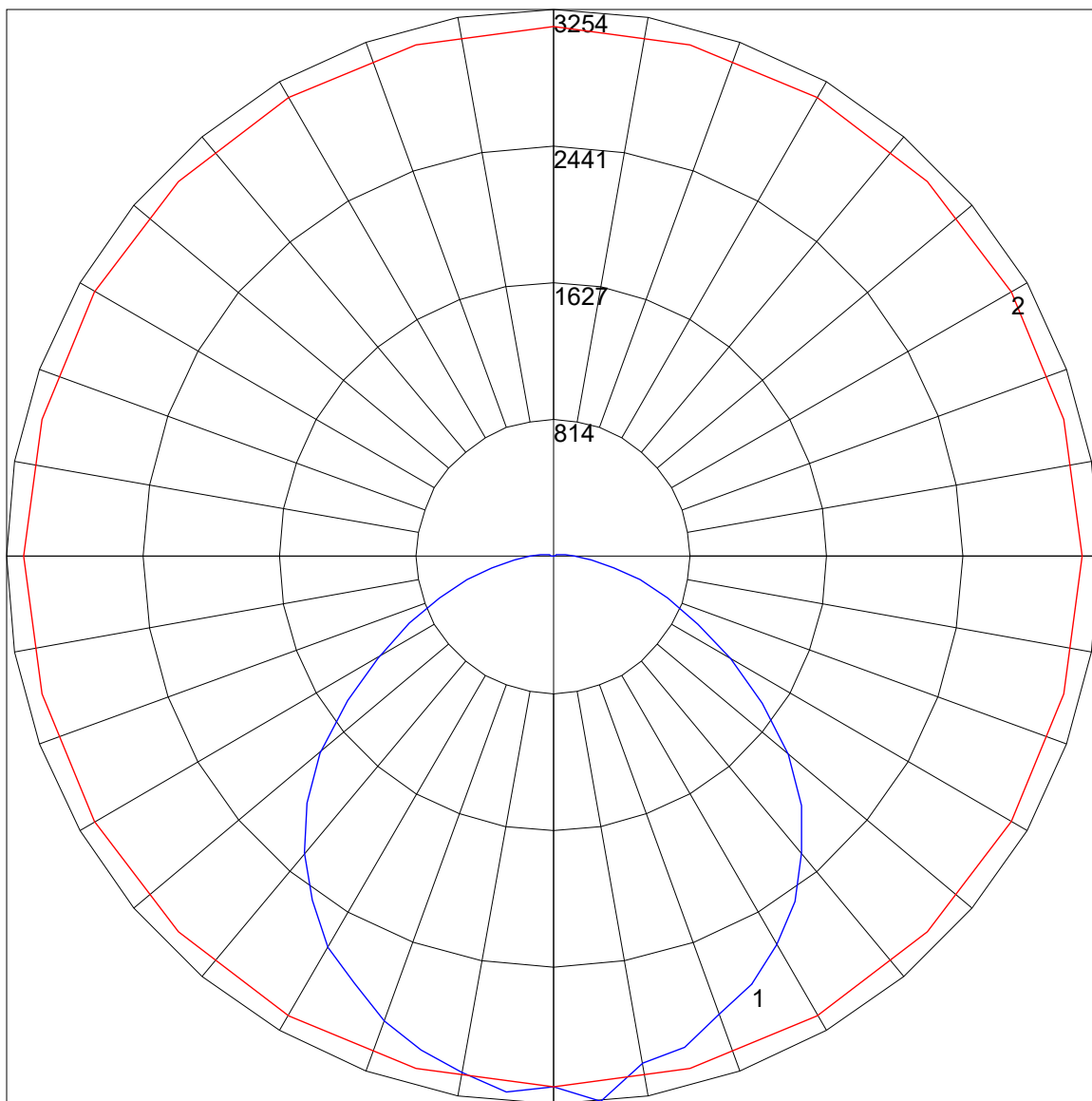
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UGR TABLE - CORRECTED

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					UGR Viewed Endwise				
X=2H	Y=2H	20.4	22.0	20.8	22.4	22.7	20.8	22.4	21.2	22.8	23.1
	3H	21.7	23.2	22.1	23.5	24.0	23.1	24.6	23.5	25.0	25.4
	4H	22.2	23.5	22.6	23.9	24.3	24.0	25.4	24.4	25.8	26.2
	6H	22.4	23.7	22.9	24.1	24.5	24.7	26.0	25.1	26.4	26.8
	8H	22.5	23.7	22.9	24.1	24.6	24.9	26.2	25.4	26.6	27.0
	12H	22.5	23.7	23.0	24.1	24.6	25.2	26.4	25.6	26.8	27.2
4H	2H	20.8	22.2	21.2	22.6	23.0	21.2	22.5	21.6	22.9	23.3
	3H	22.3	23.5	22.8	23.9	24.4	23.7	24.8	24.1	25.3	25.7
	4H	22.8	23.9	23.3	24.3	24.8	24.7	25.7	25.1	26.2	26.6
	6H	23.2	24.1	23.7	24.6	25.1	25.5	26.4	26.0	26.9	27.4
	8H	23.3	24.2	23.8	24.6	25.1	25.8	26.7	26.3	27.2	27.7
	12H	23.4	24.2	23.9	24.7	25.2	26.1	26.9	26.6	27.4	27.9
8H	4H	23.1	24.0	23.6	24.5	25.0	24.8	25.7	25.3	26.1	26.7
	6H	23.6	24.3	24.1	24.8	25.4	25.7	26.4	26.2	27.0	27.5
	8H	23.8	24.4	24.3	24.9	25.5	26.1	26.8	26.7	27.3	27.8
	12H	23.9	24.5	24.4	25.0	25.6	26.5	27.1	27.0	27.6	28.2
12H	4H	23.1	23.9	23.7	24.5	25.0	24.8	25.6	25.3	26.1	26.6
	6H	23.7	24.3	24.2	24.8	25.4	25.7	26.4	26.3	26.9	27.5
	8H	23.9	24.5	24.4	25.0	25.6	26.2	26.8	26.7	27.3	27.9

Maximum UGR = 28.2

POLAR GRAPH



Maximum Candela = 3254.432 Located At Horizontal Angle = 30, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (30 - 210) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0)