



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS101LED4HTLOWT35120-277V\_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] Tue Apr 13 16:03:06 2021

[TEST] 1

[MANUFAC] BEGHELLI

[LUMCAT]

[LUMINAIRE] BS101LED4HTLOWT35120-277V\_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	6159
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	154
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	12254	8416	7507
55	10994	6636	6241
65	8804	5272	5550
75	5700	3947	3850
85	3317	2245	1898

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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>	2161.400	2161.400	2161.400	2161.400	2161.400	2161.400	2161.400	2161.400	2161.400	2161.400
<b>5</b>	2082.272	2097.464	2140.752	2133.472	2162.936	2141.776	2173.352	2158.656	2113.912	2160.536
<b>10</b>	2071.296	2040.928	2061.200	2109.160	2119.464	2112.664	2149.880	2115.952	2128.704	2114.264
<b>15</b>	1981.016	2019.224	2038.880	2021.784	2068.432	2110.048	2072.264	2075.496	2056.944	2047.240
<b>20</b>	1880.952	1927.384	1950.792	1972.400	2026.584	2021.048	2020.080	2005.832	2006.184	2003.952
<b>25</b>	1844.168	1841.176	1874.448	1908.424	1914.024	1928.160	1947.024	1938.624	1928.088	1896.080
<b>30</b>	1751.144	1791.392	1786.344	1808.896	1808.872	1805.304	1799.648	1815.936	1811.792	1796.208
<b>35</b>	1636.848	1659.784	1671.824	1694.160	1663.344	1670.208	1647.096	1650.520	1660.752	1694.944
<b>40</b>	1525.000	1556.048	1559.008	1538.256	1483.640	1492.128	1504.288	1489.160	1498.688	1550.552
<b>45</b>	1386.520	1394.192	1395.240	1354.104	1335.784	1311.640	1326.928	1326.832	1327.984	1366.808
<b>50</b>	1204.864	1237.104	1213.184	1185.024	1163.664	1153.696	1172.072	1166.832	1147.152	1177.088
<b>55</b>	1034.632	1048.480	1010.896	991.600	1012.056	1029.544	1047.200	1035.696	1008.560	1005.520
<b>60</b>	833.544	841.952	812.880	836.448	890.864	933.608	960.056	934.264	883.856	838.280
<b>65</b>	635.744	629.048	634.376	703.328	776.680	826.912	853.160	827.752	781.128	695.784
<b>70</b>	460.856	430.552	483.344	580.160	644.016	683.032	692.304	674.808	640.720	568.776
<b>75</b>	274.280	277.464	349.152	447.384	489.136	503.664	519.720	509.688	499.088	447.368
<b>80</b>	147.392	171.248	251.968	321.768	342.544	342.832	336.168	338.672	352.720	317.000
<b>85</b>	74.824	95.656	156.936	201.688	212.512	210.272	212.928	214.224	214.320	201.280
<b>90</b>	26.816	44.944	89.208	122.904	130.320	131.104	134.240	131.336	126.608	121.648
<b>95</b>	10.976	22.552	52.144	77.464	86.296	90.752	92.488	92.640	86.816	76.808
<b>100</b>	6.680	12.136	29.928	52.072	62.360	72.136	73.440	70.728	62.632	53.016
<b>105</b>	5.624	7.264	20.024	37.872	50.848	61.336	59.488	61.016	50.472	37.792
<b>110</b>	3.472	5.072	13.768	26.520	42.400	51.976	57.880	54.656	42.944	28.120
<b>115</b>	3.208	3.368	9.008	21.080	36.336	44.976	48.528	46.456	35.496	22.288
<b>120</b>	3.304	3.048	5.656	16.056	28.568	36.152	40.400	34.824	28.992	14.856
<b>125</b>	1.456	1.656	3.080	10.696	18.992	28.944	31.968	29.368	19.152	10.824
<b>130</b>	0.648	1.104	1.560	6.128	14.136	19.504	21.472	19.328	13.848	6.384
<b>135</b>	0.752	1.152	0.280	2.640	8.352	11.360	13.240	11.888	6.664	2.904
<b>140</b>	0.520	0.200	0.048	0.984	4.248	6.176	6.976	5.704	3.848	0.912
<b>145</b>	0.008	0.000	0.000	0.112	0.528	2.128	2.968	2.576	0.504	0.056
<b>150</b>	0.000	0.000	0.000	0.000	0.128	0.064	0.376	0.184	0.072	0.000
<b>155</b>	0.000	0.000	0.072	0.000	0.000	0.080	0.000	0.008	0.000	0.000
<b>160</b>	0.000	0.000	0.000	0.000	0.000	0.096	0.000	0.000	0.008	0.000
<b>165</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>170</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	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>	2161.400	2161.400	2161.400
<b>5</b>	2082.280	2100.216	2063.360
<b>10</b>	2081.408	2070.344	2054.744
<b>15</b>	2017.120	1991.592	1966.944
<b>20</b>	1937.984	1934.240	1891.440
<b>25</b>	1858.880	1848.944	1841.536
<b>30</b>	1772.488	1779.936	1733.256
<b>35</b>	1680.704	1642.576	1616.920
<b>40</b>	1569.616	1518.904	1513.864
<b>45</b>	1407.440	1393.824	1399.104
<b>50</b>	1224.944	1239.024	1216.000
<b>55</b>	1015.448	1038.832	1034.152
<b>60</b>	812.528	838.816	834.328

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CANDELA TABULATION - (Cont.)

65	625.168	616.304	643.168
70	474.512	437.224	446.256
75	360.152	280.904	276.600
80	242.528	173.136	156.016
85	159.856	93.280	72.616
90	85.504	43.168	27.376
95	54.000	23.368	12.040
100	30.320	12.496	6.944
105	21.008	7.576	4.128
110	13.280	5.840	4.504
115	8.400	3.392	3.712
120	6.048	2.264	2.816
125	3.464	2.000	1.912
130	2.024	1.000	1.656
135	0.368	1.032	0.784
140	0.200	0.424	0.400
145	0.056	0.216	0.000
150	0.000	0.056	0.000
155	0.008	0.000	0.264
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	778.85	N.A.	12.60
0-30	1651.17	N.A.	26.80
0-40	2691.92	N.A.	43.70
0-60	4660.24	N.A.	75.70
0-80	5810.49	N.A.	94.30
0-90	6006.32	N.A.	97.50
10-90	5803.88	N.A.	94.20
20-40	1913.07	N.A.	31.10
20-50	2962.81	N.A.	48.10
40-70	2678.13	N.A.	43.50
60-80	1150.24	N.A.	18.70
70-80	440.44	N.A.	7.20
80-90	195.83	N.A.	3.20
90-110	112.19	N.A.	1.80
90-120	135.65	N.A.	2.20
90-130	147.89	N.A.	2.40
90-150	152.80	N.A.	2.50
90-180	152.81	N.A.	2.50
110-180	40.62	N.A.	0.70
0-180	6159.13	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	202.44
10-20	576.41
20-30	872.32
30-40	1040.75
40-50	1049.74
50-60	918.58
60-70	709.81
70-80	440.44
80-90	195.83
90-100	74.15
100-110	38.04
110-120	23.46
120-130	12.24
130-140	4.24
140-150	0.67
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**

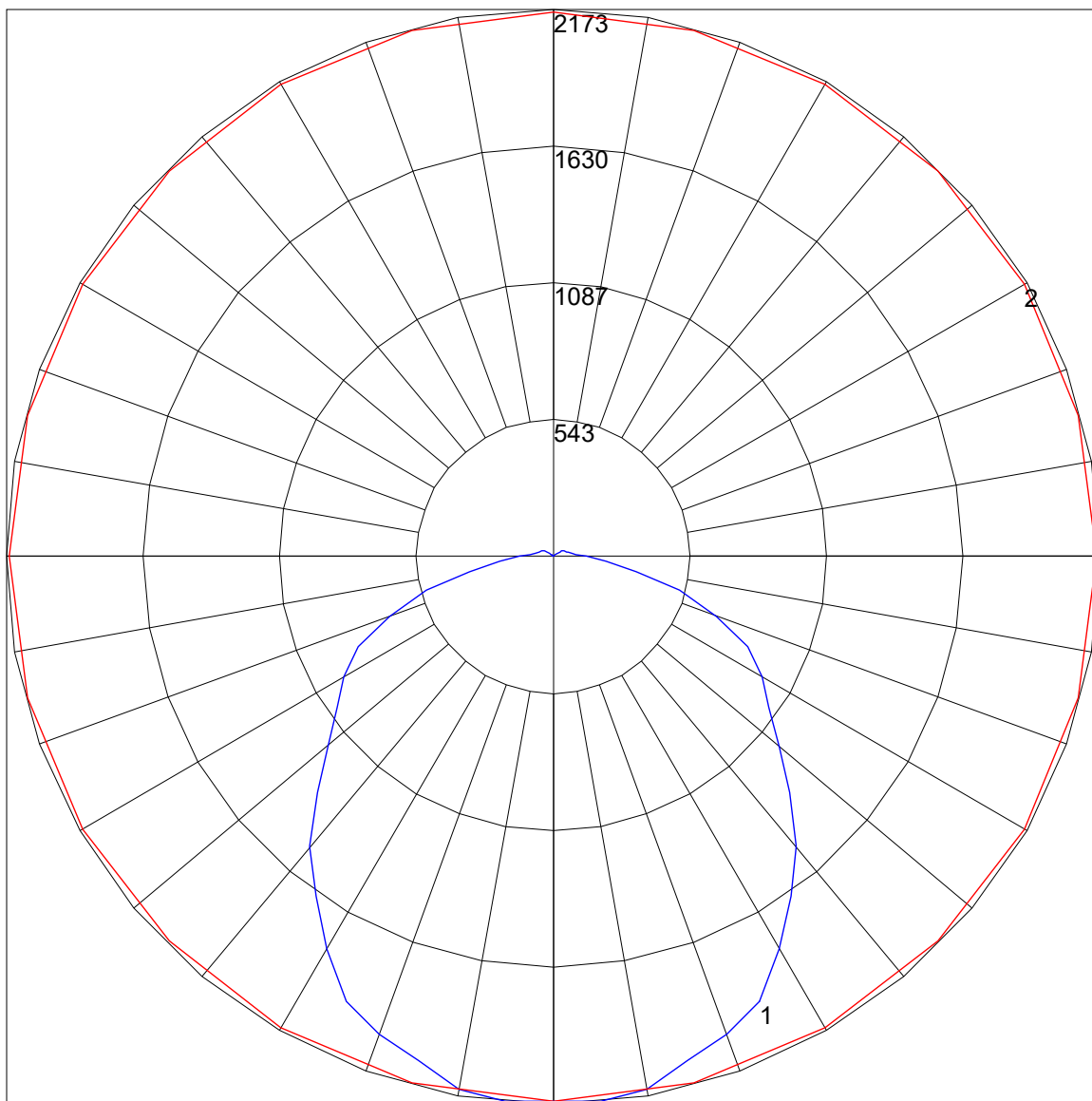
Reflectances

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	19.1	20.7	19.5	21.0	21.4	19.4	21.0	19.8	21.3	21.7
	3H	20.4	21.8	20.8	22.2	22.6	21.7	23.1	22.1	23.5	23.9
	4H	20.8	22.1	21.2	22.5	23.0	22.6	23.9	23.0	24.3	24.8
	6H	21.0	22.3	21.5	22.7	23.1	23.3	24.5	23.7	24.9	25.4
	8H	21.1	22.3	21.6	22.7	23.2	23.5	24.7	24.0	25.2	25.6
	12H	21.2	22.3	21.6	22.7	23.2	23.7	24.9	24.2	25.3	25.8
4H	2H	19.5	20.8	19.9	21.2	21.6	19.7	21.1	20.1	21.5	21.9
	3H	20.9	22.1	21.4	22.5	23.0	22.2	23.4	22.7	23.8	24.3
	4H	21.4	22.5	21.9	23.0	23.4	23.2	24.3	23.7	24.7	25.2
	6H	21.8	22.7	22.3	23.2	23.7	24.0	25.0	24.5	25.4	25.9
	8H	21.9	22.8	22.4	23.3	23.8	24.4	25.2	24.8	25.7	26.2
	12H	22.0	22.8	22.5	23.3	23.8	24.7	25.4	25.2	26.0	26.5
8H	4H	21.7	22.6	22.2	23.1	23.6	23.4	24.2	23.8	24.7	25.2
	6H	22.2	22.9	22.7	23.4	24.0	24.3	25.0	24.8	25.5	26.1
	8H	22.4	23.0	22.9	23.6	24.1	24.7	25.3	25.2	25.9	26.4
	12H	22.5	23.1	23.0	23.6	24.2	25.1	25.7	25.6	26.2	26.8
12H	4H	21.8	22.6	22.3	23.1	23.6	23.4	24.1	23.9	24.7	25.2
	6H	22.3	22.9	22.8	23.4	24.0	24.3	25.0	24.9	25.5	26.0
	8H	22.5	23.1	23.0	23.6	24.2	24.7	25.3	25.3	25.8	26.5

Maximum UGR = 26.8

POLAR GRAPH



Maximum Candela = 2173.352 Located At Horizontal Angle = 90, Vertical Angle = 5  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (0)