



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS101LED4HTLOWT40120-277V\_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 16:15:02 2021

[TEST] 1

[MANUFAC] BEGHELLI

[LUMCAT]

[LUMINAIRE] BS101LED4HTLOWT40120-277V\_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	6536
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	163
Total Luminaire Watts	40
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
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	12838	9052	8052
55	11513	7037	6603
65	9406	5573	5756
75	6065	4181	4047
85	3417	2409	2038

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**CANDELA TABULATION**

	<b>0</b>	<b>15</b>	<b>30</b>	<b>45</b>	<b>60</b>	<b>75</b>	<b>90</b>	<b>105</b>	<b>120</b>	<b>135</b>
<b>0</b>	2253.336	2253.336	2253.336	2253.336	2253.336	2253.336	2253.336	2253.336	2253.336	2253.336
<b>5</b>	2187.112	2225.680	2230.752	2327.688	2263.736	2280.792	2331.968	2265.336	2247.560	2274.576
<b>10</b>	2198.376	2173.120	2214.368	2228.536	2226.936	2241.704	2255.208	2230.912	2258.224	2238.920
<b>15</b>	2145.856	2129.560	2151.744	2139.696	2171.784	2233.488	2243.968	2201.176	2185.968	2125.408
<b>20</b>	2040.040	2068.056	2076.328	2113.248	2111.152	2149.072	2155.192	2117.888	2108.184	2090.832
<b>25</b>	1917.664	1964.584	1990.256	2016.560	2040.752	2064.560	2051.496	2046.584	2023.360	2016.488
<b>30</b>	1876.256	1888.432	1881.312	1917.488	1920.608	1915.528	1905.984	1894.144	1942.408	1908.256
<b>35</b>	1729.336	1769.888	1802.000	1784.312	1776.024	1755.744	1755.112	1772.736	1743.288	1797.336
<b>40</b>	1637.888	1628.552	1645.768	1615.248	1593.976	1600.552	1595.024	1592.768	1602.424	1642.568
<b>45</b>	1452.680	1483.032	1479.456	1456.488	1393.472	1399.744	1423.240	1396.272	1405.512	1441.576
<b>50</b>	1292.480	1320.888	1283.208	1228.680	1222.808	1240.768	1251.224	1245.736	1223.448	1239.464
<b>55</b>	1083.456	1104.184	1089.552	1051.456	1050.256	1088.544	1107.880	1098.552	1071.224	1048.176
<b>60</b>	883.848	876.672	860.816	875.920	929.904	988.472	1000.016	997.640	938.104	889.320
<b>65</b>	679.240	663.632	673.584	743.472	822.104	869.664	884.824	875.392	827.560	737.576
<b>70</b>	482.816	458.632	515.784	614.824	684.920	727.600	733.248	724.024	686.576	610.320
<b>75</b>	291.808	295.224	382.536	473.832	530.280	536.032	546.312	529.056	518.448	475.976
<b>80</b>	167.208	178.784	267.080	339.248	368.104	361.200	368.600	354.256	365.536	339.968
<b>85</b>	77.088	100.016	162.240	216.408	222.248	227.936	228.592	226.328	223.808	218.368
<b>90</b>	28.648	45.792	93.976	127.560	137.624	142.960	142.264	139.096	138.520	127.464
<b>95</b>	12.376	22.512	55.024	77.616	88.272	98.128	98.696	97.704	90.088	80.848
<b>100</b>	6.104	12.984	31.984	54.712	71.752	73.704	77.368	77.248	68.488	54.744
<b>105</b>	3.856	8.912	21.712	42.520	55.288	63.464	65.736	62.768	51.816	38.016
<b>110</b>	3.872	5.288	15.696	28.976	47.488	55.760	60.320	56.616	44.816	29.584
<b>115</b>	4.152	3.104	9.552	24.800	39.456	51.256	51.184	49.936	37.824	22.680
<b>120</b>	2.816	2.192	6.000	16.032	30.192	37.904	43.440	38.896	28.888	17.352
<b>125</b>	1.936	1.400	2.832	12.584	21.864	27.904	32.368	29.760	19.752	9.600
<b>130</b>	2.064	0.776	1.696	6.040	14.016	20.856	22.960	21.224	14.224	7.560
<b>135</b>	0.480	0.568	0.472	2.936	8.632	12.088	13.944	12.648	7.040	3.368
<b>140</b>	0.000	0.160	0.000	0.856	3.360	6.504	8.200	7.216	3.328	0.328
<b>145</b>	0.000	0.064	0.000	0.104	1.056	2.880	2.760	2.440	1.192	0.168
<b>150</b>	0.000	0.000	0.000	0.000	0.064	0.200	0.504	0.264	0.064	0.008
<b>155</b>	0.000	0.000	0.008	0.064	0.000	0.072	0.144	0.160	0.000	0.000
<b>160</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	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**

	<b>150</b>	<b>165</b>	<b>180</b>
<b>0</b>	2253.336	2253.336	2253.336
<b>5</b>	2291.560	2157.312	2188.872
<b>10</b>	2234.816	2202.888	2130.680
<b>15</b>	2111.152	2121.520	2096.896
<b>20</b>	2067.696	2037.160	2013.888
<b>25</b>	1984.880	1971.448	1935.896
<b>30</b>	1924.288	1892.936	1853.432
<b>35</b>	1799.352	1754.080	1740.152
<b>40</b>	1655.952	1633.600	1609.288
<b>45</b>	1498.848	1495.336	1478.408
<b>50</b>	1302.368	1314.312	1291.280
<b>55</b>	1081.608	1124.640	1113.032
<b>60</b>	868.960	894.592	894.528

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CANDELA TABULATION - (Cont.)

65	679.176	670.128	683.688
70	510.200	465.064	477.224
75	379.336	304.432	294.088
80	262.480	181.032	162.176
85	165.328	99.696	77.536
90	94.456	45.736	29.832
95	56.656	23.824	13.440
100	33.192	13.880	7.592
105	23.200	7.416	5.648
110	15.112	5.152	4.680
115	9.216	3.648	4.096
120	6.504	2.496	2.888
125	3.256	1.848	2.528
130	1.704	1.312	0.928
135	0.424	0.840	0.616
140	0.080	0.000	0.640
145	0.120	0.168	0.232
150	0.008	0.000	0.000
155	0.000	0.000	0.000
160	0.000	0.000	0.184
165	0.000	0.000	0.224
170	0.000	0.000	0.000
175	0.000	0.016	0.000
180	0.000	0.000	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	824.88	N.A.	12.60
0-30	1750.24	N.A.	26.80
0-40	2856.94	N.A.	43.70
0-60	4944.93	N.A.	75.70
0-80	6165.99	N.A.	94.30
0-90	6373.82	N.A.	97.50
10-90	6159.65	N.A.	94.20
20-40	2032.06	N.A.	31.10
20-50	3146.71	N.A.	48.10
40-70	2840.74	N.A.	43.50
60-80	1221.05	N.A.	18.70
70-80	468.31	N.A.	7.20
80-90	207.84	N.A.	3.20
90-110	118.94	N.A.	1.80
90-120	144.13	N.A.	2.20
90-130	156.86	N.A.	2.40
90-150	162.02	N.A.	2.50
90-180	162.04	N.A.	2.50
110-180	43.10	N.A.	0.70
0-180	6535.86	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	214.17
10-20	610.71
20-30	925.36
30-40	1106.7
40-50	1114.65
50-60	973.34
60-70	752.75
70-80	468.31
80-90	207.84
90-100	78.39
100-110	40.54
110-120	25.19
120-130	12.73
130-140	4.43
140-150	0.73
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	52	39	31	26	51	39	31	26	37	31	26	36	30	26	35	30	25	24

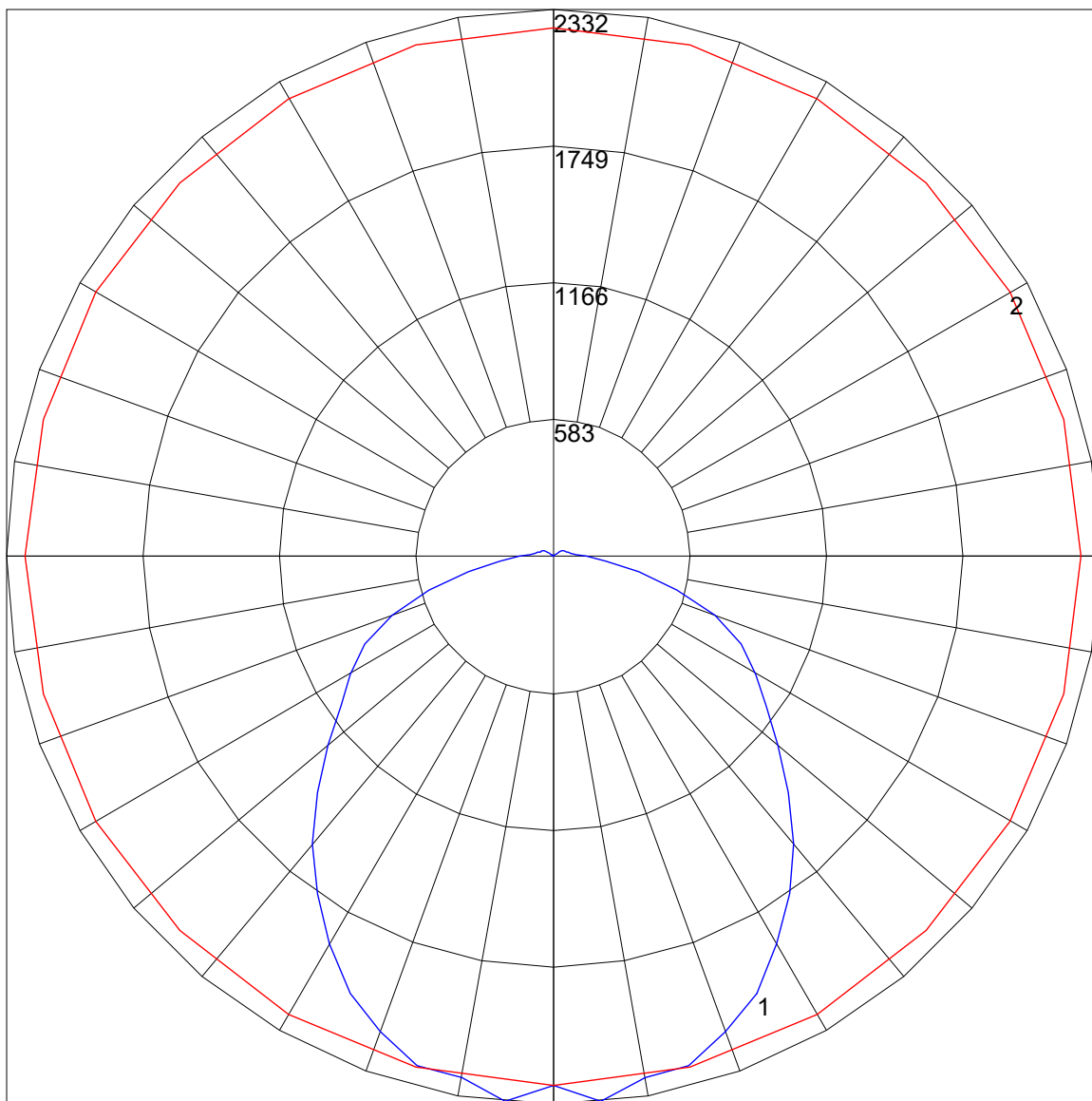
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**UGR TABLE - CORRECTED**

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	19.2	20.8	19.6	21.2	21.5	19.5	21.1	19.9	21.5	21.9
	3H	20.5	22.0	20.9	22.3	22.8	21.9	23.3	22.3	23.7	24.1
	4H	20.9	22.3	21.4	22.7	23.1	22.8	24.1	23.2	24.5	24.9
	6H	21.2	22.5	21.7	22.9	23.3	23.4	24.7	23.9	25.1	25.6
	8H	21.3	22.5	21.7	22.9	23.4	23.7	24.9	24.2	25.4	25.8
	12H	21.3	22.5	21.8	22.9	23.4	24.0	25.1	24.4	25.5	26.0
4H	2H	19.6	21.0	20.0	21.4	21.8	19.9	21.3	20.3	21.7	22.1
	3H	21.1	22.3	21.6	22.7	23.2	22.4	23.6	22.8	24.0	24.5
	4H	21.6	22.7	22.1	23.1	23.6	23.4	24.5	23.9	24.9	25.4
	6H	22.0	22.9	22.5	23.4	23.9	24.2	25.2	24.7	25.6	26.1
	8H	22.1	23.0	22.6	23.4	24.0	24.6	25.4	25.0	25.9	26.4
	12H	22.2	23.0	22.7	23.5	24.0	24.9	25.7	25.4	26.2	26.7
8H	4H	21.9	22.8	22.4	23.3	23.8	23.5	24.4	24.0	24.9	25.4
	6H	22.4	23.1	22.9	23.6	24.2	24.5	25.2	25.0	25.7	26.2
	8H	22.6	23.2	23.1	23.8	24.3	24.9	25.5	25.4	26.1	26.6
	12H	22.7	23.3	23.2	23.8	24.4	25.3	25.9	25.8	26.4	27.0
12H	4H	21.9	22.7	22.5	23.2	23.8	23.5	24.3	24.0	24.8	25.4
	6H	22.5	23.1	23.0	23.6	24.2	24.5	25.2	25.1	25.7	26.2
	8H	22.7	23.3	23.2	23.8	24.4	24.9	25.5	25.5	26.0	26.6

Maximum UGR = 27.0

POLAR GRAPH



Maximum Candela = 2331.968 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)