



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS101LED4HTLOWT30120-277V_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 15:47:55 2021

[TEST] 1

[MANUFAC] BEGHELLI

[LUMCAT]

[LUMINAIRE] BS101LED4HTLOWT30120-277V_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	5786
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	145
Total Luminaire Watts	40
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	11757	7903	7013
55	10523	6220	5853
65	8379	4891	5099
75	5411	3739	3618
85	2994	2149	1802

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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	2019.008	2019.008	2019.008	2019.008	2019.008	2019.008	2019.008	2019.008	2019.008	2019.008
5	2003.504	1993.600	2013.120	2009.336	2012.112	1967.432	2017.592	2033.208	2012.080	2015.944
10	1900.040	1936.792	1949.000	1935.096	1958.704	1956.688	2009.208	1971.256	1958.960	1957.328
15	1848.968	1916.320	1913.640	1927.808	1936.384	1946.824	1975.128	1968.560	1925.656	1939.296
20	1812.344	1804.536	1815.440	1879.800	1883.608	1872.416	1885.480	1876.848	1884.208	1848.432
25	1733.216	1757.600	1753.872	1782.592	1787.616	1808.624	1831.704	1844.128	1798.832	1809.656
30	1650.392	1671.896	1667.328	1701.704	1702.104	1690.648	1697.904	1700.720	1705.912	1711.200
35	1538.800	1566.712	1594.360	1586.928	1543.640	1567.608	1565.624	1562.224	1558.648	1589.600
40	1441.632	1444.496	1468.568	1449.656	1411.144	1398.040	1411.320	1406.456	1410.080	1458.192
45	1330.360	1303.568	1305.704	1271.624	1239.840	1247.056	1239.512	1253.696	1241.840	1283.696
50	1139.112	1149.656	1139.560	1103.896	1074.480	1086.096	1106.136	1091.592	1086.688	1107.000
55	990.360	983.272	942.496	929.392	928.152	976.112	982.136	977.528	947.208	939.960
60	791.320	791.720	760.768	781.016	819.552	871.688	886.936	883.232	836.632	787.304
65	605.032	580.624	596.320	652.528	721.448	773.568	783.896	775.488	713.744	662.608
70	413.936	401.392	456.768	541.880	605.296	635.608	659.296	633.192	604.864	549.976
75	260.344	261.088	336.936	423.824	459.720	480.976	488.360	479.848	462.408	428.272
80	142.088	161.024	236.456	300.888	322.232	318.856	317.392	318.504	321.880	300.136
85	67.552	91.128	152.640	193.000	194.144	193.816	202.168	194.784	198.464	193.480
90	25.488	40.736	82.240	114.344	120.656	125.640	123.632	126.912	122.928	112.728
95	11.048	22.544	46.048	73.912	80.128	86.296	87.560	86.608	82.088	72.280
100	5.624	10.936	29.496	48.608	61.000	67.096	68.496	66.072	59.520	49.712
105	4.088	6.408	20.832	35.312	47.224	54.912	60.256	57.640	49.040	34.136
110	3.600	3.928	10.824	26.656	41.768	51.024	51.216	48.408	39.072	26.176
115	2.424	3.240	8.632	20.776	32.720	42.032	45.008	39.736	33.288	21.160
120	3.152	2.328	5.872	14.792	27.064	33.096	37.152	34.208	25.312	14.640
125	1.552	1.584	2.704	10.272	19.760	26.360	29.248	27.208	18.000	10.128
130	1.344	0.816	1.120	6.736	12.088	18.352	20.048	18.232	12.936	5.840
135	0.928	0.696	0.296	2.168	7.056	11.704	12.816	10.064	7.272	3.096
140	0.240	0.200	0.088	0.768	2.768	5.296	7.352	6.024	3.816	0.648
145	0.000	0.064	0.000	0.096	0.768	2.472	2.352	2.400	0.584	0.096
150	0.000	0.000	0.000	0.000	0.000	0.136	0.256	0.264	0.120	0.056
155	0.000	0.000	0.000	0.000	0.072	0.000	0.072	0.000	0.136	0.000
160	0.000	0.000	0.000	0.072	0.000	0.000	0.000	0.000	0.000	0.000
165	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170	0.000	0.000	0.000	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	2019.008	2019.008	2019.008
5	1969.640	1979.152	1981.368
10	1970.320	1916.344	1889.448
15	1878.504	1862.824	1835.712
20	1824.712	1796.752	1804.616
25	1749.928	1738.616	1743.824
30	1705.784	1650.904	1658.672
35	1577.048	1574.616	1551.256
40	1481.584	1448.664	1432.336
45	1304.664	1318.824	1289.080
50	1154.888	1165.496	1153.152
55	948.808	980.608	971.296
60	772.912	792.024	790.024

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CANDELA TABULATION - (Cont.)

65	594.496	591.552	607.704
70	460.080	409.792	420.064
75	338.472	264.768	261.144
80	237.640	159.976	141.632
85	149.944	88.392	68.264
90	82.576	41.584	26.584
95	47.592	20.528	9.832
100	30.928	11.264	5.560
105	18.416	7.576	5.304
110	12.808	4.424	2.776
115	8.560	2.808	2.936
120	4.984	1.432	2.048
125	2.984	1.624	1.568
130	1.144	1.320	1.200
135	0.384	0.632	0.664
140	0.176	0.144	0.376
145	0.048	0.056	0.184
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	729.58	N.A.	12.60
0-30	1549.86	N.A.	26.80
0-40	2530.91	N.A.	43.70
0-60	4378.67	N.A.	75.70
0-80	5459.59	N.A.	94.40
0-90	5643.46	N.A.	97.50
10-90	5454.00	N.A.	94.30
20-40	1801.33	N.A.	31.10
20-50	2787.29	N.A.	48.20
40-70	2513.34	N.A.	43.40
60-80	1080.92	N.A.	18.70
70-80	415.34	N.A.	7.20
80-90	183.86	N.A.	3.20
90-110	105.40	N.A.	1.80
90-120	127.05	N.A.	2.20
90-130	138.44	N.A.	2.40
90-150	143.01	N.A.	2.50
90-180	143.03	N.A.	2.50
110-180	37.63	N.A.	0.70
0-180	5786.49	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	189.46
10-20	540.13
20-30	820.28
30-40	981.05
40-50	985.96
50-60	861.80
60-70	665.58
70-80	415.34
80-90	183.86
90-100	69.63
100-110	35.78
110-120	21.64
120-130	11.39
130-140	3.95
140-150	0.63
150-160	0.01
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	38	31	26	36	30	26	35	30	25	24

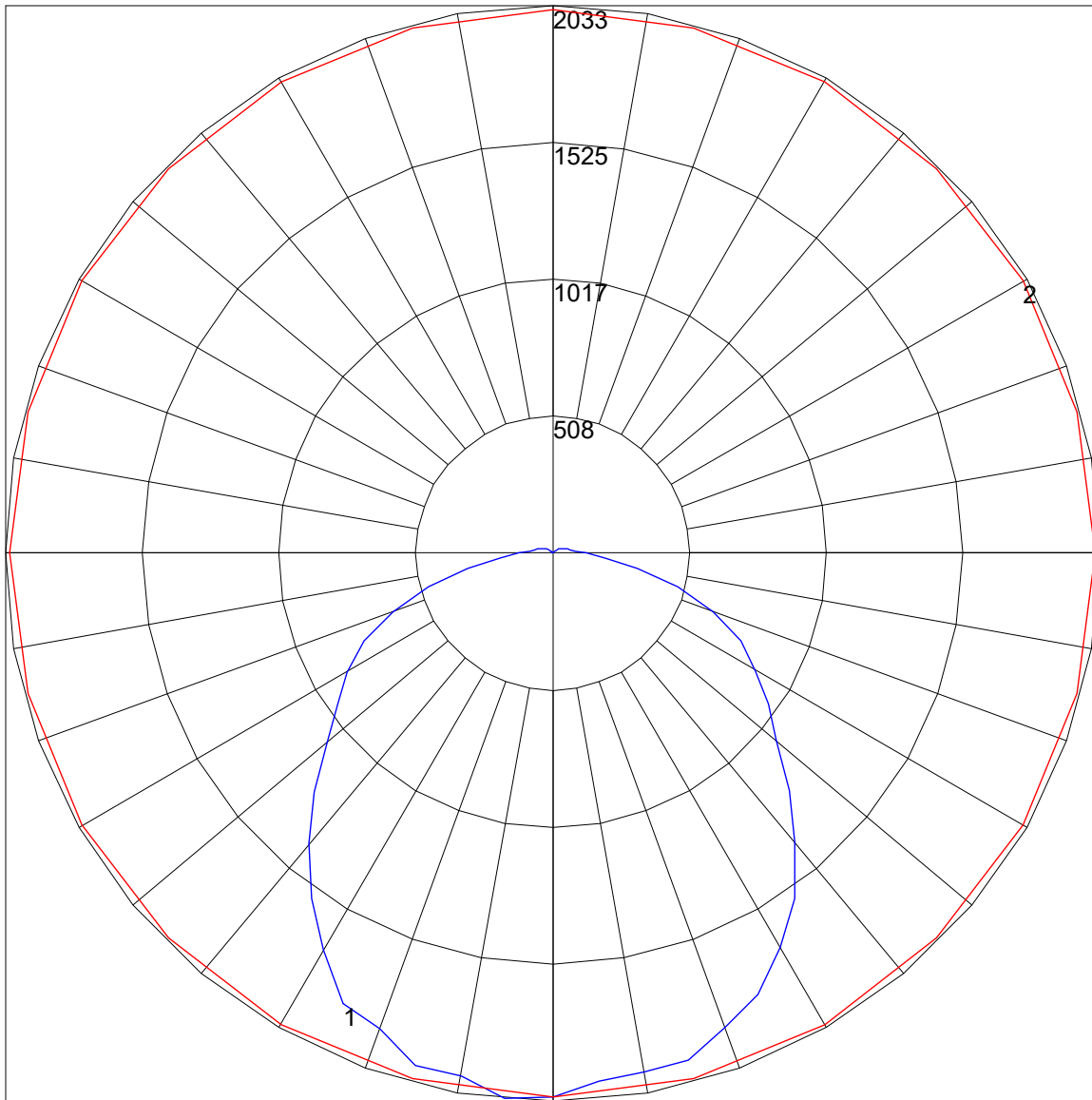
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UGR TABLE - CORRECTED

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	18.8	20.4	19.2	20.8	21.2	19.2	20.8	19.6	21.1	21.5
	3H	20.1	21.6	20.6	22.0	22.4	21.5	22.9	21.9	23.3	23.7
	4H	20.5	21.9	21.0	22.3	22.7	22.4	23.7	22.8	24.1	24.6
	6H	20.8	22.1	21.3	22.5	22.9	23.1	24.3	23.5	24.7	25.2
	8H	20.9	22.1	21.3	22.5	23.0	23.3	24.5	23.8	25.0	25.4
	12H	20.9	22.1	21.4	22.5	23.0	23.5	24.7	24.0	25.1	25.6
4H	2H	19.2	20.6	19.7	21.0	21.4	19.5	20.9	20.0	21.3	21.7
	3H	20.7	21.9	21.2	22.3	22.8	22.0	23.2	22.4	23.6	24.1
	4H	21.2	22.3	21.7	22.7	23.2	23.0	24.1	23.5	24.5	25.0
	6H	21.6	22.5	22.1	23.0	23.5	23.8	24.8	24.3	25.2	25.7
	8H	21.7	22.6	22.2	23.0	23.5	24.2	25.0	24.6	25.5	26.0
	12H	21.8	22.6	22.3	23.1	23.6	24.5	25.2	25.0	25.8	26.3
8H	4H	21.5	22.4	22.0	22.9	23.4	23.2	24.0	23.6	24.5	25.0
	6H	22.0	22.7	22.5	23.2	23.8	24.1	24.8	24.6	25.3	25.9
	8H	22.2	22.8	22.7	23.4	23.9	24.5	25.1	25.0	25.7	26.2
	12H	22.3	22.9	22.8	23.4	24.0	24.9	25.5	25.4	26.0	26.6
12H	4H	21.6	22.3	22.1	22.8	23.4	23.2	23.9	23.7	24.5	25.0
	6H	22.1	22.7	22.6	23.2	23.8	24.1	24.8	24.7	25.3	25.8
	8H	22.3	22.9	22.8	23.4	24.0	24.5	25.1	25.1	25.6	26.2

Maximum UGR = 26.6

POLAR GRAPH



Maximum Candela = 2033.208 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)