

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS100LED4HTLOWT50120-277V\_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] Fri Apr 09 13:01:21 2021

[TEST] 1

[MANUFAC] BEGHELLI

[LUMCAT] LINEAR - INDOOR / OUTDOOR LUMINAIRE

[LUMINAIRE] BS100LED4HTLOWT50120-277V\_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	6627
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	166
Total Luminaire Watts	40
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.21 ft
Luminous Width (90-270)	0.58 ft
Luminous Height	0.32 ft

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	8656	6445	5996
55	8047	5454	4983
65	7164	4263	3811
75	5962	2877	2498
85	4883	1500	1247

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CANDELA TABULATION

	<u>0</u>
0.0	2227.944
2.5	2231.744
5.0	2253.080
7.5	2244.424
10.0	2196.936
12.5	2176.344
15.0	2158.912
17.5	2119.152
20.0	2075.248
22.5	2039.848
25.0	2003.344
27.5	1943.880
30.0	1899.072
32.5	1846.224
35.0	1775.384
37.5	1719.592
40.0	1645.952
42.5	1570.616
45.0	1497.952
47.5	1422.816
50.0	1338.224
52.5	1254.880
55.0	1163.840
57.5	1072.384
60.0	983.472
62.5	886.320
65.0	801.040
67.5	706.600
70.0	620.040
72.5	531.736
75.0	450.744
77.5	369.136
80.0	299.744
82.5	233.728
85.0	181.112
87.5	136.440
90.0	103.232
92.5	76.680
95.0	57.736
97.5	43.528
100.0	34.520
102.5	26.288
105.0	21.376
107.5	16.912
110.0	13.984
112.5	11.080
115.0	8.696
117.5	6.792
120.0	5.456
122.5	3.728
125.0	2.856
127.5	1.744
130.0	1.120
132.5	0.600

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**CANDELA TABULATION - (Cont.)**

<b>135.0</b>	0.360
<b>137.5</b>	0.144
<b>140.0</b>	0.064
<b>142.5</b>	0.016
<b>145.0</b>	0.000
<b>147.5</b>	0.000
<b>150.0</b>	0.000
<b>152.5</b>	0.000
<b>155.0</b>	0.000
<b>157.5</b>	0.000
<b>160.0</b>	0.000
<b>162.5</b>	0.000
<b>165.0</b>	0.000
<b>167.5</b>	0.000
<b>170.0</b>	0.000
<b>172.5</b>	0.000
<b>175.0</b>	0.000
<b>177.5</b>	0.000
<b>180.0</b>	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	820.33	N.A.	12.40
0-30	1740.6	N.A.	26.30
0-40	2854.71	N.A.	43.10
0-60	5050.29	N.A.	76.20
0-80	6318.9	N.A.	95.40
0-90	6523.96	N.A.	98.40
10-90	6310.71	N.A.	95.20
20-40	2034.39	N.A.	30.70
20-50	3189.66	N.A.	48.10
40-70	2986.33	N.A.	45.10
60-80	1268.6	N.A.	19.10
70-80	477.86	N.A.	7.20
80-90	205.07	N.A.	3.10
90-110	90.98	N.A.	1.40
90-120	100.04	N.A.	1.50
90-130	102.68	N.A.	1.50
90-150	103.03	N.A.	1.60
90-180	103.03	N.A.	1.60
110-180	12.05	N.A.	0.20
0-180	6626.99	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	213.26
10-20	607.07
20-30	920.28
30-40	1114.11
40-50	1155.27
50-60	1040.31
60-70	790.75
70-80	477.86
80-90	205.07
90-100	67.41
100-110	23.57
110-120	9.06
120-130	2.64
130-140	0.34
140-150	0.01
150-160	0.00
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	119	119	119	119	116	116	116	116	110	110	110	105	105	105	101	101	101	98
1	108	103	98	94	105	100	96	93	96	92	89	92	89	86	88	86	83	81
2	98	89	82	76	95	87	81	75	84	78	73	80	75	71	77	73	70	67
3	89	78	70	63	87	77	69	63	73	67	61	70	65	60	68	63	59	57
4	82	69	60	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	44	54	48	44	42
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	49	43	38	36
7	64	50	42	35	62	50	41	35	48	40	35	46	40	34	45	39	34	32
8	60	46	37	32	58	45	37	31	44	36	31	42	36	31	41	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	35	29	25	23

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**UGR TABLE - CORRECTED**

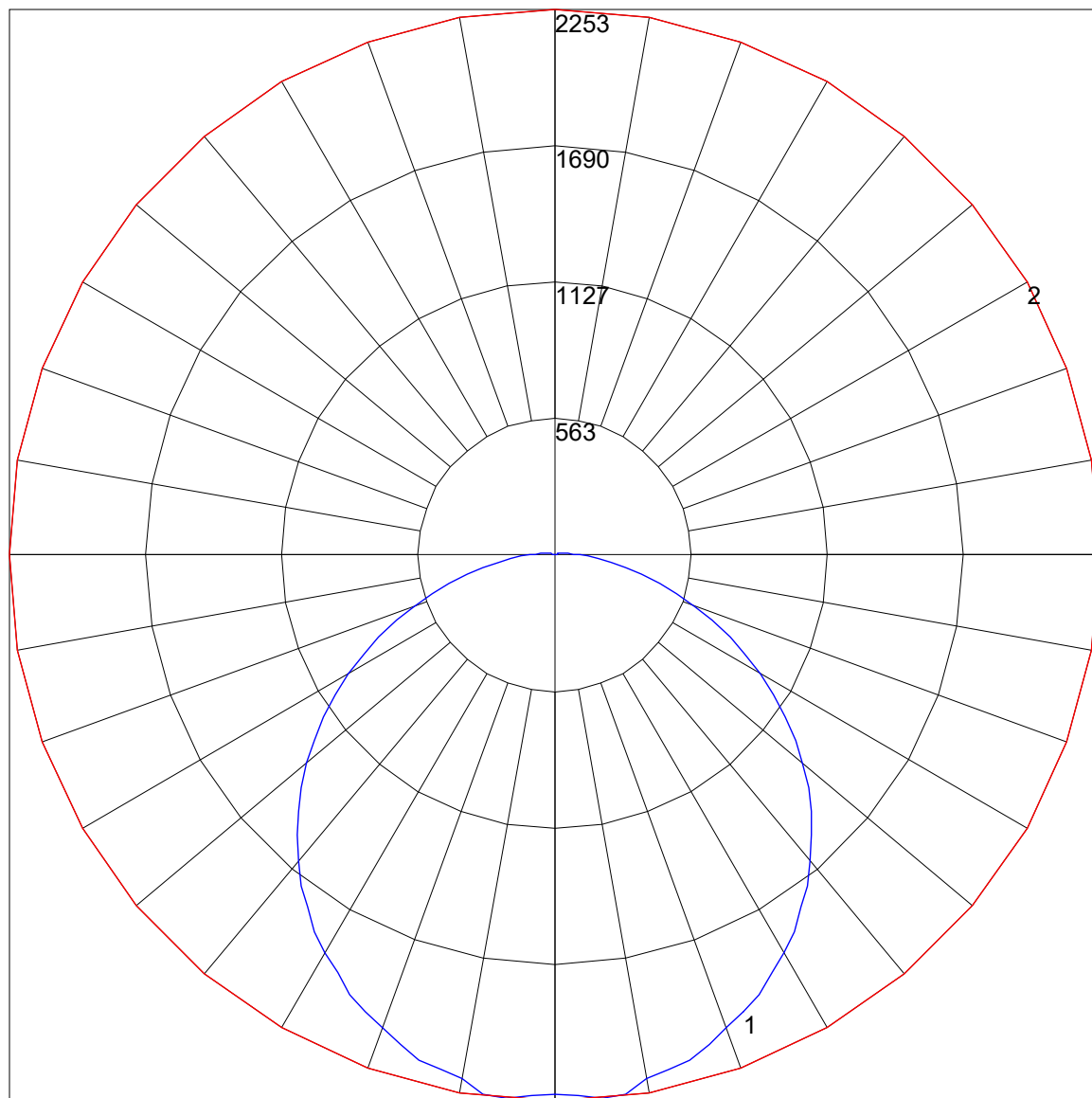
Reflectances

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	17.4	19.0	17.8	19.4	19.7	18.4	20.0	18.8	20.4	20.8
	3H	18.9	20.3	19.3	20.7	21.1	20.2	21.6	20.6	22.0	22.4
	4H	19.4	20.7	19.8	21.1	21.6	20.8	22.2	21.3	22.6	23.0
	6H	19.7	21.0	20.2	21.4	21.8	21.4	22.6	21.8	23.1	23.5
	8H	19.8	21.0	20.3	21.5	21.9	21.6	22.8	22.0	23.2	23.7
	12H	19.9	21.1	20.4	21.5	22.0	21.7	22.9	22.2	23.3	23.8
4H	2H	18.0	19.4	18.4	19.8	20.2	18.8	20.2	19.3	20.6	21.0
	3H	19.7	20.8	20.1	21.3	21.7	20.8	21.9	21.2	22.4	22.8
	4H	20.3	21.3	20.7	21.8	22.3	21.5	22.6	22.0	23.1	23.5
	6H	20.7	21.7	21.2	22.1	22.6	22.2	23.1	22.7	23.6	24.1
	8H	20.9	21.7	21.4	22.2	22.7	22.4	23.3	22.9	23.8	24.3
	12H	21.0	21.8	21.5	22.3	22.8	22.7	23.4	23.2	24.0	24.5
8H	4H	20.6	21.4	21.1	21.9	22.4	21.7	22.6	22.2	23.1	23.6
	6H	21.1	21.8	21.7	22.4	22.9	22.5	23.2	23.0	23.7	24.2
	8H	21.3	22.0	21.9	22.5	23.0	22.8	23.4	23.3	24.0	24.5
	12H	21.5	22.1	22.1	22.6	23.2	23.1	23.6	23.6	24.2	24.8
12H	4H	20.6	21.4	21.1	21.9	22.4	21.7	22.5	22.2	23.0	23.5
	6H	21.2	21.8	21.7	22.3	22.9	22.5	23.1	23.0	23.6	24.2
	8H	21.4	22.0	22.0	22.5	23.1	22.8	23.4	23.4	23.9	24.5

Maximum UGR = 24.8

POLAR GRAPH



Maximum Candela = 2253.08 Located At Horizontal Angle = 0, Vertical Angle = 5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)