

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS100LED4HTVLOWT50120-277V\_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 12:07:00 2021

[TEST] 1

[MANUFAC] BEGHELLI

[LUMCAT] LINEAR - INDOOR / OUTDOOR LUMINAIRE

[LUMINAIRE] BS100LED4HTVLOWT50120-277V\_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	5208
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	174
Total Luminaire Watts	30
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.26
Spacing Criterion (90-270)	1.26
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	6835	5089	4734
55	6302	4272	3903
65	5614	3341	2986
75	4670	2253	1957
85	3842	1180	981

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CANDELA TABULATION

	<u>0</u>
0.0	1772.67
2.5	1768.63
5.0	1750.57
7.5	1763.37
10.0	1742.94
12.5	1713.73
15.0	1686.33
17.5	1671.43
20.0	1634.52
22.5	1598.97
25.0	1562.52
27.5	1533.43
30.0	1487.42
32.5	1448.11
35.0	1396.00
37.5	1349.05
40.0	1293.64
42.5	1239.08
45.0	1182.69
47.5	1117.39
50.0	1053.83
52.5	986.89
55.0	911.51
57.5	846.40
60.0	770.15
62.5	700.12
65.0	627.76
67.5	554.38
70.0	485.00
72.5	418.74
75.0	353.08
77.5	289.09
80.0	232.22
82.5	185.54
85.0	142.49
87.5	108.90
90.0	80.96
92.5	61.27
95.0	45.77
97.5	34.83
100.0	26.29
102.5	21.16
105.0	16.39
107.5	13.08
110.0	10.58
112.5	8.11
115.0	7.00
117.5	5.30
120.0	3.80
122.5	3.08
125.0	2.06
127.5	1.28
130.0	0.91
132.5	0.50

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**CANDELA TABULATION - (Cont.)**

<b>135.0</b>	0.21
<b>137.5</b>	0.09
<b>140.0</b>	0.02
<b>142.5</b>	0.02
<b>145.0</b>	0.00
<b>147.5</b>	0.00
<b>150.0</b>	0.00
<b>152.5</b>	0.00
<b>155.0</b>	0.00
<b>157.5</b>	0.00
<b>160.0</b>	0.00
<b>162.5</b>	0.00
<b>165.0</b>	0.00
<b>167.5</b>	0.00
<b>170.0</b>	0.00
<b>172.5</b>	0.00
<b>175.0</b>	0.00
<b>177.5</b>	0.00
<b>180.0</b>	0.00

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	645.33	N.A.	12.40
0-30	1367.33	N.A.	26.30
0-40	2241.86	N.A.	43.10
0-60	3969.54	N.A.	76.20
0-80	4964.99	N.A.	95.30
0-90	5126.68	N.A.	98.40
10-90	4959.00	N.A.	95.20
20-40	1596.53	N.A.	30.70
20-50	2506.45	N.A.	48.10
40-70	2348.69	N.A.	45.10
60-80	995.45	N.A.	19.10
70-80	374.44	N.A.	7.20
80-90	161.69	N.A.	3.10
90-110	71.72	N.A.	1.40
90-120	78.61	N.A.	1.50
90-130	80.60	N.A.	1.50
90-150	80.86	N.A.	1.60
90-180	80.86	N.A.	1.60
110-180	9.14	N.A.	0.20
0-180	5207.55	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	167.68
10-20	477.65
20-30	722.00
30-40	874.52
40-50	909.92
50-60	817.76
60-70	621.01
70-80	374.44
80-90	161.69
90-100	53.39
100-110	18.33
110-120	6.89
120-130	2.00
130-140	0.25
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

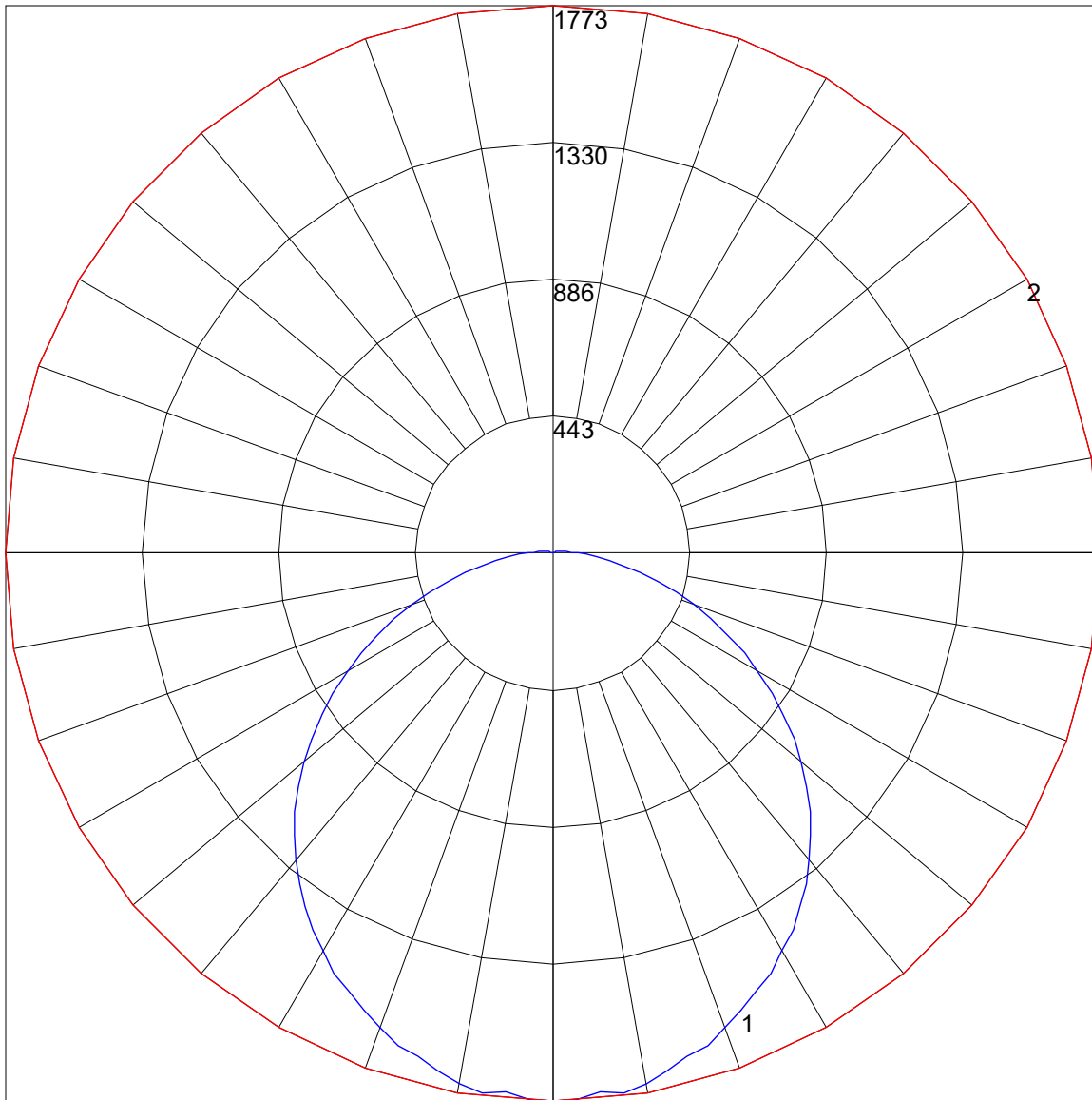
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**UGR TABLE - CORRECTED**

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	16.5	18.1	16.9	18.5	18.9	17.6	19.2	18.0	19.5	19.9
	3H	18.0	19.4	18.4	19.8	20.2	19.3	20.8	19.7	21.1	21.5
	4H	18.5	19.9	18.9	20.3	20.7	20.0	21.3	20.4	21.7	22.2
	6H	18.8	20.1	19.3	20.5	21.0	20.5	21.8	20.9	22.2	22.6
	8H	18.9	20.2	19.4	20.6	21.0	20.7	21.9	21.1	22.3	22.8
	12H	19.0	20.2	19.5	20.6	21.1	20.9	22.0	21.3	22.4	22.9
4H	2H	17.2	18.5	17.6	18.9	19.3	18.0	19.4	18.4	19.7	20.2
	3H	18.8	19.9	19.2	20.4	20.8	19.9	21.0	20.3	21.5	21.9
	4H	19.4	20.4	19.9	20.9	21.4	20.7	21.7	21.1	22.2	22.6
	6H	19.9	20.8	20.3	21.2	21.7	21.3	22.2	21.8	22.7	23.2
	8H	20.0	20.9	20.5	21.3	21.8	21.6	22.4	22.0	22.9	23.4
	12H	20.1	20.9	20.6	21.4	21.9	21.8	22.6	22.3	23.1	23.6
8H	4H	19.7	20.5	20.2	21.0	21.5	20.8	21.7	21.3	22.2	22.7
	6H	20.2	20.9	20.8	21.5	22.0	21.6	22.3	22.1	22.8	23.3
	8H	20.4	21.1	21.0	21.6	22.2	21.9	22.5	22.4	23.1	23.6
	12H	20.6	21.2	21.2	21.7	22.3	22.2	22.8	22.7	23.3	23.9
12H	4H	19.7	20.5	20.2	21.0	21.5	20.8	21.6	21.4	22.1	22.6
	6H	20.3	20.9	20.8	21.4	22.0	21.6	22.2	22.1	22.7	23.3
	8H	20.5	21.1	21.1	21.6	22.2	21.9	22.5	22.5	23.0	23.6

Maximum UGR = 23.9

POLAR GRAPH



Maximum Candela = 1772.67 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)