

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS100LED2HTLOWT50120-277V\_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] Mon Apr 12 10:24:25 2021

[TEST] 1

[MANUFAC] BEGHELLI

[LUMCAT] LINEAR - INDOOR / OUTDOOR LUMINAIRE

[LUMINAIRE] BS100LED2HTLOWT50120-277V\_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	4635
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	154
Total Luminaire Watts	30
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.32
Spacing Criterion (90-270)	1.32
Spacing Criterion (Diagonal)	1.42
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	2.28 ft
Luminous Width (90-270)	0.55 ft
Luminous Height	0.32 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	11019	8359	7992
55	9996	6981	6602
65	8657	5414	5054
75	6919	3658	3358
85	5010	1925	1724

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CANDELA TABULATION

	<u>0</u>
0.0	1495.16
2.5	1569.16
5.0	1564.22
7.5	1549.02
10.0	1537.14
12.5	1499.47
15.0	1497.69
17.5	1466.51
20.0	1442.38
22.5	1411.56
25.0	1378.23
27.5	1346.30
30.0	1309.23
32.5	1279.97
35.0	1233.24
37.5	1186.84
40.0	1144.13
42.5	1094.78
45.0	1044.16
47.5	989.53
50.0	929.20
52.5	874.10
55.0	808.44
57.5	747.64
60.0	681.99
62.5	622.26
65.0	558.64
67.5	498.55
70.0	436.95
72.5	379.27
75.0	319.83
77.5	264.82
80.0	217.03
82.5	170.92
85.0	132.86
87.5	101.99
90.0	77.71
92.5	58.90
95.0	44.65
97.5	34.94
100.0	27.78
102.5	21.70
105.0	18.43
107.5	15.21
110.0	12.43
112.5	10.52
115.0	8.90
117.5	6.68
120.0	5.50
122.5	4.37
125.0	3.48
127.5	2.65
130.0	1.97
132.5	1.44

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**CANDELA TABULATION - (Cont.)**

<b>135.0</b>	0.93
<b>137.5</b>	0.58
<b>140.0</b>	0.43
<b>142.5</b>	0.25
<b>145.0</b>	0.11
<b>147.5</b>	0.12
<b>150.0</b>	0.14
<b>152.5</b>	0.21
<b>155.0</b>	0.29
<b>157.5</b>	0.39
<b>160.0</b>	0.47
<b>162.5</b>	0.39
<b>165.0</b>	0.53
<b>167.5</b>	0.59
<b>170.0</b>	0.70
<b>172.5</b>	0.63
<b>175.0</b>	0.65
<b>177.5</b>	0.62
<b>180.0</b>	2.26

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	568.76	N.A.	12.30
0-30	1204.78	N.A.	26.00
0-40	1976.4	N.A.	42.60
0-60	3504.18	N.A.	75.60
0-80	4398.78	N.A.	94.90
0-90	4549.47	N.A.	98.20
10-90	4401.41	N.A.	95.00
20-40	1407.65	N.A.	30.40
20-50	2211.81	N.A.	47.70
40-70	2081.83	N.A.	44.90
60-80	894.59	N.A.	19.30
70-80	340.55	N.A.	7.30
80-90	150.69	N.A.	3.30
90-110	72.23	N.A.	1.60
90-120	80.98	N.A.	1.70
90-130	84.20	N.A.	1.80
90-150	85.15	N.A.	1.80
90-180	85.49	N.A.	1.80
110-180	13.26	N.A.	0.30
0-180	4634.96	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	148.06
10-20	420.70
20-30	636.03
30-40	771.62
40-50	804.17
50-60	723.62
60-70	554.04
70-80	340.55
80-90	150.69
90-100	52.22
100-110	20.01
110-120	8.75
120-130	3.22
130-140	0.82
140-150	0.12
150-160	0.13
160-170	0.14
170-180	0.07

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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	100	100	100	98
1	108	103	98	94	105	100	96	92	96	92	89	91	89	86	87	85	83	81
2	98	89	82	76	95	87	81	75	83	78	73	80	75	71	76	73	69	67
3	89	78	70	63	86	76	69	62	73	66	61	70	64	60	67	63	58	56
4	81	69	60	53	79	68	59	53	65	58	52	62	56	51	60	55	50	48
5	75	62	53	46	73	60	52	45	58	51	45	56	49	44	54	48	43	41
6	69	56	46	40	67	54	46	40	52	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	35	46	39	34	45	38	34	32
8	60	46	37	31	58	45	37	31	44	36	31	42	35	31	41	35	30	28
9	56	42	34	28	54	41	33	28	40	33	28	39	32	28	38	32	27	25
10	52	39	31	26	51	38	31	25	37	30	25	36	30	25	35	29	25	23

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**UGR TABLE - CORRECTED**

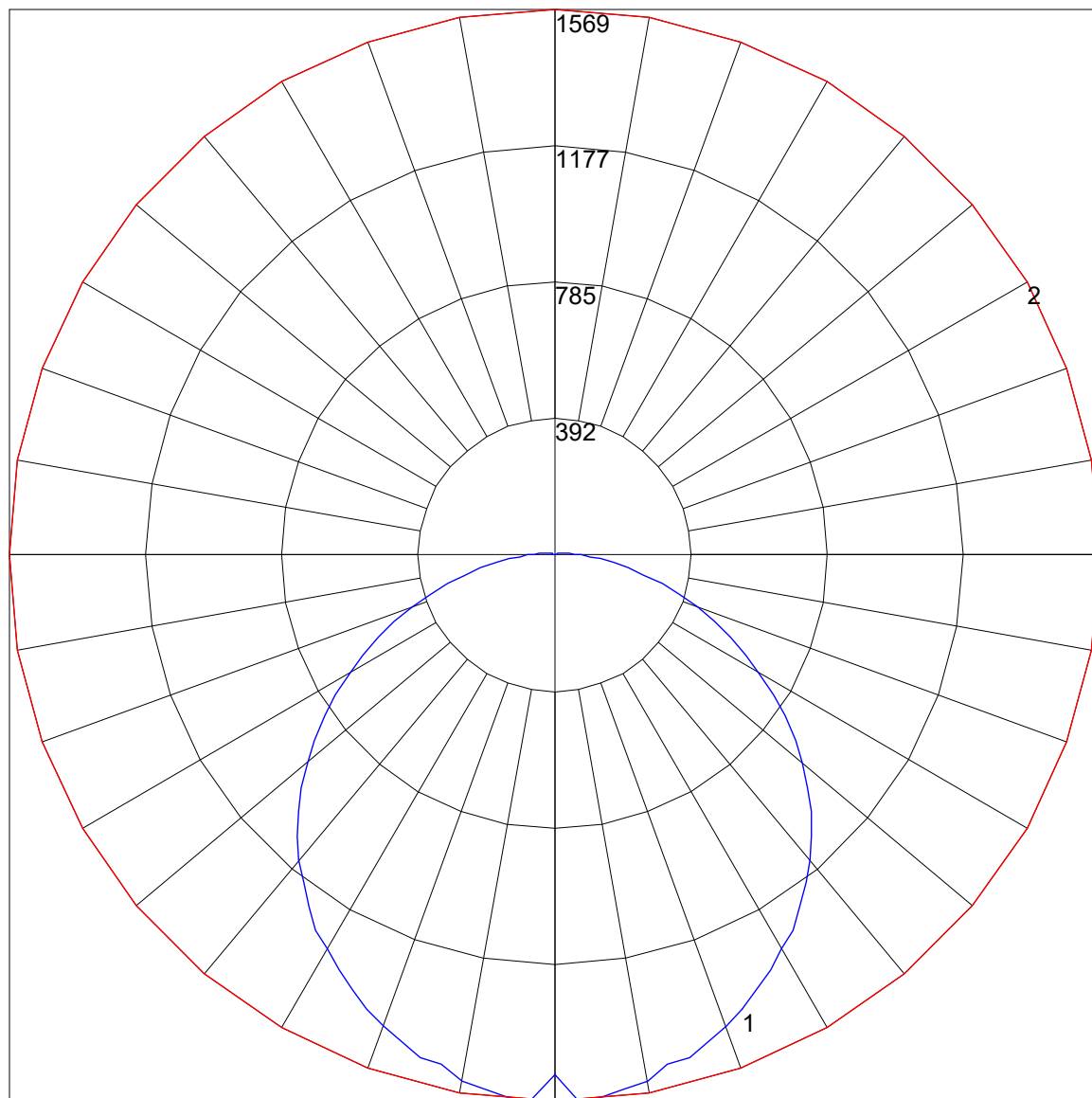
Reflectances

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	18.3	19.9	18.7	20.2	20.6	19.1	20.8	19.5	21.1	21.5
	3H	19.8	21.2	20.2	21.6	22.0	20.9	22.3	21.3	22.7	23.1
	4H	20.3	21.7	20.7	22.1	22.5	21.5	22.9	22.0	23.3	23.7
	6H	20.6	21.9	21.1	22.3	22.8	22.0	23.3	22.5	23.7	24.2
	8H	20.8	22.0	21.2	22.4	22.9	22.2	23.5	22.7	23.9	24.3
	12H	20.8	22.0	21.3	22.4	22.9	22.4	23.6	22.8	24.0	24.5
4H	2H	18.9	20.2	19.3	20.6	21.0	19.6	21.0	20.0	21.3	21.8
	3H	20.5	21.7	21.0	22.1	22.6	21.5	22.7	21.9	23.1	23.5
	4H	21.2	22.2	21.6	22.7	23.2	22.3	23.3	22.7	23.8	24.2
	6H	21.7	22.6	22.1	23.1	23.6	22.9	23.8	23.4	24.3	24.8
	8H	21.8	22.7	22.3	23.2	23.7	23.1	24.0	23.6	24.5	25.0
	12H	21.9	22.7	22.4	23.2	23.7	23.3	24.1	23.8	24.6	25.1
8H	4H	21.5	22.3	21.9	22.8	23.3	22.4	23.3	22.9	23.8	24.3
	6H	22.0	22.8	22.6	23.3	23.8	23.2	23.9	23.7	24.4	24.9
	8H	22.3	22.9	22.8	23.5	24.0	23.5	24.1	24.0	24.7	25.2
	12H	22.4	23.0	23.0	23.6	24.2	23.7	24.3	24.3	24.9	25.5
12H	4H	21.5	22.3	22.0	22.8	23.3	22.4	23.2	22.9	23.7	24.3
	6H	22.1	22.8	22.7	23.3	23.8	23.2	23.8	23.7	24.3	24.9
	8H	22.4	22.9	22.9	23.5	24.1	23.5	24.1	24.1	24.6	25.2

Maximum UGR = 25.5

POLAR GRAPH



Maximum Candela = 1569.16 Located At Horizontal Angle = 0, Vertical Angle = 2.5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)