



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS100LED2HTLOWT40120-277V\_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 10:21:04 2021  
 [TEST] 1  
 [MANUFAC] BEGHELLI  
 [LUMCAT]  
 [LUMINAIRE] BS100LED2HTLOWT40120-277V\_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	4381
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	146
Total Luminaire Watts	30
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.30
Spacing Criterion (90-270)	1.30
Spacing Criterion (Diagonal)	1.40
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	10432	7914	7566
55	9428	6584	6227
65	8191	5122	4782
75	6548	3462	3178
85	4749	1825	1634

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CANDELA TABULATION

	<u>0</u>
0.0	1431.02
2.5	1478.01
5.0	1454.53
7.5	1449.43
10.0	1431.92
12.5	1417.55
15.0	1400.12
17.5	1378.86
20.0	1359.14
22.5	1332.73
25.0	1310.47
27.5	1271.80
30.0	1240.12
32.5	1201.95
35.0	1168.56
37.5	1123.37
40.0	1081.39
42.5	1036.28
45.0	988.55
47.5	936.36
50.0	878.45
52.5	823.27
55.0	762.50
57.5	707.78
60.0	650.26
62.5	588.51
65.0	528.55
67.5	472.38
70.0	414.65
72.5	360.32
75.0	302.67
77.5	251.63
80.0	205.71
82.5	161.37
85.0	125.94
87.5	97.32
90.0	74.32
92.5	55.74
95.0	42.41
97.5	33.02
100.0	25.78
102.5	21.49
105.0	16.81
107.5	14.43
110.0	11.92
112.5	10.09
115.0	8.14
117.5	6.57
120.0	5.15
122.5	4.05
125.0	3.19
127.5	2.44
130.0	1.89
132.5	1.17

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**CANDELA TABULATION - (Cont.)**

<b>135.0</b>	0.73
<b>137.5</b>	0.55
<b>140.0</b>	0.29
<b>142.5</b>	0.19
<b>145.0</b>	0.12
<b>147.5</b>	0.09
<b>150.0</b>	0.15
<b>152.5</b>	0.16
<b>155.0</b>	0.32
<b>157.5</b>	0.36
<b>160.0</b>	0.50
<b>162.5</b>	0.39
<b>165.0</b>	0.44
<b>167.5</b>	0.47
<b>170.0</b>	0.56
<b>172.5</b>	0.26
<b>175.0</b>	0.52
<b>177.5</b>	0.89
<b>180.0</b>	0.50

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	533.61	N.A.	12.20
0-30	1135.4	N.A.	25.90
0-40	1864.48	N.A.	42.60
0-60	3309.29	N.A.	75.50
0-80	4157.47	N.A.	94.90
0-90	4300.41	N.A.	98.20
10-90	4162.01	N.A.	95.00
20-40	1330.87	N.A.	30.40
20-50	2091.78	N.A.	47.70
40-70	1969.88	N.A.	45.00
60-80	848.19	N.A.	19.40
70-80	323.11	N.A.	7.40
80-90	142.93	N.A.	3.30
90-110	68.48	N.A.	1.60
90-120	76.79	N.A.	1.80
90-130	79.78	N.A.	1.80
90-150	80.58	N.A.	1.80
90-180	80.88	N.A.	1.80
110-180	12.41	N.A.	0.30
0-180	4381.29	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	138.40
10-20	395.21
20-30	601.79
30-40	729.08
40-50	760.91
50-60	683.89
60-70	525.08
70-80	323.11
80-90	142.93
90-100	49.49
100-110	18.98
110-120	8.32
120-130	2.99
130-140	0.70
140-150	0.10
150-160	0.13
160-170	0.13
170-180	0.05

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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	88	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	62	58	56
4	81	69	60	53	79	68	59	53	65	58	52	62	56	51	60	54	50	48
5	75	62	53	46	72	60	52	45	58	51	45	56	49	44	54	48	43	41
6	69	55	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	44	38	34	32
8	59	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	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23

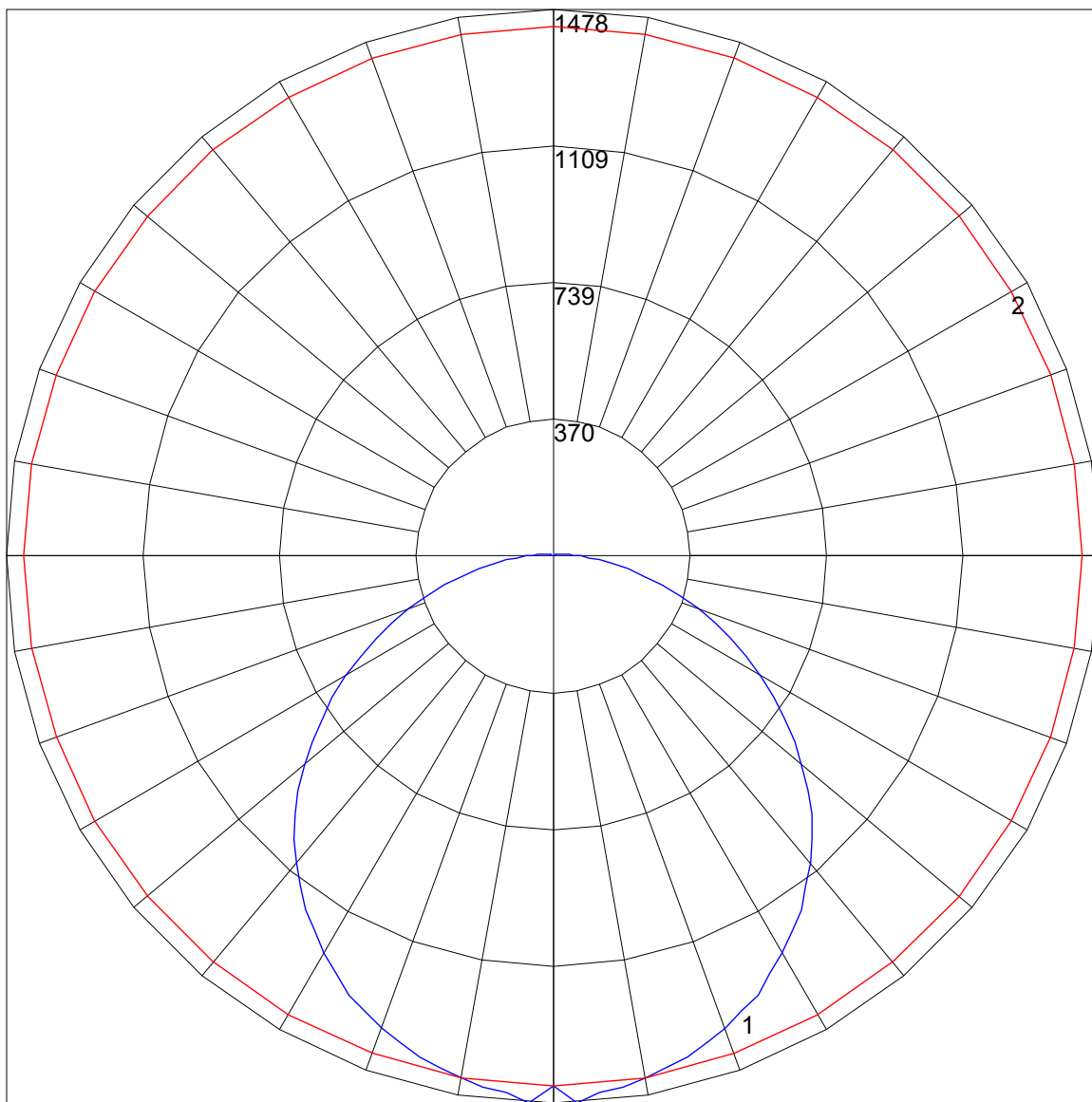
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**UGR TABLE - CORRECTED**

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	18.9	20.6	19.3	20.9	21.3	18.9	20.6	19.3	20.9	21.3
	3H	20.7	22.2	21.1	22.5	22.9	20.7	22.2	21.1	22.5	22.9
	4H	21.3	22.7	21.8	23.1	23.5	21.3	22.7	21.8	23.1	23.5
	6H	21.9	23.1	22.3	23.5	24.0	21.9	23.1	22.3	23.5	24.0
	8H	22.1	23.3	22.5	23.7	24.1	22.1	23.3	22.5	23.7	24.1
	12H	22.2	23.4	22.7	23.8	24.3	22.2	23.4	22.7	23.8	24.3
4H	2H	19.4	20.8	19.8	21.2	21.6	19.4	20.8	19.8	21.2	21.6
	3H	21.3	22.5	21.7	22.9	23.4	21.3	22.5	21.7	22.9	23.4
	4H	22.1	23.1	22.5	23.6	24.1	22.1	23.1	22.5	23.6	24.1
	6H	22.7	23.6	23.2	24.1	24.6	22.7	23.6	23.2	24.1	24.6
	8H	22.9	23.8	23.4	24.3	24.8	22.9	23.8	23.4	24.3	24.8
	12H	23.1	23.9	23.6	24.4	25.0	23.1	23.9	23.6	24.4	25.0
8H	4H	22.2	23.1	22.7	23.6	24.1	22.2	23.1	22.7	23.6	24.1
	6H	23.0	23.7	23.5	24.2	24.7	23.0	23.7	23.5	24.2	24.7
	8H	23.3	23.9	23.8	24.5	25.0	23.3	23.9	23.8	24.5	25.0
	12H	23.6	24.1	24.1	24.7	25.3	23.6	24.1	24.1	24.7	25.3
12H	4H	22.2	23.0	22.8	23.6	24.1	22.2	23.0	22.8	23.6	24.1
	6H	23.0	23.7	23.6	24.2	24.7	23.0	23.7	23.6	24.2	24.7
	8H	23.3	23.9	23.9	24.4	25.1	23.3	23.9	23.9	24.4	25.1

Maximum UGR = 25.3

POLAR GRAPH



Maximum Candela = 1478.01 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 (0)