

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS100LED4HTMOWT40120-277V\_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 12:50:02 2021

[TEST] 1

[MANUFAC] BEGHELLI

[LUMCAT] LINEAR - INDOOR / OUTDOOR LUMINAIRE

[LUMINAIRE] BS100LED4HTMOWT40120-277V\_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	7831
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	157
Total Luminaire Watts	50
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.40
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	10252	7634	7102
55	9515	6449	5892
65	8418	5010	4478
75	6960	3358	2916
85	5730	1761	1463

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CANDELA TABULATION

	<u>0</u>
0.0	2632.92
2.5	2653.20
5.0	2632.18
7.5	2636.07
10.0	2601.01
12.5	2582.97
15.0	2536.61
17.5	2510.05
20.0	2479.49
22.5	2417.60
25.0	2369.66
27.5	2309.24
30.0	2241.61
32.5	2179.36
35.0	2106.09
37.5	2032.37
40.0	1956.59
42.5	1864.62
45.0	1774.15
47.5	1682.84
50.0	1571.72
52.5	1477.09
55.0	1376.18
57.5	1262.05
60.0	1158.80
62.5	1046.20
65.0	941.26
67.5	833.26
70.0	734.00
72.5	627.97
75.0	526.19
77.5	434.93
80.0	350.42
82.5	276.75
85.0	212.54
87.5	162.33
90.0	122.75
92.5	91.22
95.0	68.54
97.5	52.08
100.0	39.37
102.5	30.91
105.0	24.65
107.5	20.16
110.0	16.16
112.5	12.77
115.0	9.97
117.5	8.32
120.0	6.16
122.5	4.37
125.0	3.08
127.5	2.00
130.0	1.14
132.5	0.71

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**CANDELA TABULATION - (Cont.)**

<b>135.0</b>	0.31
<b>137.5</b>	0.12
<b>140.0</b>	0.04
<b>142.5</b>	0.01
<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	969.81	N.A.	12.40
0-30	2061.04	N.A.	26.30
0-40	3379.38	N.A.	43.20
0-60	5972.94	N.A.	76.30
0-80	7467.27	N.A.	95.40
0-90	7709.24	N.A.	98.50
10-90	7458.24	N.A.	95.20
20-40	2409.57	N.A.	30.80
20-50	3777.48	N.A.	48.20
40-70	3525.7	N.A.	45.00
60-80	1494.33	N.A.	19.10
70-80	562.19	N.A.	7.20
80-90	241.97	N.A.	3.10
90-110	107.45	N.A.	1.40
90-120	117.99	N.A.	1.50
90-130	120.97	N.A.	1.50
90-150	121.32	N.A.	1.50
90-180	121.32	N.A.	1.50
110-180	13.87	N.A.	0.20
0-180	7830.56	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	251.00
10-20	718.81
20-30	1091.23
30-40	1318.34
40-50	1367.91
50-60	1225.65
60-70	932.14
70-80	562.19
80-90	241.97
90-100	80.00
100-110	27.46
110-120	10.54
120-130	2.98
130-140	0.35
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	84	81
2	98	89	82	76	95	87	81	75	84	78	73	80	75	72	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	51	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	39	36
7	64	51	42	35	62	50	41	35	48	40	35	46	40	35	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**

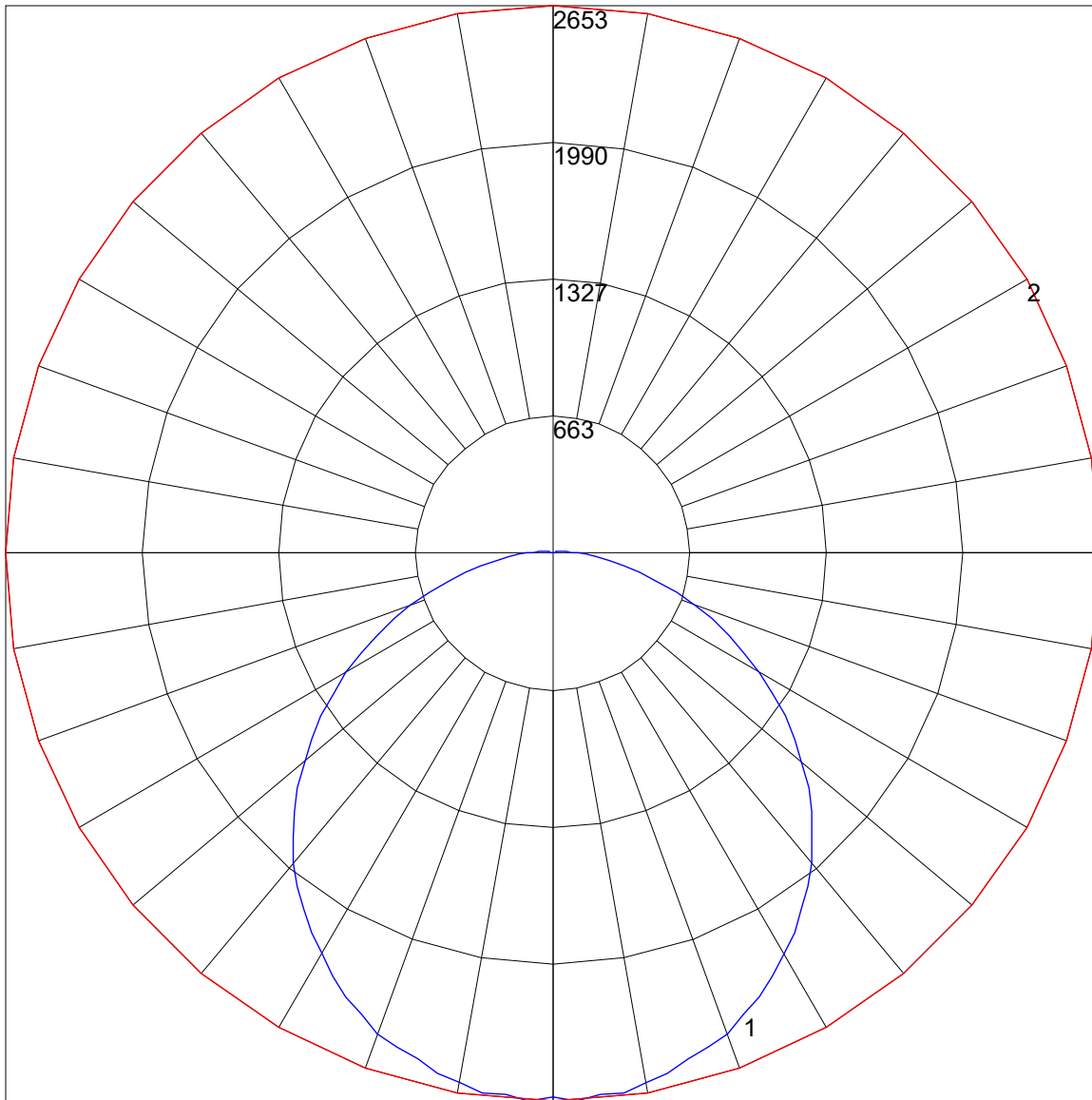
Reflectances

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	18.0	19.6	18.4	19.9	20.3	19.0	20.6	19.4	21.0	21.3
	3H	19.5	20.9	19.9	21.3	21.7	20.8	22.2	21.2	22.6	23.0
	4H	20.0	21.3	20.4	21.7	22.1	21.4	22.8	21.9	23.2	23.6
	6H	20.3	21.6	20.8	22.0	22.4	22.0	23.2	22.4	23.6	24.1
	8H	20.4	21.6	20.9	22.1	22.5	22.1	23.4	22.6	23.8	24.2
	12H	20.5	21.6	20.9	22.1	22.5	22.3	23.5	22.8	23.9	24.4
4H	2H	18.6	20.0	19.0	20.4	20.8	19.4	20.8	19.9	21.2	21.6
	3H	20.3	21.4	20.7	21.9	22.3	21.4	22.5	21.8	23.0	23.4
	4H	20.9	21.9	21.3	22.4	22.8	22.1	23.2	22.6	23.6	24.1
	6H	21.3	22.2	21.8	22.7	23.2	22.8	23.7	23.3	24.2	24.7
	8H	21.5	22.3	22.0	22.8	23.3	23.0	23.9	23.5	24.4	24.9
	12H	21.6	22.4	22.1	22.9	23.4	23.3	24.0	23.8	24.5	25.1
8H	4H	21.2	22.0	21.6	22.5	23.0	22.3	23.2	22.8	23.6	24.2
	6H	21.7	22.4	22.2	22.9	23.5	23.0	23.7	23.6	24.3	24.8
	8H	21.9	22.6	22.4	23.1	23.6	23.3	24.0	23.9	24.5	25.1
	12H	22.1	22.7	22.6	23.2	23.8	23.7	24.2	24.2	24.7	25.4
12H	4H	21.2	22.0	21.7	22.5	23.0	22.3	23.1	22.8	23.6	24.1
	6H	21.8	22.4	22.3	22.9	23.5	23.1	23.7	23.6	24.2	24.8
	8H	22.0	22.6	22.6	23.1	23.7	23.4	24.0	23.9	24.5	25.1

Maximum UGR = 25.4

POLAR GRAPH



Maximum Candela = 2653.2 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.)