

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS100LED2HTMOWT30120-277V\_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)

[ISSUE DATE]

[TEST DATE] Mon Apr 12 10:30:49 2021

[TEST] 1

[MANUFAC] BEGHELLI

[LUMCAT] LINEAR - INDOOR / OUTDOOR LUMINAIRE

[LUMINAIRE] BS100LED2HTMOWT30120-277V\_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	5176
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	129
Total Luminaire Watts	40
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)	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	12226	9274	8867
55	11208	7827	7402
65	9673	6049	5647
75	7794	4121	3783
85	5575	2142	1918

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CANDELA TABULATION

	<u>0</u>
0.0	1733.98
2.5	1745.58
5.0	1756.46
7.5	1740.41
10.0	1710.78
12.5	1699.17
15.0	1664.57
17.5	1634.50
20.0	1607.36
22.5	1575.25
25.0	1546.72
27.5	1505.53
30.0	1466.24
32.5	1417.24
35.0	1373.43
37.5	1329.47
40.0	1275.32
42.5	1217.91
45.0	1158.53
47.5	1103.57
50.0	1040.09
52.5	974.56
55.0	906.43
57.5	837.28
60.0	763.49
62.5	695.97
65.0	624.21
67.5	557.00
70.0	487.68
72.5	421.22
75.0	360.30
77.5	295.88
80.0	241.17
82.5	190.12
85.0	147.83
87.5	114.72
90.0	87.22
92.5	65.30
95.0	50.07
97.5	39.15
100.0	31.07
102.5	24.83
105.0	20.89
107.5	16.65
110.0	13.86
112.5	11.70
115.0	9.51
117.5	7.79
120.0	6.36
122.5	4.85
125.0	3.90
127.5	2.79
130.0	2.24
132.5	1.48

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**CANDELA TABULATION - (Cont.)**

<b>135.0</b>	0.92
<b>137.5</b>	0.63
<b>140.0</b>	0.41
<b>142.5</b>	0.20
<b>145.0</b>	0.11
<b>147.5</b>	0.07
<b>150.0</b>	0.12
<b>152.5</b>	0.22
<b>155.0</b>	0.38
<b>157.5</b>	0.34
<b>160.0</b>	0.57
<b>162.5</b>	0.49
<b>165.0</b>	0.62
<b>167.5</b>	0.53
<b>170.0</b>	0.45
<b>172.5</b>	0.81
<b>175.0</b>	0.54
<b>177.5</b>	0.90
<b>180.0</b>	1.72

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	636.08	N.A.	12.30
0-30	1347.49	N.A.	26.00
0-40	2207.57	N.A.	42.70
0-60	3912.61	N.A.	75.60
0-80	4912.31	N.A.	94.90
0-90	5080.36	N.A.	98.20
10-90	4914.42	N.A.	94.90
20-40	1571.49	N.A.	30.40
20-50	2466.95	N.A.	47.70
40-70	2324.36	N.A.	44.90
60-80	999.69	N.A.	19.30
70-80	380.37	N.A.	7.30
80-90	168.06	N.A.	3.20
90-110	80.85	N.A.	1.60
90-120	90.60	N.A.	1.80
90-130	94.19	N.A.	1.80
90-150	95.16	N.A.	1.80
90-180	95.52	N.A.	1.80
110-180	14.67	N.A.	0.30
0-180	5175.89	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	165.94
10-20	470.14
20-30	711.41
30-40	860.09
40-50	895.46
50-60	809.58
60-70	619.32
70-80	380.37
80-90	168.06
90-100	58.35
100-110	22.50
110-120	9.75
120-130	3.59
130-140	0.86
140-150	0.10
150-160	0.14
160-170	0.15
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	36	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**

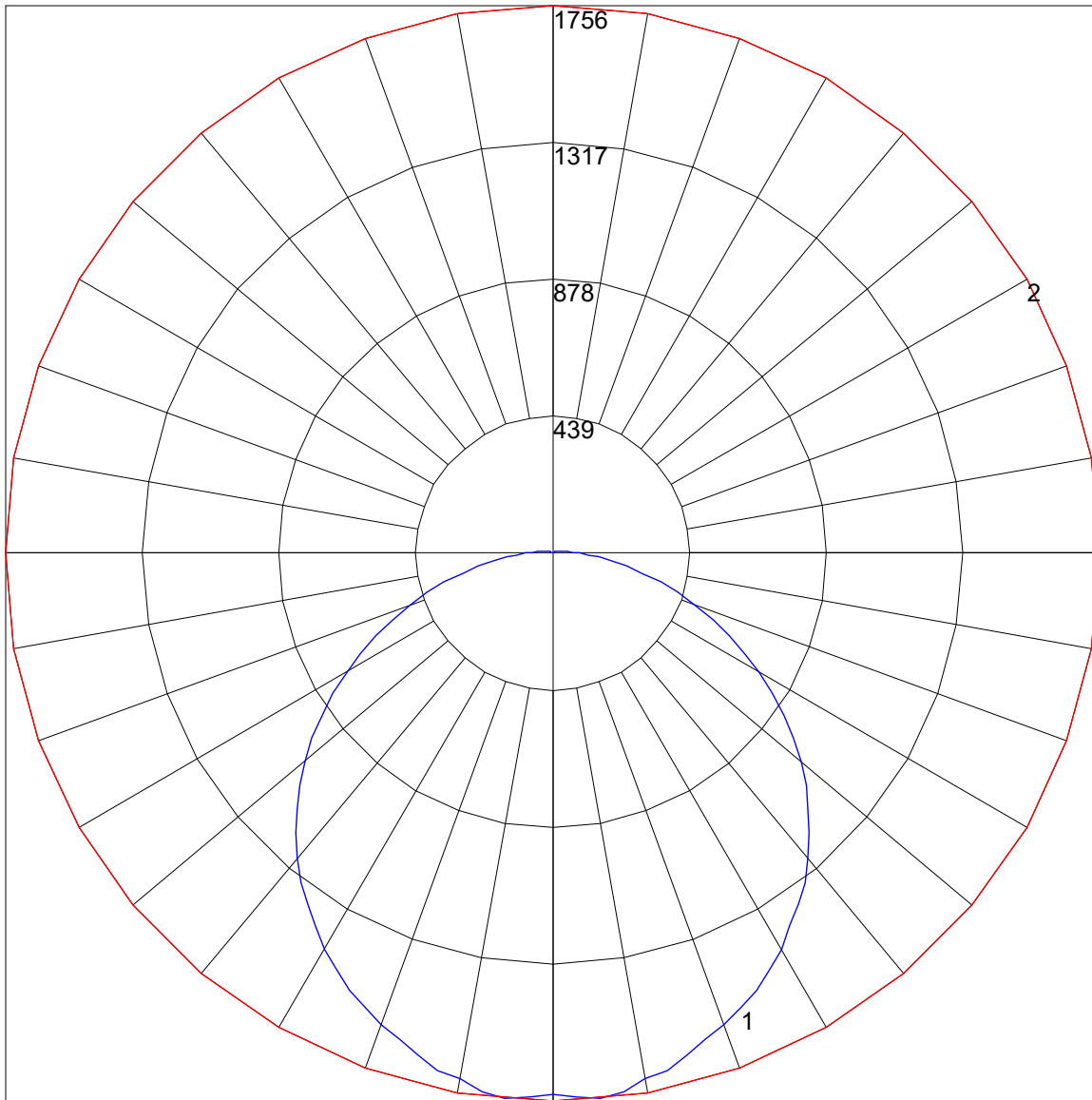
Reflectances

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	18.7	20.3	19.1	20.6	21.0	19.6	21.2	20.0	21.5	21.9
	3H	20.2	21.6	20.6	22.0	22.4	21.3	22.7	21.7	23.1	23.5
	4H	20.7	22.1	21.1	22.5	22.9	21.9	23.3	22.4	23.7	24.1
	6H	21.1	22.3	21.5	22.7	23.2	22.4	23.7	22.9	24.1	24.6
	8H	21.2	22.4	21.6	22.8	23.3	22.6	23.9	23.1	24.3	24.7
	12H	21.2	22.4	21.7	22.8	23.3	22.8	24.0	23.2	24.4	24.9
4H	2H	19.3	20.6	19.7	21.0	21.5	20.0	21.4	20.4	21.8	22.2
	3H	21.0	22.1	21.4	22.6	23.0	21.9	23.1	22.3	23.5	23.9
	4H	21.6	22.6	22.1	23.1	23.6	22.7	23.7	23.1	24.2	24.7
	6H	22.1	23.0	22.5	23.5	24.0	23.3	24.2	23.8	24.7	25.2
	8H	22.2	23.1	22.7	23.6	24.1	23.5	24.4	24.0	24.9	25.4
	12H	22.3	23.1	22.8	23.6	24.2	23.7	24.5	24.2	25.0	25.5
8H	4H	21.9	22.7	22.4	23.2	23.7	22.8	23.7	23.3	24.2	24.7
	6H	22.4	23.2	23.0	23.7	24.2	23.6	24.3	24.1	24.8	25.3
	8H	22.7	23.3	23.2	23.9	24.4	23.9	24.5	24.4	25.1	25.6
	12H	22.8	23.4	23.4	24.0	24.6	24.1	24.7	24.7	25.3	25.9
12H	4H	21.9	22.7	22.4	23.2	23.7	22.8	23.6	23.4	24.1	24.7
	6H	22.5	23.2	23.1	23.7	24.2	23.6	24.3	24.2	24.7	25.3
	8H	22.8	23.3	23.3	23.9	24.5	23.9	24.5	24.5	25.0	25.6

Maximum UGR = 25.9

POLAR GRAPH



Maximum Candela = 1756.46 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.)