

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS100LED2HTMOWT50120-277V\_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 10:54:53 2021

[TEST] 1

[MANUFAC] BEGHELLI

[LUMCAT] LINEAR - INDOOR / OUTDOOR LUMINAIRE

[LUMINAIRE] BS100LED2HTMOWT50120-277V\_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	6172
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	154
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	14732	11176	10685
55	13317	9299	8795
65	11563	7232	6751
75	9166	4846	4448
85	6723	2583	2313

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CANDELA TABULATION

	<u>0</u>
0.0	2093.63
2.5	2070.06
5.0	2072.71
7.5	2045.52
10.0	2038.39
12.5	2004.59
15.0	1988.01
17.5	1958.31
20.0	1920.29
22.5	1876.05
25.0	1837.00
27.5	1787.97
30.0	1752.57
32.5	1703.40
35.0	1639.14
37.5	1584.03
40.0	1527.66
42.5	1465.38
45.0	1396.03
47.5	1319.89
50.0	1238.53
52.5	1163.24
55.0	1076.95
57.5	997.13
60.0	911.69
62.5	823.08
65.0	746.19
67.5	660.07
70.0	581.91
72.5	501.49
75.0	423.70
77.5	354.25
80.0	286.80
82.5	227.57
85.0	178.27
87.5	135.89
90.0	103.01
92.5	77.83
95.0	58.53
97.5	45.52
100.0	36.57
102.5	28.92
105.0	24.13
107.5	20.16
110.0	16.84
112.5	13.79
115.0	11.30
117.5	8.63
120.0	7.36
122.5	6.02
125.0	4.47
127.5	3.35
130.0	2.37
132.5	1.53

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**CANDELA TABULATION - (Cont.)**

<b>135.0</b>	1.17
<b>137.5</b>	0.69
<b>140.0</b>	0.41
<b>142.5</b>	0.19
<b>145.0</b>	0.10
<b>147.5</b>	0.14
<b>150.0</b>	0.23
<b>152.5</b>	0.25
<b>155.0</b>	0.40
<b>157.5</b>	0.51
<b>160.0</b>	0.53
<b>162.5</b>	0.58
<b>165.0</b>	0.76
<b>167.5</b>	0.65
<b>170.0</b>	0.69
<b>172.5</b>	0.57
<b>175.0</b>	0.58
<b>177.5</b>	1.05
<b>180.0</b>	0.98

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	756.63	N.A.	12.30
0-30	1603.37	N.A.	26.00
0-40	2631.85	N.A.	42.60
0-60	4670.54	N.A.	75.70
0-80	5859.12	N.A.	94.90
0-90	6059.81	N.A.	98.20
10-90	5863.61	N.A.	95.00
20-40	1875.22	N.A.	30.40
20-50	2949.49	N.A.	47.80
40-70	2775.16	N.A.	45.00
60-80	1188.59	N.A.	19.30
70-80	452.12	N.A.	7.30
80-90	200.69	N.A.	3.30
90-110	95.23	N.A.	1.50
90-120	106.66	N.A.	1.70
90-130	110.90	N.A.	1.80
90-150	111.96	N.A.	1.80
90-180	112.38	N.A.	1.80
110-180	17.16	N.A.	0.30
0-180	6172.19	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	196.19
10-20	560.43
20-30	846.74
30-40	1028.48
40-50	1074.27
50-60	964.42
60-70	736.47
70-80	452.12
80-90	200.69
90-100	68.73
100-110	26.50
110-120	11.43
120-130	4.24
130-140	0.94
140-150	0.12
150-160	0.17
160-170	0.18
170-180	0.06

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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	67	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

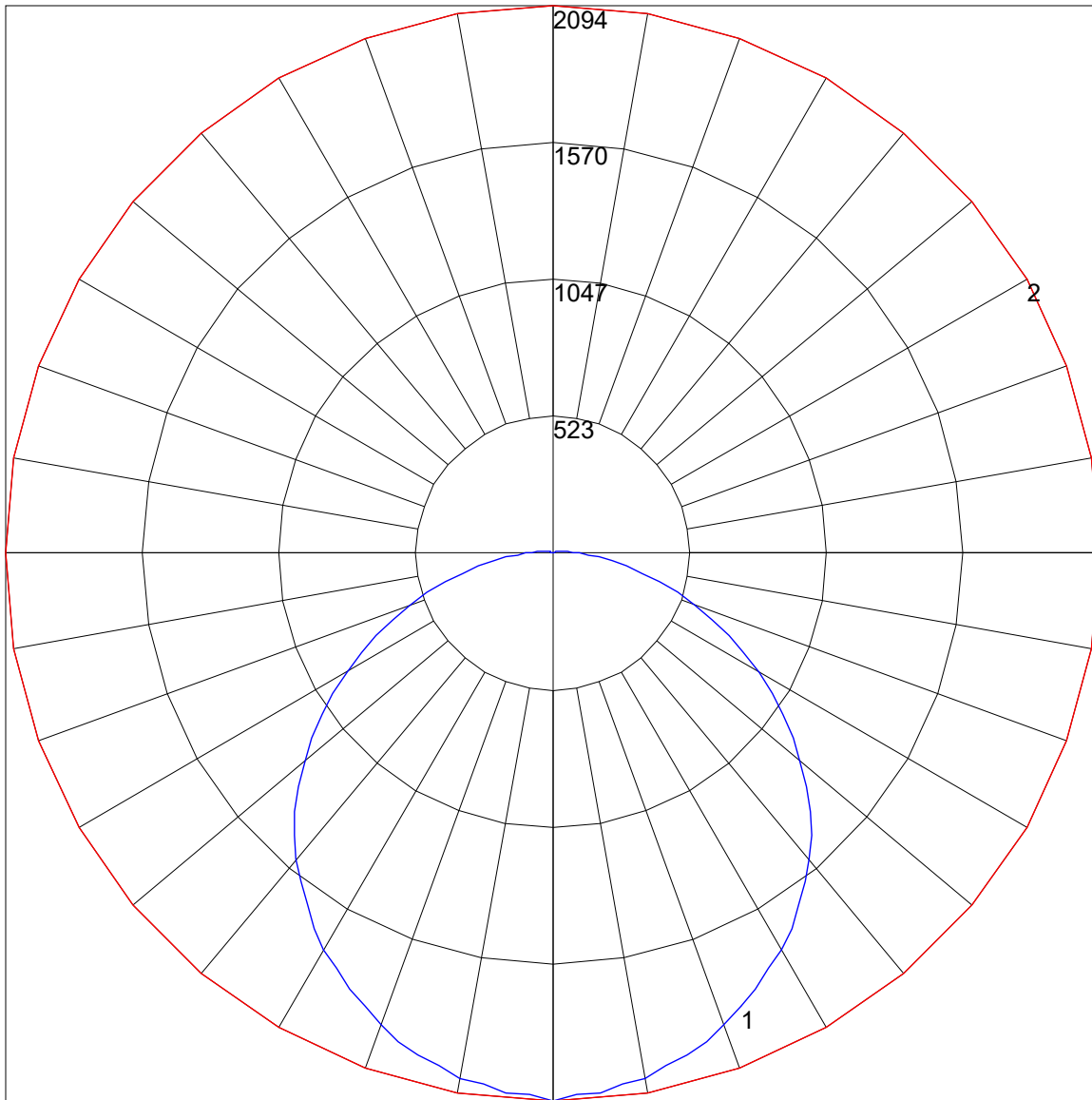
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**UGR TABLE - CORRECTED**

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	19.3	20.9	19.7	21.2	21.6	20.1	21.8	20.5	22.1	22.5
	3H	20.8	22.2	21.2	22.6	23.0	21.9	23.3	22.3	23.7	24.1
	4H	21.3	22.6	21.7	23.0	23.5	22.5	23.9	22.9	24.3	24.7
	6H	21.6	22.9	22.1	23.3	23.8	23.0	24.3	23.5	24.7	25.2
	8H	21.8	23.0	22.2	23.4	23.9	23.2	24.4	23.7	24.9	25.3
	12H	21.8	23.0	22.3	23.4	23.9	23.4	24.5	23.8	25.0	25.4
4H	2H	19.9	21.2	20.3	21.6	22.1	20.6	22.0	21.0	22.3	22.8
	3H	21.5	22.7	22.0	23.1	23.6	22.5	23.6	22.9	24.1	24.5
	4H	22.2	23.2	22.6	23.7	24.2	23.2	24.3	23.7	24.7	25.2
	6H	22.6	23.6	23.1	24.0	24.5	23.9	24.8	24.3	25.3	25.8
	8H	22.8	23.7	23.3	24.1	24.7	24.1	25.0	24.6	25.5	26.0
	12H	22.9	23.7	23.4	24.2	24.7	24.3	25.1	24.8	25.6	26.1
8H	4H	22.4	23.3	22.9	23.8	24.3	23.4	24.3	23.9	24.8	25.3
	6H	23.0	23.8	23.5	24.3	24.8	24.1	24.9	24.7	25.4	25.9
	8H	23.3	23.9	23.8	24.4	25.0	24.5	25.1	25.0	25.6	26.2
	12H	23.4	24.0	24.0	24.5	25.2	24.7	25.3	25.3	25.8	26.4
12H	4H	22.5	23.3	23.0	23.8	24.3	23.4	24.2	23.9	24.7	25.2
	6H	23.1	23.8	23.6	24.2	24.8	24.2	24.8	24.7	25.3	25.9
	8H	23.3	23.9	23.9	24.5	25.1	24.5	25.1	25.0	25.6	26.2

Maximum UGR = 26.4

POLAR GRAPH



Maximum Candela = 2093.63 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.)