



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS100LED2SAWT40120-277V\_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 11:13:47 2021  
 [TEST] 1  
 [MANUFACTURER] BEGHELLI  
 [LUMEN CATEGORY]  
 [LUMINAIRE] BS100LED2SAHOWT40120-277V\_S  
 [LAMP] LED 0.915W DURIS S5 (150mA)  
 [LAMP CATEGORY] GW PSLRS1.PC-LRLT-5L7N-1  
 [OTHER]

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1022
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	146
Total Luminaire Watts	7
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	2435	1847	1766
55	2201	1537	1453
65	1914	1197	1118
75	1546	818	751
85	1109	426	381

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CANDELA TABULATION

	<u>0</u>
0.0	348.300
2.5	342.916
5.0	343.759
7.5	338.317
10.0	335.563
12.5	331.677
15.0	329.365
17.5	321.731
20.0	317.975
22.5	309.719
25.0	303.920
27.5	297.597
30.0	290.067
32.5	281.723
35.0	271.181
37.5	263.117
40.0	252.022
42.5	242.179
45.0	230.716
47.5	217.365
50.0	205.192
52.5	192.420
55.0	177.964
57.5	164.564
60.0	151.011
62.5	137.683
65.0	123.535
67.5	109.945
70.0	96.450
72.5	83.674
75.0	71.488
77.5	58.474
80.0	47.113
82.5	37.773
85.0	29.403
87.5	22.637
90.0	17.217
92.5	12.971
95.0	9.986
97.5	7.720
100.0	6.063
102.5	4.792
105.0	3.993
107.5	3.332
110.0	2.815
112.5	2.314
115.0	1.821
117.5	1.536
120.0	1.271
122.5	1.002
125.0	0.722
127.5	0.580
130.0	0.409
132.5	0.308

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**CANDELA TABULATION - (Cont.)**

<b>135.0</b>	0.162
<b>137.5</b>	0.127
<b>140.0</b>	0.048
<b>142.5</b>	0.038
<b>145.0</b>	0.021
<b>147.5</b>	0.020
<b>150.0</b>	0.036
<b>152.5</b>	0.053
<b>155.0</b>	0.063
<b>157.5</b>	0.098
<b>160.0</b>	0.099
<b>162.5</b>	0.099
<b>165.0</b>	0.113
<b>167.5</b>	0.085
<b>170.0</b>	0.192
<b>172.5</b>	0.095
<b>175.0</b>	0.109
<b>177.5</b>	0.123
<b>180.0</b>	0.176

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	124.99	N.A.	12.20
0-30	265.25	N.A.	25.90
0-40	435.52	N.A.	42.60
0-60	772.37	N.A.	75.60
0-80	970.13	N.A.	94.90
0-90	1003.36	N.A.	98.20
10-90	970.91	N.A.	95.00
20-40	310.53	N.A.	30.40
20-50	487.93	N.A.	47.70
40-70	459.32	N.A.	44.90
60-80	197.76	N.A.	19.30
70-80	75.29	N.A.	7.40
80-90	33.23	N.A.	3.30
90-110	15.95	N.A.	1.60
90-120	17.87	N.A.	1.70
90-130	18.58	N.A.	1.80
90-150	18.77	N.A.	1.80
90-180	18.84	N.A.	1.80
110-180	2.89	N.A.	0.30
0-180	1022.2	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	32.45
10-20	92.54
20-30	140.27
30-40	170.26
40-50	177.40
50-60	159.46
60-70	122.46
70-80	75.29
80-90	33.23
90-100	11.56
100-110	4.39
110-120	1.92
120-130	0.71
130-140	0.16
140-150	0.02
150-160	0.03
160-170	0.03
170-180	0.01

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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	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	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

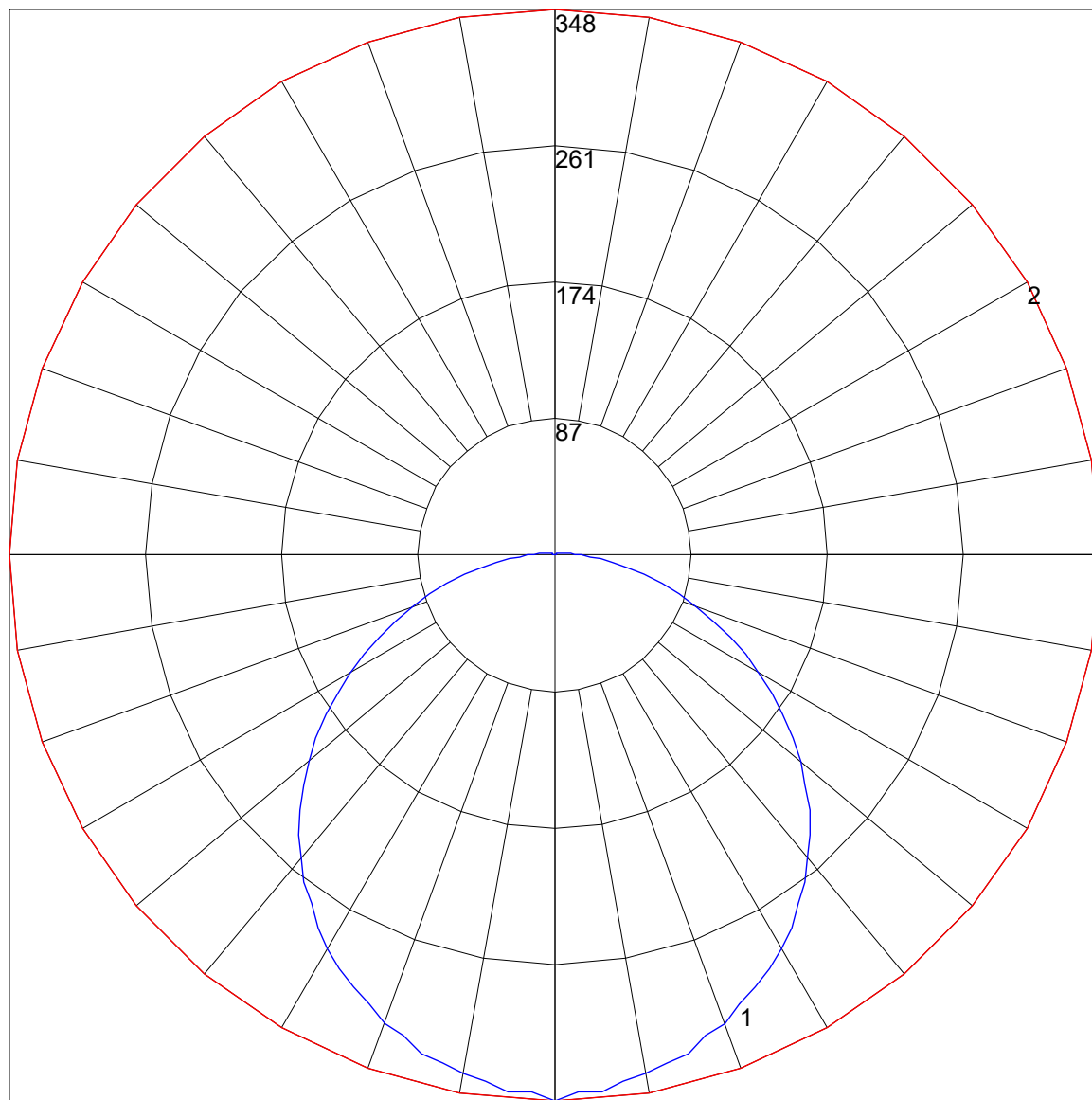
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**UGR TABLE - CORRECTED**

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	13.0	14.7	13.4	15.0	15.4	13.9	15.5	14.3	15.9	16.3
	3H	14.6	16.0	15.0	16.4	16.8	15.7	17.1	16.1	17.5	17.9
	4H	15.1	16.5	15.5	16.9	17.3	16.3	17.7	16.8	18.1	18.5
	6H	15.4	16.7	15.9	17.1	17.6	16.8	18.1	17.3	18.5	19.0
	8H	15.6	16.8	16.0	17.2	17.7	17.0	18.3	17.5	18.7	19.1
	12H	15.6	16.8	16.1	17.2	17.7	17.2	18.4	17.6	18.8	19.3
4H	2H	13.6	15.0	14.1	15.4	15.8	14.4	15.7	14.8	16.1	16.6
	3H	15.3	16.5	15.8	16.9	17.4	16.3	17.4	16.7	17.9	18.3
	4H	16.0	17.0	16.5	17.5	18.0	17.1	18.1	17.5	18.6	19.1
	6H	16.5	17.4	16.9	17.9	18.4	17.7	18.6	18.2	19.1	19.6
	8H	16.6	17.5	17.1	18.0	18.5	17.9	18.8	18.4	19.3	19.8
	12H	16.7	17.5	17.2	18.0	18.6	18.1	18.9	18.6	19.4	19.9
8H	4H	16.3	17.1	16.8	17.6	18.1	17.2	18.1	17.7	18.6	19.1
	6H	16.8	17.6	17.4	18.1	18.6	18.0	18.7	18.5	19.2	19.7
	8H	17.1	17.7	17.6	18.3	18.8	18.3	18.9	18.8	19.5	20.0
	12H	17.2	17.8	17.8	18.4	19.0	18.5	19.1	19.1	19.7	20.3
12H	4H	16.3	17.1	16.8	17.6	18.1	17.2	18.0	17.8	18.5	19.1
	6H	16.9	17.6	17.5	18.1	18.6	18.0	18.7	18.5	19.1	19.7
	8H	17.2	17.7	17.7	18.3	18.9	18.3	18.9	18.9	19.4	20.0

Maximum UGR = 20.3

POLAR GRAPH



Maximum Candela = 348.3 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)