



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS101LED4SAWT40120-277V\_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] Wed Apr 14 15:42:32 2021  
 [TEST] 1  
 [MANUFAC] BEGHELLI  
 [LUMCAT]  
 [LUMINAIRE] BS101LED4SAWT40120-277V\_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	1633
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	163
Total Luminaire Watts	10
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.34
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.12 ft
Luminous Width (90-270)	0.39 ft
Luminous Height	0.26 ft

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3208	2233	1996
55	2871	1764	1664
65	2274	1393	1470
75	1529	1045	1027
85	861	607	513

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**CANDELA TABULATION**

	<u>0</u>	<u>15</u>	<u>30</u>	<u>45</u>	<u>60</u>	<u>75</u>	<u>90</u>	<u>105</u>	<u>120</u>	<u>135</u>
<b>0</b>	574.63	574.63	574.63	574.63	574.63	574.63	574.63	574.63	574.63	574.63
<b>5</b>	557.40	571.77	551.52	554.46	571.49	574.18	580.71	571.12	576.17	557.86
<b>10</b>	535.20	542.32	557.15	553.03	560.21	562.54	564.28	564.99	566.24	559.92
<b>15</b>	517.51	528.20	534.24	540.39	553.15	557.56	563.42	552.53	546.78	535.96
<b>20</b>	500.15	510.23	519.54	527.51	531.86	537.14	537.33	538.84	531.72	526.06
<b>25</b>	478.98	489.94	497.76	509.63	510.93	515.90	513.76	508.66	515.20	507.02
<b>30</b>	460.13	467.18	470.73	486.94	482.66	475.91	473.66	482.51	475.77	481.02
<b>35</b>	426.53	435.61	443.53	447.24	443.25	440.92	440.55	441.96	442.42	451.42
<b>40</b>	397.16	404.75	410.33	405.27	399.12	397.30	400.07	396.23	400.38	403.99
<b>45</b>	362.94	371.20	367.71	359.21	354.69	355.14	352.81	351.04	350.48	357.64
<b>50</b>	320.02	324.76	319.47	311.56	308.59	308.44	310.51	306.96	307.56	311.96
<b>55</b>	270.18	272.90	265.60	263.60	266.78	276.74	279.21	277.45	266.86	263.73
<b>60</b>	219.96	218.68	212.92	219.13	234.02	251.01	252.38	249.36	237.14	219.32
<b>65</b>	164.24	166.55	167.18	185.84	203.85	217.57	226.04	218.03	203.95	186.37
<b>70</b>	115.76	115.98	129.49	154.21	170.86	181.06	187.76	182.94	173.06	152.75
<b>75</b>	73.57	75.46	94.85	118.42	131.17	132.88	138.70	137.40	133.35	119.31
<b>80</b>	40.37	44.57	65.53	86.27	90.60	90.62	90.98	91.54	92.06	84.47
<b>85</b>	19.43	25.00	41.90	54.56	55.10	56.81	57.55	56.68	57.71	54.46
<b>90</b>	6.90	11.00	23.14	32.92	34.41	35.11	36.18	35.65	33.01	31.43
<b>95</b>	3.00	5.95	14.07	19.83	23.99	23.73	25.28	24.26	22.81	19.96
<b>100</b>	1.66	3.40	8.46	13.33	16.92	18.75	19.75	18.48	17.51	13.55
<b>105</b>	1.47	2.03	5.70	9.77	13.75	15.63	16.22	15.27	13.62	9.94
<b>110</b>	0.81	1.33	3.53	8.08	11.40	13.83	14.70	13.76	11.74	7.60
<b>115</b>	1.02	0.92	2.16	6.07	9.12	12.19	13.25	11.49	9.83	5.57
<b>120</b>	0.88	0.58	1.54	3.84	7.56	9.83	10.79	10.00	7.38	4.26
<b>125</b>	0.35	0.39	0.93	2.66	5.18	7.09	8.26	7.30	5.02	2.70
<b>130</b>	0.36	0.28	0.30	1.42	3.36	5.13	5.57	4.85	3.63	1.34
<b>135</b>	0.17	0.14	0.06	0.76	2.11	3.11	3.25	3.08	2.08	0.67
<b>140</b>	0.15	0.08	0.06	0.21	1.03	1.60	1.69	1.56	0.98	0.35
<b>145</b>	0.00	0.00	0.01	0.04	0.18	0.56	0.72	0.55	0.23	0.00
<b>150</b>	0.00	0.00	0.00	0.02	0.02	0.10	0.11	0.11	0.02	0.00
<b>155</b>	0.04	0.02	0.00	0.00	0.00	0.00	0.02	0.08	0.00	0.02
<b>160</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>165</b>	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00
<b>170</b>	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00
<b>175</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>180</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Vert. Angles**      **Horizontal Angles**

	<u>150</u>	<u>165</u>	<u>180</u>
<b>0</b>	574.63	574.63	574.63
<b>5</b>	562.60	569.38	559.74
<b>10</b>	561.87	546.88	534.71
<b>15</b>	523.86	534.08	523.91
<b>20</b>	512.90	517.28	506.10
<b>25</b>	500.36	492.89	480.59
<b>30</b>	473.54	463.35	453.66
<b>35</b>	447.04	443.09	427.94
<b>40</b>	410.42	406.44	397.76
<b>45</b>	373.53	370.44	369.12
<b>50</b>	319.48	328.90	319.29
<b>55</b>	266.45	281.04	275.16
<b>60</b>	216.59	220.50	227.53

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**CANDELA TABULATION - (Cont.)**

<b>65</b>	165.79	167.31	170.17
<b>70</b>	127.53	116.37	116.53
<b>75</b>	94.56	75.51	74.94
<b>80</b>	67.60	45.16	40.11
<b>85</b>	41.40	25.25	18.66
<b>90</b>	23.62	11.21	6.40
<b>95</b>	14.02	6.38	2.68
<b>100</b>	8.24	3.14	1.82
<b>105</b>	5.66	1.84	1.18
<b>110</b>	3.66	1.37	0.93
<b>115</b>	2.64	0.96	0.85
<b>120</b>	1.70	0.69	0.79
<b>125</b>	0.71	0.52	0.44
<b>130</b>	0.38	0.40	0.24
<b>135</b>	0.13	0.20	0.30
<b>140</b>	0.07	0.12	0.19
<b>145</b>	0.01	0.04	0.09
<b>150</b>	0.00	0.03	0.00
<b>155</b>	0.00	0.00	0.00
<b>160</b>	0.00	0.00	0.00
<b>165</b>	0.00	0.00	0.00
<b>170</b>	0.00	0.00	0.00
<b>175</b>	0.00	0.00	0.00
<b>180</b>	0.00	0.00	0.00

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	206.69	N.A.	12.70
0-30	438.23	N.A.	26.80
0-40	714.07	N.A.	43.70
0-60	1235.08	N.A.	75.60
0-80	1540.83	N.A.	94.30
0-90	1592.94	N.A.	97.50
10-90	1539.13	N.A.	94.20
20-40	507.38	N.A.	31.10
20-50	785.27	N.A.	48.10
40-70	709.09	N.A.	43.40
60-80	305.75	N.A.	18.70
70-80	117.67	N.A.	7.20
80-90	52.11	N.A.	3.20
90-110	29.73	N.A.	1.80
90-120	35.97	N.A.	2.20
90-130	39.13	N.A.	2.40
90-150	40.40	N.A.	2.50
90-180	40.41	N.A.	2.50
110-180	10.68	N.A.	0.70
0-180	1633.35	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	53.81
10-20	152.88
20-30	231.54
30-40	275.84
40-50	277.89
50-60	243.12
60-70	188.08
70-80	117.67
80-90	52.11
90-100	19.65
100-110	10.08
110-120	6.24
120-130	3.16
130-140	1.09
140-150	0.18
150-160	0.01
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	118	118	118	118	115	115	115	115	110	110	110	105	105	105	100	100	100	98
1	108	103	98	94	105	100	96	92	95	92	89	91	88	86	87	85	83	81
2	98	89	82	77	95	87	81	75	83	78	73	80	75	71	76	73	69	67
3	89	78	70	64	86	77	69	63	73	67	61	70	65	60	67	63	59	56
4	82	70	61	54	79	68	60	53	65	58	52	63	56	51	60	55	50	48
5	75	62	53	46	73	61	52	46	58	51	45	56	50	45	54	48	44	42
6	69	56	47	41	67	55	46	40	53	45	40	51	44	39	49	43	39	37
7	64	51	42	36	62	50	42	36	48	41	35	46	40	35	45	39	34	32
8	60	46	38	32	58	46	37	32	44	37	31	43	36	31	41	35	31	29
9	56	43	34	29	54	42	34	29	41	33	28	39	33	28	38	32	28	26
10	53	39	31	26	51	39	31	26	38	31	26	36	30	26	35	30	25	24

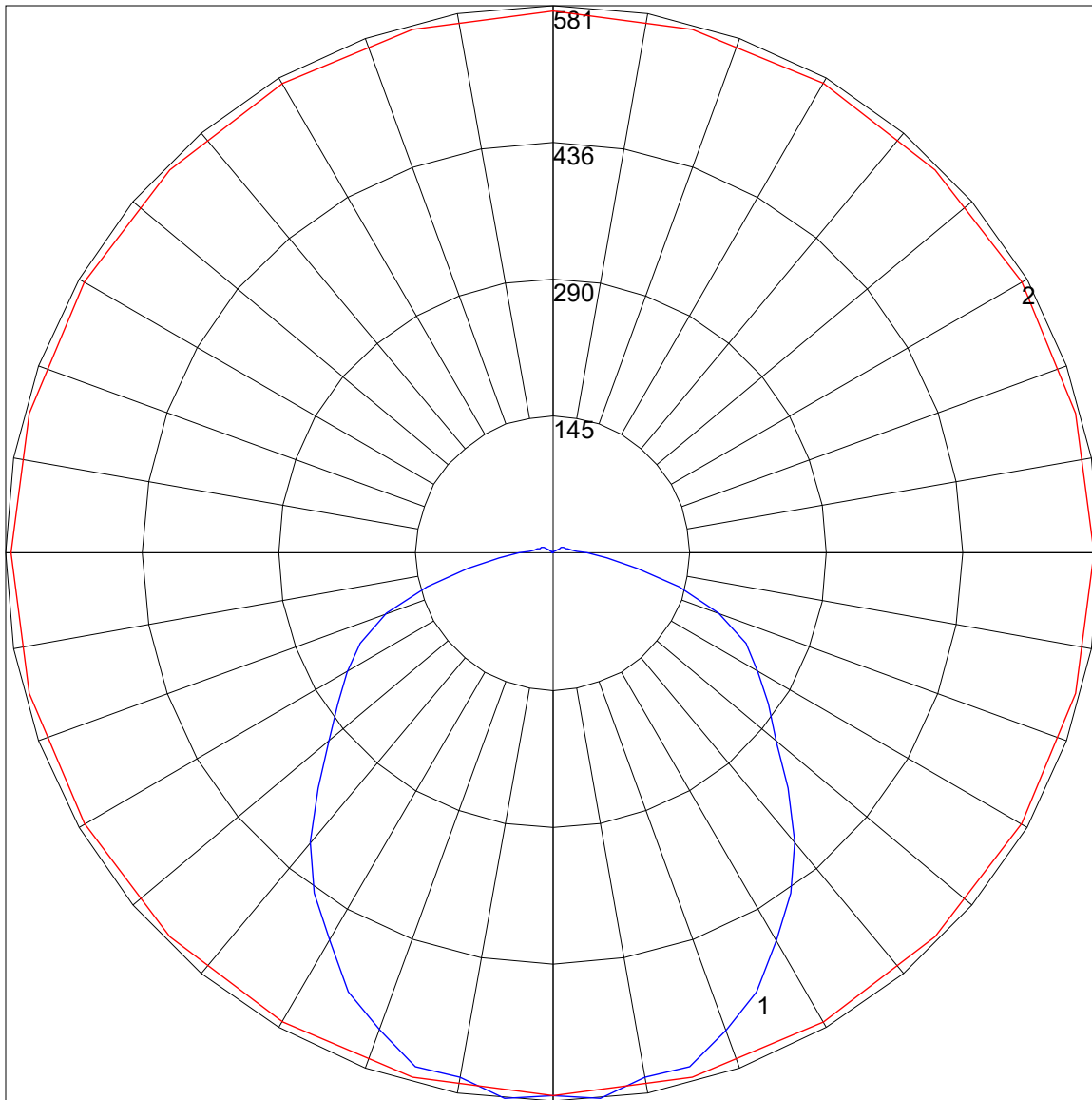
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**UGR TABLE - CORRECTED**

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	14.3	15.9	14.7	16.3	16.7	14.8	16.4	15.2	16.8	17.1
	3H	15.7	17.1	16.1	17.5	17.9	17.1	18.6	17.5	19.0	19.4
	4H	16.1	17.5	16.5	17.9	18.3	18.0	19.4	18.5	19.8	20.2
	6H	16.4	17.7	16.8	18.1	18.5	18.7	20.0	19.2	20.4	20.8
	8H	16.5	17.7	16.9	18.1	18.5	19.0	20.2	19.4	20.6	21.1
	12H	16.5	17.7	17.0	18.1	18.6	19.2	20.4	19.7	20.8	21.3
4H	2H	14.8	16.1	15.2	16.5	16.9	15.2	16.5	15.6	16.9	17.3
	3H	16.3	17.4	16.7	17.9	18.3	17.7	18.8	18.1	19.3	19.7
	4H	16.8	17.9	17.3	18.3	18.8	18.7	19.7	19.1	20.2	20.7
	6H	17.2	18.1	17.6	18.6	19.1	19.5	20.4	20.0	20.9	21.4
	8H	17.3	18.1	17.8	18.6	19.1	19.8	20.7	20.3	21.2	21.7
	12H	17.4	18.1	17.9	18.7	19.2	20.1	20.9	20.6	21.4	21.9
8H	4H	17.1	18.0	17.6	18.4	19.0	18.8	19.7	19.3	20.2	20.7
	6H	17.6	18.3	18.1	18.8	19.3	19.7	20.5	20.3	21.0	21.5
	8H	17.7	18.4	18.3	18.9	19.5	20.1	20.8	20.7	21.3	21.9
	12H	17.9	18.5	18.4	19.0	19.6	20.5	21.1	21.1	21.6	22.2
12H	4H	17.1	17.9	17.6	18.4	18.9	18.8	19.6	19.3	20.1	20.6
	6H	17.7	18.3	18.2	18.8	19.4	19.8	20.4	20.3	20.9	21.5
	8H	17.9	18.4	18.4	19.0	19.6	20.2	20.8	20.7	21.3	21.9

Maximum UGR = 22.2

POLAR GRAPH



Maximum Candela = 580.71 Located At Horizontal Angle = 90, Vertical Angle = 5  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (0)