

IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS100LED4SAWT40120-277V_S.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TESTLAB] Photopia 2020.1.0 see: www.ltioptics.com/ies

[ISSUEDATE]

[TESTDATE] Fri Apr 09 15:16:55 2021

[TEST] 1

[MANUFAC] BEGHELLI

[LUMCAT] LINEAR - INDOOR / OUTDOOR LUMINAIRE

[LUMINAIRE] BS100LED4SAWT40120-277V_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	1573
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	157
Total Luminaire Watts	10
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.38
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	2052	1528	1421
55	1908	1293	1182
65	1702	1013	905
75	1424	687	596
85	1158	356	296

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CANDELA TABULATION

	<u>0</u>
0.0	542.31
2.5	535.78
5.0	539.24
7.5	527.73
10.0	525.68
12.5	518.97
15.0	507.89
17.5	501.28
20.0	495.95
22.5	485.10
25.0	473.24
27.5	462.30
30.0	450.22
32.5	436.48
35.0	421.02
37.5	407.00
40.0	392.14
42.5	373.83
45.0	355.09
47.5	336.15
50.0	318.22
52.5	298.39
55.0	276.00
57.5	254.36
60.0	232.72
62.5	211.54
65.0	190.33
67.5	167.46
70.0	146.78
72.5	125.97
75.0	107.62
77.5	87.87
80.0	70.50
82.5	55.19
85.0	42.94
87.5	32.53
90.0	24.58
92.5	18.31
95.0	13.77
97.5	10.43
100.0	8.18
102.5	6.41
105.0	4.93
107.5	4.07
110.0	3.17
112.5	2.67
115.0	2.01
117.5	1.68
120.0	1.18
122.5	0.88
125.0	0.63
127.5	0.42
130.0	0.27
132.5	0.15

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CANDELA TABULATION - (Cont.)

135.0	0.07
137.5	0.03
140.0	0.02
142.5	0.00
145.0	0.00
147.5	0.00
150.0	0.00
152.5	0.00
155.0	0.00
157.5	0.00
160.0	0.00
162.5	0.00
165.0	0.00
167.5	0.00
170.0	0.00
172.5	0.00
175.0	0.00
177.5	0.00
180.0	0.00

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	194.78	N.A.	12.40
0-30	413.30	N.A.	26.30
0-40	677.32	N.A.	43.10
0-60	1198.43	N.A.	76.20
0-80	1499.71	N.A.	95.40
0-90	1548.25	N.A.	98.40
10-90	1497.51	N.A.	95.20
20-40	482.54	N.A.	30.70
20-50	756.73	N.A.	48.10
40-70	708.93	N.A.	45.10
60-80	301.28	N.A.	19.20
70-80	113.46	N.A.	7.20
80-90	48.55	N.A.	3.10
90-110	21.68	N.A.	1.40
90-120	23.81	N.A.	1.50
90-130	24.41	N.A.	1.60
90-150	24.49	N.A.	1.60
90-180	24.49	N.A.	1.60
110-180	2.81	N.A.	0.20
0-180	1572.75	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	50.75
10-20	144.03
20-30	218.52
30-40	264.02
40-50	274.19
50-60	246.92
60-70	187.82
70-80	113.46
80-90	48.55
90-100	16.08
100-110	5.60
110-120	2.13
120-130	0.60
130-140	0.08
140-150	0.00
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	83	81
2	98	89	82	76	95	87	81	75	83	78	73	80	75	71	77	73	70	67
3	89	78	70	63	86	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	50	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	38	36
7	64	50	42	35	62	50	41	35	48	40	35	46	40	34	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

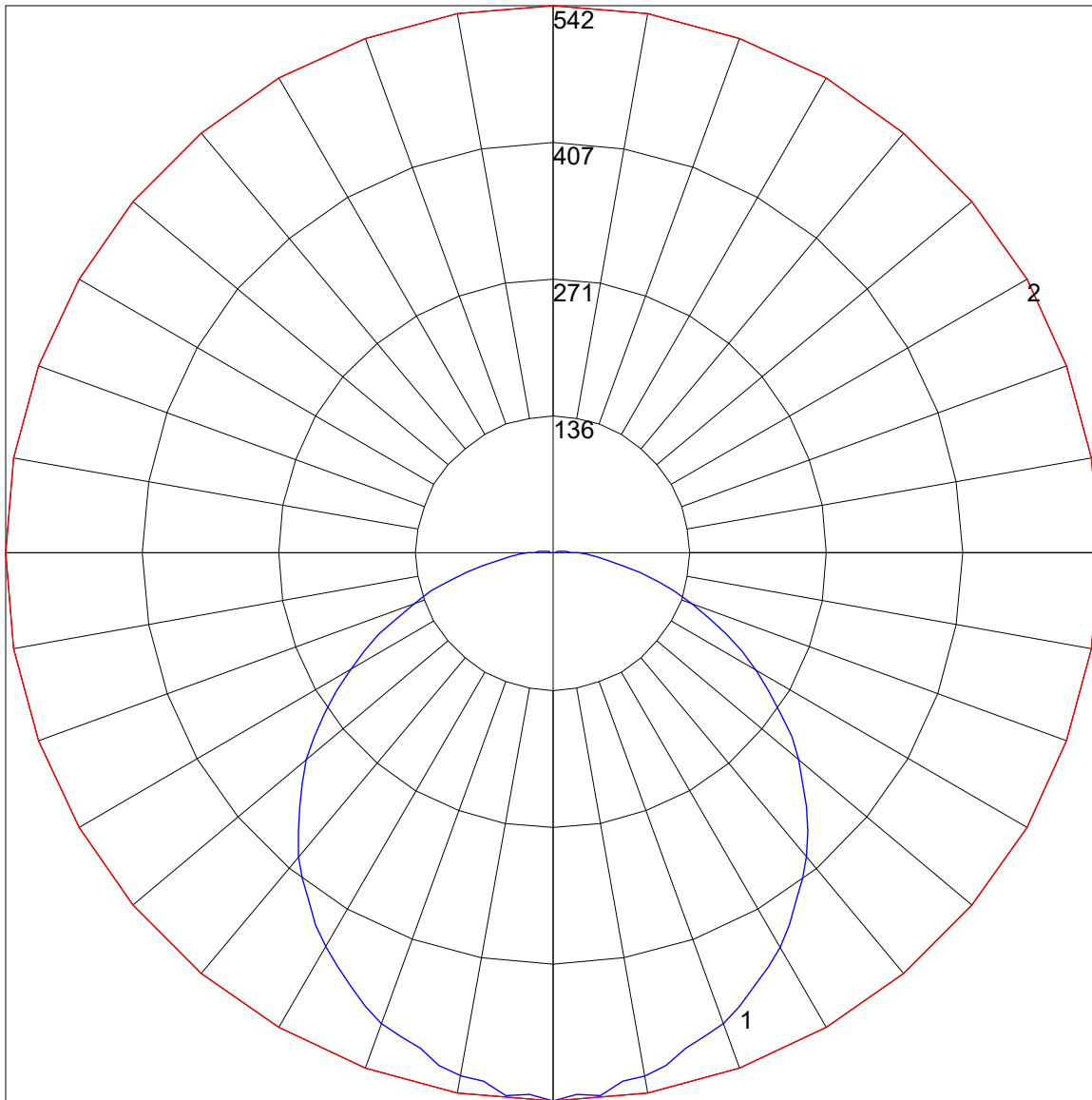
Reflectances

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	12.4	14.0	12.8	14.4	14.7	13.4	15.0	13.8	15.4	15.8
	3H	13.9	15.3	14.3	15.7	16.1	15.2	16.6	15.6	17.0	17.4
	4H	14.4	15.7	14.8	16.1	16.6	15.8	17.2	16.3	17.6	18.0
	6H	14.7	16.0	15.2	16.4	16.8	16.4	17.6	16.8	18.1	18.5
	8H	14.8	16.0	15.3	16.5	16.9	16.6	17.8	17.0	18.2	18.7
	12H	14.9	16.1	15.4	16.5	17.0	16.7	17.9	17.2	18.3	18.8
4H	2H	13.0	14.4	13.4	14.8	15.2	13.8	15.2	14.3	15.6	16.0
	3H	14.7	15.8	15.1	16.3	16.7	15.8	16.9	16.2	17.4	17.8
	4H	15.3	16.3	15.7	16.8	17.3	16.5	17.6	17.0	18.1	18.5
	6H	15.7	16.7	16.2	17.1	17.6	17.2	18.1	17.7	18.6	19.1
	8H	15.9	16.7	16.4	17.2	17.7	17.4	18.3	17.9	18.8	19.3
	12H	16.0	16.8	16.5	17.3	17.8	17.7	18.4	18.2	19.0	19.5
8H	4H	15.6	16.4	16.1	16.9	17.4	16.7	17.6	17.2	18.1	18.6
	6H	16.1	16.8	16.7	17.4	17.9	17.5	18.2	18.0	18.7	19.2
	8H	16.3	17.0	16.9	17.5	18.0	17.8	18.4	18.3	18.9	19.5
	12H	16.5	17.1	17.1	17.6	18.2	18.1	18.6	18.6	19.2	19.8
12H	4H	15.6	16.4	16.1	16.9	17.4	16.7	17.5	17.2	18.0	18.5
	6H	16.2	16.8	16.7	17.3	17.9	17.5	18.1	18.0	18.6	19.2
	8H	16.4	17.0	17.0	17.5	18.1	17.8	18.4	18.4	18.9	19.5

Maximum UGR = 19.8

POLAR GRAPH



Maximum Candela = 542.31 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.)