

IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS100LED4HTHOWT50120-277V_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 14:05:01 2021

[TEST] 1

[MANUFAC] BEGHELLI

[LUMCAT] LINEAR - INDOOR / OUTDOOR LUMINAIRE

[LUMINAIRE] BS100LED4HTHOWT50120-277V_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	9946
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	166
Total Luminaire Watts	60
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.32
Spacing Criterion (90-270)	1.32
Spacing Criterion (Diagonal)	1.42
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	13107	9759	9079
55	12079	8187	7480
65	10710	6373	5697
75	8797	4245	3686
85	7307	2245	1866

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CANDELA TABULATION

	<u>0</u>
0.0	3234.97
2.5	3425.71
5.0	3370.57
7.5	3340.62
10.0	3313.86
12.5	3246.62
15.0	3224.21
17.5	3177.74
20.0	3101.99
22.5	3047.57
25.0	2981.19
27.5	2913.16
30.0	2855.44
32.5	2765.43
35.0	2667.10
37.5	2578.78
40.0	2485.59
42.5	2379.69
45.0	2268.10
47.5	2147.59
50.0	2015.71
52.5	1885.61
55.0	1746.99
57.5	1612.24
60.0	1477.06
62.5	1335.18
65.0	1197.52
67.5	1061.15
70.0	924.87
72.5	796.82
75.0	665.09
77.5	553.14
80.0	443.67
82.5	347.93
85.0	271.02
87.5	205.05
90.0	154.45
92.5	116.10
95.0	86.29
97.5	66.39
100.0	51.41
102.5	39.96
105.0	31.62
107.5	25.33
110.0	20.56
112.5	16.54
115.0	12.46
117.5	9.88
120.0	7.76
122.5	5.47
125.0	3.52
127.5	2.81
130.0	1.54
132.5	1.01

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CANDELA TABULATION - (Cont.)

135.0	0.36
137.5	0.20
140.0	0.05
142.5	0.03
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	1228.21	N.A.	12.30
0-30	2604.16	N.A.	26.20
0-40	4277.19	N.A.	43.00
0-60	7587.09	N.A.	76.30
0-80	9485.5	N.A.	95.40
0-90	9791.45	N.A.	98.40
10-90	9471.71	N.A.	95.20
20-40	3048.98	N.A.	30.70
20-50	4795.46	N.A.	48.20
40-70	4496.27	N.A.	45.20
60-80	1898.41	N.A.	19.10
70-80	712.04	N.A.	7.20
80-90	305.95	N.A.	3.10
90-110	136.78	N.A.	1.40
90-120	150.03	N.A.	1.50
90-130	153.76	N.A.	1.50
90-150	154.25	N.A.	1.60
90-180	154.25	N.A.	1.60
110-180	17.47	N.A.	0.20
0-180	9945.7	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	319.74
10-20	908.47
20-30	1375.95
30-40	1673.03
40-50	1746.48
50-60	1563.42
60-70	1186.38
70-80	712.04
80-90	305.95
90-100	101.52
100-110	35.26
110-120	13.24
120-130	3.74
130-140	0.47
140-150	0.01
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	84	81
2	98	89	82	76	95	87	81	75	84	78	73	80	75	72	77	73	70	67
3	89	78	70	63	87	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	32	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

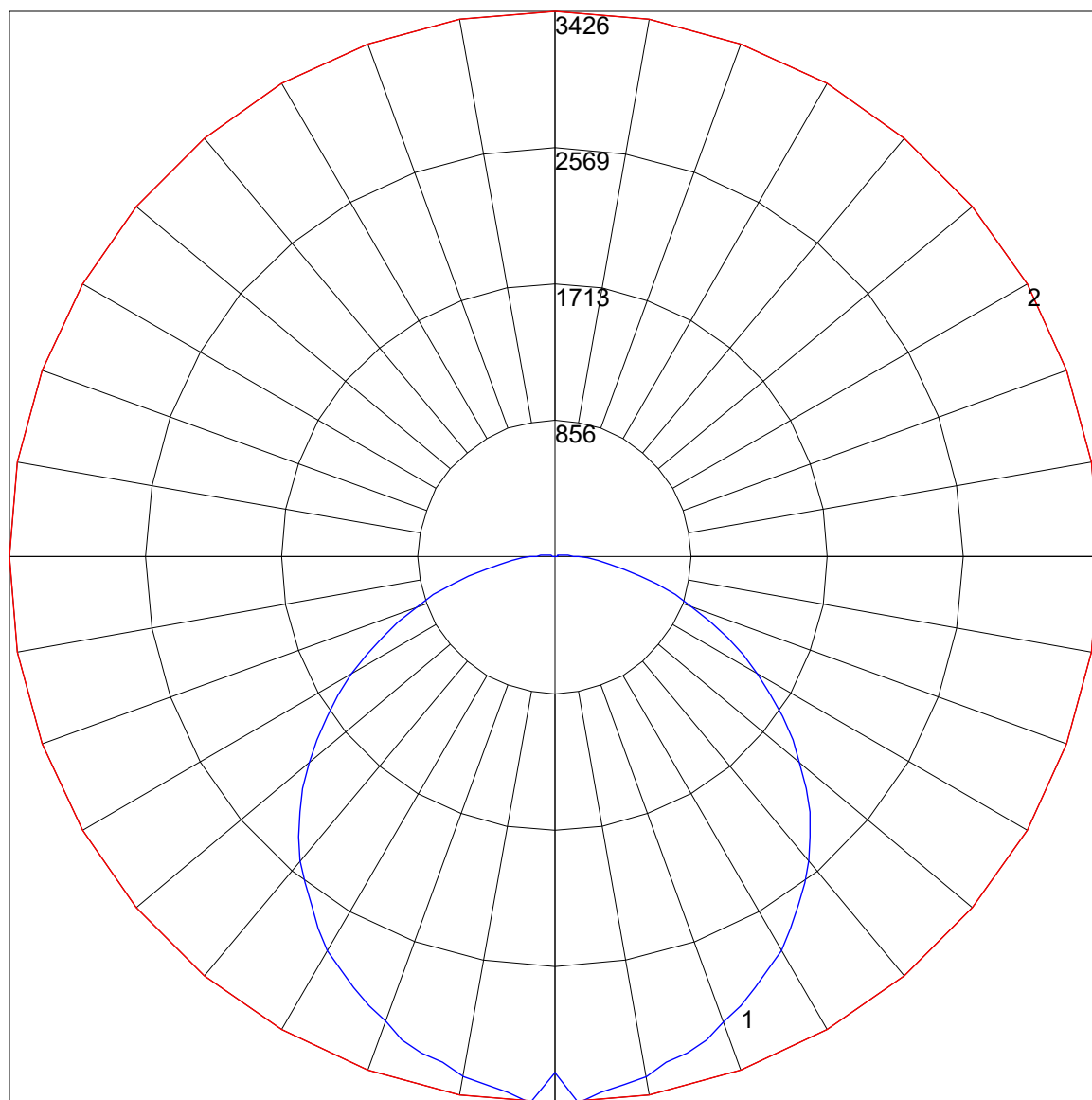
Reflectances

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	18.8	20.4	19.2	20.8	21.2	19.9	21.5	20.2	21.8	22.2
	3H	20.3	21.7	20.7	22.1	22.5	21.6	23.0	22.0	23.4	23.8
	4H	20.8	22.1	21.2	22.5	23.0	22.2	23.6	22.7	24.0	24.4
	6H	21.1	22.4	21.6	22.8	23.2	22.8	24.0	23.2	24.4	24.9
	8H	21.2	22.4	21.7	22.9	23.3	23.0	24.2	23.4	24.6	25.0
	12H	21.3	22.5	21.8	22.9	23.4	23.1	24.3	23.6	24.7	25.2
4H	2H	19.4	20.8	19.8	21.2	21.6	20.3	21.6	20.7	22.0	22.4
	3H	21.1	22.2	21.5	22.7	23.1	22.2	23.3	22.6	23.8	24.2
	4H	21.7	22.7	22.1	23.2	23.7	22.9	24.0	23.4	24.4	24.9
	6H	22.1	23.0	22.6	23.5	24.0	23.6	24.5	24.1	25.0	25.5
	8H	22.3	23.1	22.8	23.6	24.1	23.8	24.7	24.3	25.2	25.7
	12H	22.4	23.2	22.9	23.7	24.2	24.1	24.8	24.6	25.3	25.9
8H	4H	22.0	22.8	22.5	23.3	23.8	23.1	24.0	23.6	24.4	25.0
	6H	22.5	23.2	23.0	23.7	24.3	23.8	24.6	24.4	25.1	25.6
	8H	22.7	23.4	23.2	23.9	24.4	24.1	24.8	24.7	25.3	25.9
	12H	22.9	23.5	23.4	24.0	24.6	24.4	25.0	25.0	25.5	26.1
12H	4H	22.0	22.8	22.5	23.3	23.8	23.1	23.9	23.6	24.4	24.9
	6H	22.6	23.2	23.1	23.7	24.3	23.9	24.5	24.4	25.0	25.6
	8H	22.8	23.4	23.4	23.9	24.5	24.2	24.8	24.7	25.3	25.9

Maximum UGR = 26.1

POLAR GRAPH



Maximum Candela = 3425.71 Located At Horizontal Angle = 0, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)