

IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS100LED4HTVLOWT30120-277V_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 11:36:09 2021

[TEST] 1

[MANUFAC] BEGHELLI

[LUMCAT] LINEAR - INDOOR / OUTDOOR LUMINAIRE

[LUMINAIRE] BS100LED4HTVLOWT30120-277V_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	4375
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	146
Total Luminaire Watts	30
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)	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	5743	4276	3978
55	5317	3604	3293
65	4724	2811	2513
75	3899	1881	1634
85	3223	990	823

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CANDELA TABULATION

	<u>0</u>
0.0	1490.02
2.5	1488.99
5.0	1477.96
7.5	1480.74
10.0	1460.41
12.5	1439.31
15.0	1418.95
17.5	1390.91
20.0	1374.00
22.5	1338.30
25.0	1314.94
27.5	1281.05
30.0	1250.89
32.5	1210.34
35.0	1173.64
37.5	1137.50
40.0	1089.37
42.5	1042.10
45.0	993.86
47.5	938.95
50.0	887.38
52.5	828.11
55.0	769.03
57.5	709.96
60.0	646.48
62.5	587.06
65.0	528.22
67.5	468.79
70.0	408.31
72.5	353.54
75.0	294.80
77.5	243.51
80.0	195.89
82.5	156.00
85.0	119.53
87.5	90.77
90.0	68.18
92.5	51.02
95.0	37.94
97.5	28.36
100.0	22.54
102.5	17.63
105.0	13.66
107.5	10.90
110.0	9.17
112.5	7.17
115.0	5.73
117.5	4.34
120.0	3.61
122.5	2.44
125.0	1.83
127.5	1.08
130.0	0.78
132.5	0.40

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CANDELA TABULATION - (Cont.)

135.0	0.17
137.5	0.08
140.0	0.01
142.5	0.04
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	541.23	N.A.	12.40
0-30	1146.74	N.A.	26.20
0-40	1881.66	N.A.	43.00
0-60	3334.27	N.A.	76.20
0-80	4171.68	N.A.	95.40
0-90	4307.44	N.A.	98.50
10-90	4166.46	N.A.	95.20
20-40	1340.43	N.A.	30.60
20-50	2105.61	N.A.	48.10
40-70	1975.08	N.A.	45.10
60-80	837.41	N.A.	19.10
70-80	314.94	N.A.	7.20
80-90	135.76	N.A.	3.10
90-110	59.83	N.A.	1.40
90-120	65.73	N.A.	1.50
90-130	67.45	N.A.	1.50
90-150	67.67	N.A.	1.50
90-180	67.67	N.A.	1.50
110-180	7.83	N.A.	0.20
0-180	4375.1	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	140.98
10-20	400.25
20-30	605.51
30-40	734.92
40-50	765.19
50-60	687.43
60-70	522.47
70-80	314.94
80-90	135.76
90-100	44.43
100-110	15.40
110-120	5.90
120-130	1.72
130-140	0.21
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	83	81
2	98	89	82	76	95	87	81	75	84	78	73	80	75	71	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

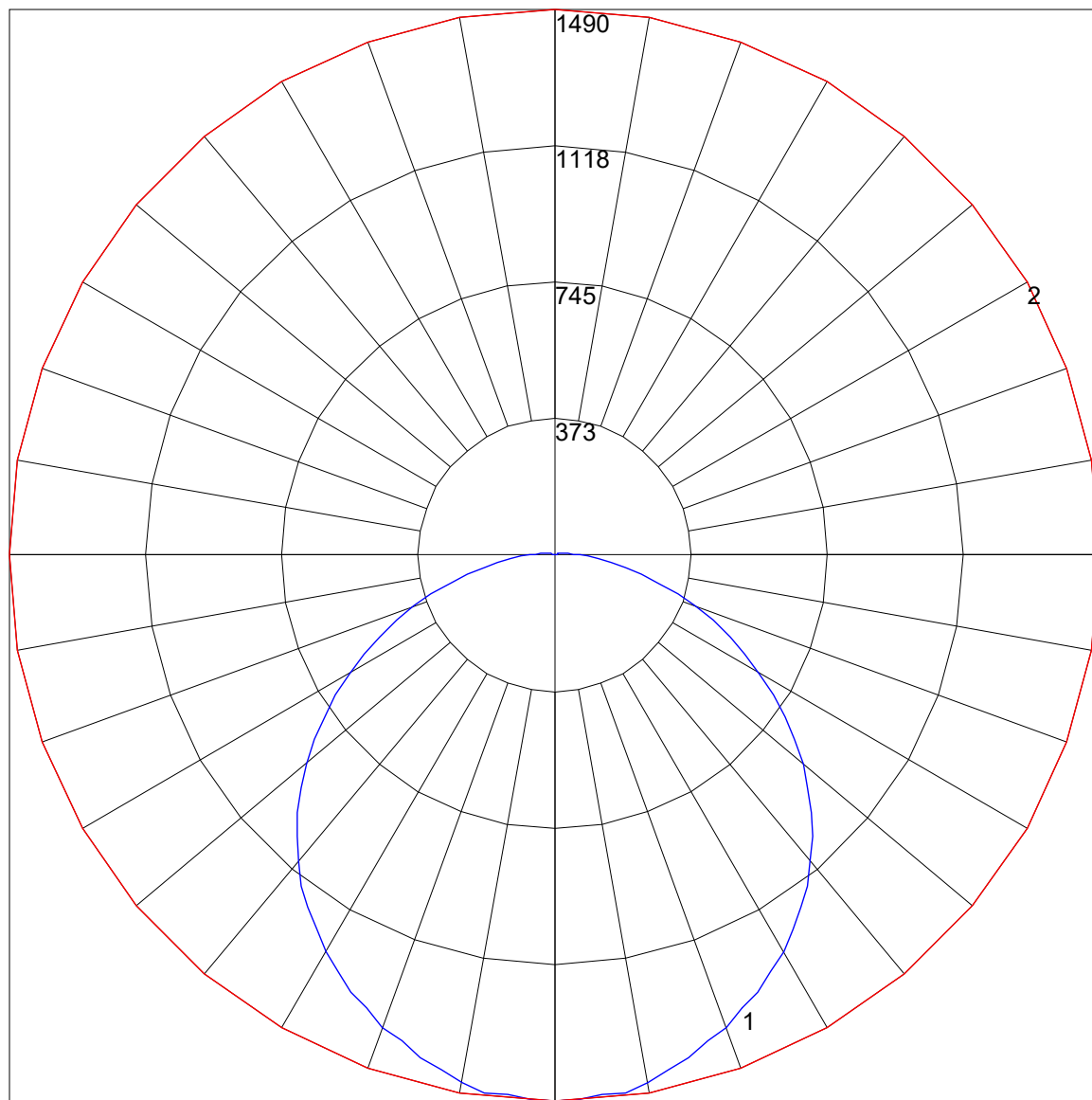
Reflectances

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	15.9	17.5	16.3	17.9	18.3	17.0	18.6	17.4	18.9	19.3
	3H	17.4	18.8	17.8	19.2	19.6	18.7	20.2	19.1	20.5	20.9
	4H	17.9	19.3	18.3	19.6	20.1	19.3	20.7	19.8	21.1	21.5
	6H	18.2	19.5	18.7	19.9	20.3	19.9	21.2	20.3	21.6	22.0
	8H	18.3	19.6	18.8	20.0	20.4	20.1	21.3	20.5	21.7	22.2
	12H	18.4	19.6	18.9	20.0	20.5	20.3	21.4	20.7	21.8	22.3
4H	2H	16.5	17.9	16.9	18.3	18.7	17.4	18.7	17.8	19.1	19.5
	3H	18.2	19.3	18.6	19.8	20.2	19.3	20.4	19.7	20.9	21.3
	4H	18.8	19.8	19.2	20.3	20.8	20.0	21.1	20.5	21.6	22.0
	6H	19.3	20.2	19.7	20.6	21.1	20.7	21.6	21.2	22.1	22.6
	8H	19.4	20.2	19.9	20.7	21.2	21.0	21.8	21.4	22.3	22.8
	12H	19.5	20.3	20.0	20.8	21.3	21.2	22.0	21.7	22.5	23.0
8H	4H	19.1	19.9	19.6	20.4	20.9	20.2	21.1	20.7	21.6	22.1
	6H	19.6	20.3	20.2	20.9	21.4	21.0	21.7	21.5	22.2	22.7
	8H	19.8	20.5	20.4	21.0	21.5	21.3	21.9	21.8	22.5	23.0
	12H	20.0	20.6	20.6	21.1	21.7	21.6	22.2	22.1	22.7	23.3
12H	4H	19.1	19.9	19.6	20.4	20.9	20.2	21.0	20.7	21.5	22.0
	6H	19.7	20.3	20.2	20.8	21.4	21.0	21.6	21.5	22.1	22.7
	8H	19.9	20.5	20.5	21.0	21.6	21.3	21.9	21.9	22.4	23.0

Maximum UGR = 23.3

POLAR GRAPH



Maximum Candela = 1490.02 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.)