

IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS100LED2HTHOWT40120-277V_S.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

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

[ISSUEDATE]

[TESTDATE] Mon Apr 12 11:13:47 2021

[TEST] 1

[MANUFAC] BEGHELLI

[LUMCAT] LINEAR - INDOOR / OUTDOOR LUMINAIRE

[LUMINAIRE] BS100LED2HTHOWT40120-277V_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	7301
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	146
Total Luminaire Watts	50
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	17391	13192	12614
55	15718	10976	10381
65	13674	8551	7983
75	11046	5841	5361
85	7920	3043	2725

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CANDELA TABULATION

	<u>0</u>
0.0	2487.86
2.5	2449.40
5.0	2455.42
7.5	2416.55
10.0	2396.88
12.5	2369.12
15.0	2352.61
17.5	2298.08
20.0	2271.25
22.5	2212.28
25.0	2170.86
27.5	2125.69
30.0	2071.91
32.5	2012.31
35.0	1937.01
37.5	1879.41
40.0	1800.16
42.5	1729.85
45.0	1647.97
47.5	1552.61
50.0	1465.66
52.5	1374.43
55.0	1271.17
57.5	1175.46
60.0	1078.65
62.5	983.45
65.0	882.39
67.5	785.32
70.0	688.93
72.5	597.67
75.0	510.63
77.5	417.67
80.0	336.52
82.5	269.81
85.0	210.02
87.5	161.69
90.0	122.98
92.5	92.65
95.0	71.33
97.5	55.14
100.0	43.31
102.5	34.23
105.0	28.52
107.5	23.80
110.0	20.11
112.5	16.53
115.0	13.01
117.5	10.97
120.0	9.08
122.5	7.16
125.0	5.16
127.5	4.14
130.0	2.92
132.5	2.20

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CANDELA TABULATION - (Cont.)

135.0	1.16
137.5	0.91
140.0	0.34
142.5	0.27
145.0	0.15
147.5	0.14
150.0	0.26
152.5	0.38
155.0	0.45
157.5	0.70
160.0	0.71
162.5	0.71
165.0	0.81
167.5	0.61
170.0	1.37
172.5	0.68
175.0	0.78
177.5	0.88
180.0	1.26

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	892.77	N.A.	12.20
0-30	1894.68	N.A.	25.90
0-40	3110.83	N.A.	42.60
0-60	5516.96	N.A.	75.60
0-80	6929.51	N.A.	94.90
0-90	7166.88	N.A.	98.20
10-90	6935.08	N.A.	95.00
20-40	2218.06	N.A.	30.40
20-50	3485.19	N.A.	47.70
40-70	3280.86	N.A.	44.90
60-80	1412.55	N.A.	19.30
70-80	537.82	N.A.	7.40
80-90	237.37	N.A.	3.30
90-110	113.91	N.A.	1.60
90-120	127.65	N.A.	1.70
90-130	132.74	N.A.	1.80
90-150	134.05	N.A.	1.80
90-180	134.58	N.A.	1.80
110-180	20.67	N.A.	0.30
0-180	7301.46	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	231.80
10-20	660.97
20-30	1001.91
30-40	1216.16
40-50	1267.12
50-60	1139.00
60-70	874.73
70-80	537.82
80-90	237.37
90-100	82.55
100-110	31.36
110-120	13.74
120-130	5.09
130-140	1.17
140-150	0.14
150-160	0.23
160-170	0.22
170-180	0.09

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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	72	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

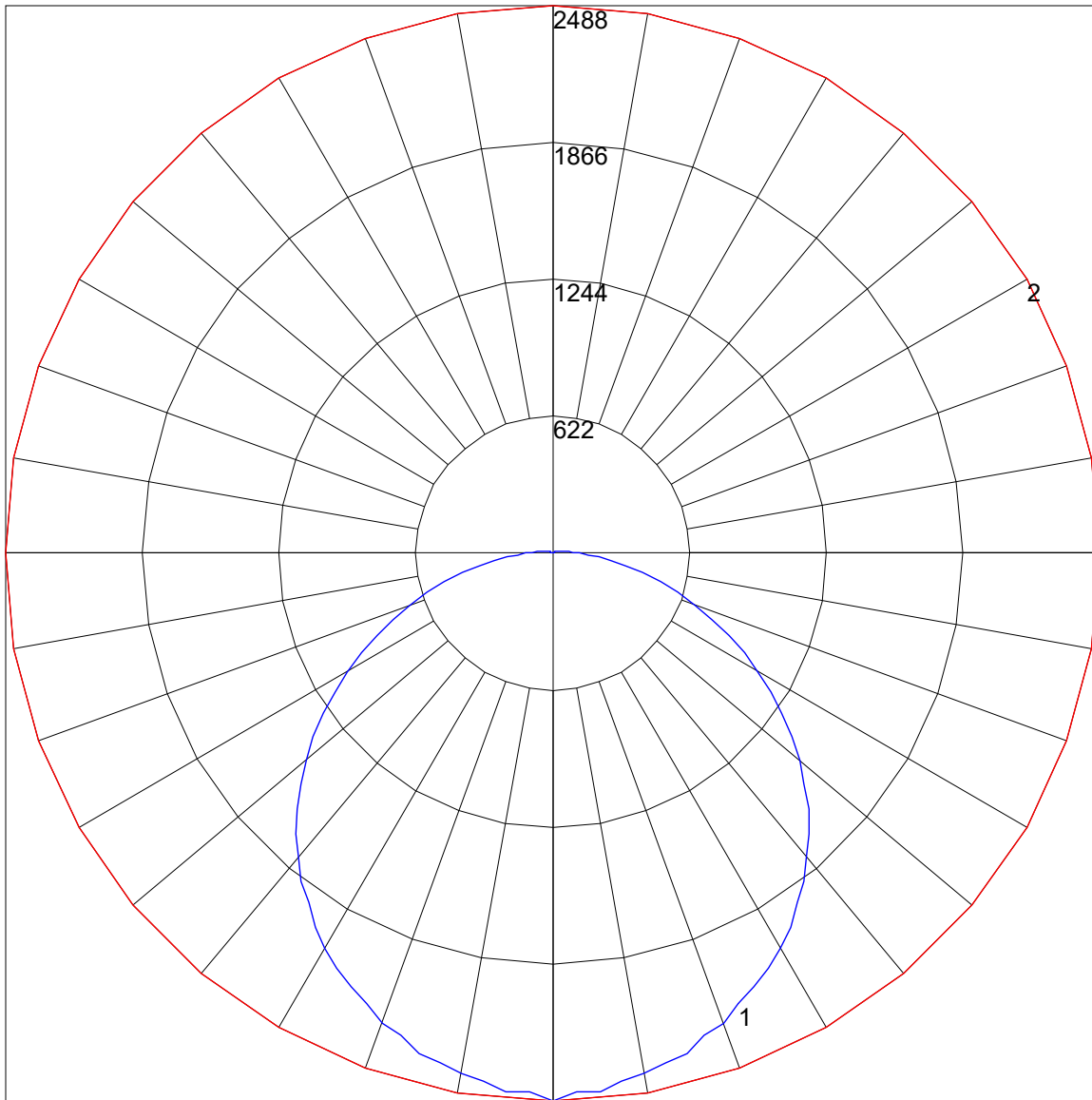
Reflectances

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	19.8	21.5	20.2	21.8	22.2	20.7	22.3	21.1	22.7	23.1
	3H	21.4	22.8	21.8	23.2	23.6	22.5	23.9	22.9	24.3	24.7
	4H	21.9	23.3	22.3	23.7	24.1	23.1	24.5	23.6	24.9	25.3
	6H	22.2	23.5	22.7	23.9	24.4	23.6	24.9	24.1	25.3	25.8
	8H	22.4	23.6	22.8	24.0	24.5	23.8	25.1	24.3	25.5	25.9
	12H	22.4	23.6	22.9	24.0	24.5	24.0	25.2	24.4	25.6	26.1
4H	2H	20.4	21.8	20.9	22.2	22.6	21.2	22.5	21.6	22.9	23.4
	3H	22.1	23.3	22.6	23.7	24.2	23.1	24.2	23.5	24.7	25.1
	4H	22.8	23.8	23.3	24.3	24.8	23.9	24.9	24.3	25.4	25.9
	6H	23.3	24.2	23.7	24.7	25.2	24.5	25.4	25.0	25.9	26.4
	8H	23.4	24.3	23.9	24.8	25.3	24.7	25.6	25.2	26.1	26.6
	12H	23.5	24.3	24.0	24.8	25.3	24.9	25.7	25.4	26.2	26.7
8H	4H	23.1	23.9	23.6	24.4	24.9	24.0	24.9	24.5	25.4	25.9
	6H	23.6	24.4	24.2	24.9	25.4	24.8	25.5	25.3	26.0	26.5
	8H	23.9	24.5	24.4	25.1	25.6	25.1	25.7	25.6	26.3	26.8
	12H	24.0	24.6	24.6	25.2	25.8	25.3	25.9	25.9	26.5	27.1
12H	4H	23.1	23.9	23.6	24.4	24.9	24.0	24.8	24.6	25.3	25.9
	6H	23.7	24.4	24.3	24.9	25.4	24.8	25.4	25.3	25.9	26.5
	8H	24.0	24.5	24.5	25.1	25.7	25.1	25.7	25.7	26.2	26.8

Maximum UGR = 27.1

POLAR GRAPH



Maximum Candela = 2487.86 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.)