

IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS100LED2HTHOWT50120-277V_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 11:17:41 2021

[TEST] 1

[MANUFAC] BEGHELLI

[LUMCAT] LINEAR - INDOOR / OUTDOOR LUMINAIRE

[LUMINAIRE] BS100LED2HTHOWT50120-277V_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	7716
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	154
Total Luminaire Watts	50
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.20
Spacing Criterion (Diagonal)	1.36
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	18316	13894	13285
55	16677	11646	11015
65	14463	9045	8444
75	11633	6151	5645
85	8378	3219	2882

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CANDELA TABULATION

	<u>0</u>
0.0	2739.89
2.5	2575.65
5.0	2587.19
7.5	2581.70
10.0	2530.29
12.5	2510.14
15.0	2461.93
17.5	2414.57
20.0	2380.36
22.5	2333.43
25.0	2293.10
27.5	2242.12
30.0	2187.72
32.5	2115.75
35.0	2049.80
37.5	1978.26
40.0	1903.89
42.5	1829.41
45.0	1735.64
47.5	1641.59
50.0	1558.81
52.5	1451.28
55.0	1348.75
57.5	1247.09
60.0	1145.87
62.5	1036.09
65.0	933.32
67.5	836.07
70.0	731.09
72.5	634.03
75.0	537.73
77.5	439.81
80.0	359.11
82.5	283.96
85.0	222.16
87.5	171.08
90.0	130.06
92.5	99.76
95.0	74.79
97.5	57.20
100.0	44.98
102.5	37.42
105.0	30.03
107.5	25.34
110.0	21.29
112.5	17.17
115.0	14.06
117.5	11.26
120.0	9.03
122.5	7.30
125.0	5.62
127.5	4.28
130.0	3.09
132.5	2.08

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CANDELA TABULATION - (Cont.)

135.0	1.60
137.5	0.97
140.0	0.53
142.5	0.27
145.0	0.22
147.5	0.17
150.0	0.20
152.5	0.34
155.0	0.54
157.5	0.55
160.0	0.79
162.5	0.96
165.0	0.75
167.5	1.38
170.0	1.02
172.5	1.17
175.0	0.58
177.5	1.22
180.0	1.04

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	940.96	N.A.	12.20
0-30	1997.52	N.A.	25.90
0-40	3280.27	N.A.	42.50
0-60	5827.29	N.A.	75.50
0-80	7322.72	N.A.	94.90
0-90	7573.84	N.A.	98.20
10-90	7327.95	N.A.	95.00
20-40	2339.31	N.A.	30.30
20-50	3678.81	N.A.	47.70
40-70	3473.52	N.A.	45.00
60-80	1495.42	N.A.	19.40
70-80	568.93	N.A.	7.40
80-90	251.13	N.A.	3.30
90-110	120.59	N.A.	1.60
90-120	134.97	N.A.	1.70
90-130	140.24	N.A.	1.80
90-150	141.68	N.A.	1.80
90-180	142.27	N.A.	1.80
110-180	21.68	N.A.	0.30
0-180	7716.11	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	245.90
10-20	695.07
20-30	1056.56
30-40	1282.75
40-50	1339.5
50-60	1207.52
60-70	926.50
70-80	568.93
80-90	251.13
90-100	87.19
100-110	33.40
110-120	14.38
120-130	5.27
130-140	1.28
140-150	0.16
150-160	0.22
160-170	0.28
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	88	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	62	58	56
4	81	69	60	53	79	68	59	53	65	58	52	62	56	51	60	54	50	48
5	75	62	52	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	44	38	34	32
8	59	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	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23

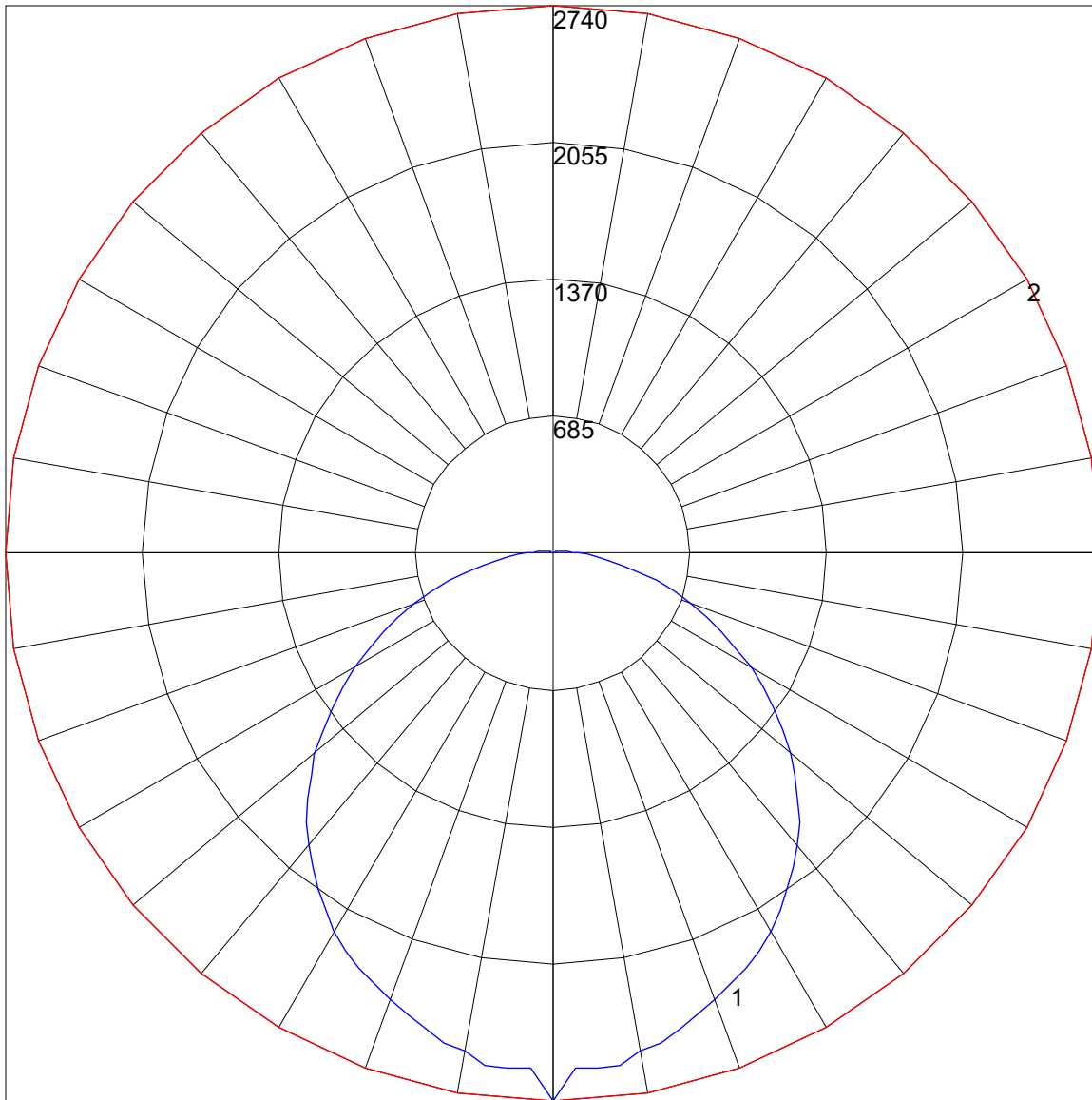
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UGR TABLE - CORRECTED

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	20.1	21.7	20.5	22.0	22.4	20.9	22.6	21.3	22.9	23.3
	3H	21.6	23.0	22.0	23.4	23.8	22.7	24.2	23.1	24.5	24.9
	4H	22.1	23.5	22.5	23.9	24.3	23.4	24.7	23.8	25.1	25.6
	6H	22.5	23.7	22.9	24.2	24.6	23.9	25.1	24.3	25.5	26.0
	8H	22.6	23.8	23.0	24.2	24.7	24.1	25.3	24.5	25.7	26.1
	12H	22.7	23.8	23.1	24.3	24.7	24.2	25.4	24.7	25.8	26.3
4H	2H	20.7	22.0	21.1	22.4	22.9	21.4	22.8	21.8	23.2	23.6
	3H	22.4	23.5	22.8	24.0	24.4	23.3	24.5	23.8	24.9	25.4
	4H	23.0	24.1	23.5	24.5	25.0	24.1	25.1	24.5	25.6	26.1
	6H	23.5	24.4	24.0	24.9	25.4	24.7	25.6	25.2	26.1	26.6
	8H	23.6	24.5	24.1	25.0	25.5	24.9	25.8	25.4	26.3	26.8
	12H	23.7	24.5	24.3	25.0	25.6	25.1	25.9	25.6	26.4	27.0
8H	4H	23.3	24.2	23.8	24.6	25.1	24.3	25.1	24.7	25.6	26.1
	6H	23.9	24.6	24.4	25.1	25.6	25.0	25.7	25.5	26.2	26.7
	8H	24.1	24.7	24.6	25.3	25.8	25.3	25.9	25.8	26.5	27.0
	12H	24.3	24.8	24.8	25.4	26.0	25.6	26.1	26.1	26.7	27.3
12H	4H	23.3	24.1	23.8	24.6	25.1	24.3	25.1	24.8	25.6	26.1
	6H	23.9	24.6	24.5	25.1	25.7	25.0	25.7	25.5	26.2	26.7
	8H	24.2	24.8	24.7	25.3	25.9	25.3	25.9	25.9	26.4	27.0

Maximum UGR = 27.3

POLAR GRAPH



Maximum Candela = 2739.89 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.)