

IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS100LED2HTMOWT40120-277V_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 10:51:56 2021

[TEST] 1

[MANUFAC] BEGHELLI

[LUMCAT] LINEAR - INDOOR / OUTDOOR LUMINAIRE

[LUMINAIRE] BS100LED2HTMOWT40120-277V_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	5835
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	146
Total Luminaire Watts	40
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	13870	10522	10060
55	12636	8824	8346
65	11015	6889	6431
75	8758	4631	4250
85	6383	2453	2196

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CANDELA TABULATION

<u>0</u>	
0.0	1956.84
2.5	1967.50
5.0	1967.60
7.5	1944.78
10.0	1922.38
12.5	1889.10
15.0	1877.70
17.5	1851.44
20.0	1808.21
22.5	1772.95
25.0	1725.20
27.5	1700.64
30.0	1649.24
32.5	1601.91
35.0	1545.73
37.5	1494.42
40.0	1437.02
42.5	1374.05
45.0	1314.34
47.5	1242.42
50.0	1171.32
52.5	1095.96
55.0	1021.93
57.5	944.02
60.0	862.11
62.5	785.27
65.0	710.82
67.5	632.39
70.0	553.91
72.5	476.73
75.0	404.86
77.5	335.32
80.0	269.78
82.5	215.47
85.0	169.27
87.5	129.33
90.0	96.18
92.5	74.86
95.0	55.99
97.5	43.87
100.0	34.46
102.5	27.79
105.0	22.21
107.5	19.35
110.0	15.90
112.5	13.11
115.0	10.59
117.5	8.80
120.0	7.36
122.5	5.48
125.0	4.42
127.5	3.38
130.0	2.35
132.5	1.65

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CANDELA TABULATION - (Cont.)

135.0	1.09
137.5	0.82
140.0	0.47
142.5	0.33
145.0	0.18
147.5	0.20
150.0	0.18
152.5	0.32
155.0	0.33
157.5	0.41
160.0	0.49
162.5	0.63
165.0	0.44
167.5	0.79
170.0	0.57
172.5	0.77
175.0	0.72
177.5	1.03
180.0	0.94

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	714.94	N.A.	12.30
0-30	1514.49	N.A.	26.00
0-40	2483.26	N.A.	42.60
0-60	4406.18	N.A.	75.50
0-80	5537.8	N.A.	94.90
0-90	5727.7	N.A.	98.20
10-90	5541.68	N.A.	95.00
20-40	1768.32	N.A.	30.30
20-50	2779.08	N.A.	47.60
40-70	2624.87	N.A.	45.00
60-80	1131.62	N.A.	19.40
70-80	429.67	N.A.	7.40
80-90	189.90	N.A.	3.30
90-110	90.62	N.A.	1.60
90-120	101.63	N.A.	1.70
90-130	105.73	N.A.	1.80
90-150	106.88	N.A.	1.80
90-180	107.28	N.A.	1.80
110-180	16.66	N.A.	0.30
0-180	5834.98	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	186.03
10-20	528.91
20-30	799.55
30-40	968.77
40-50	1010.76
50-60	912.17
60-70	701.95
70-80	429.67
80-90	189.90
90-100	65.55
100-110	25.07
110-120	11.00
120-130	4.11
130-140	0.98
140-150	0.17
150-160	0.16
160-170	0.17
170-180	0.07

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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	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	44	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

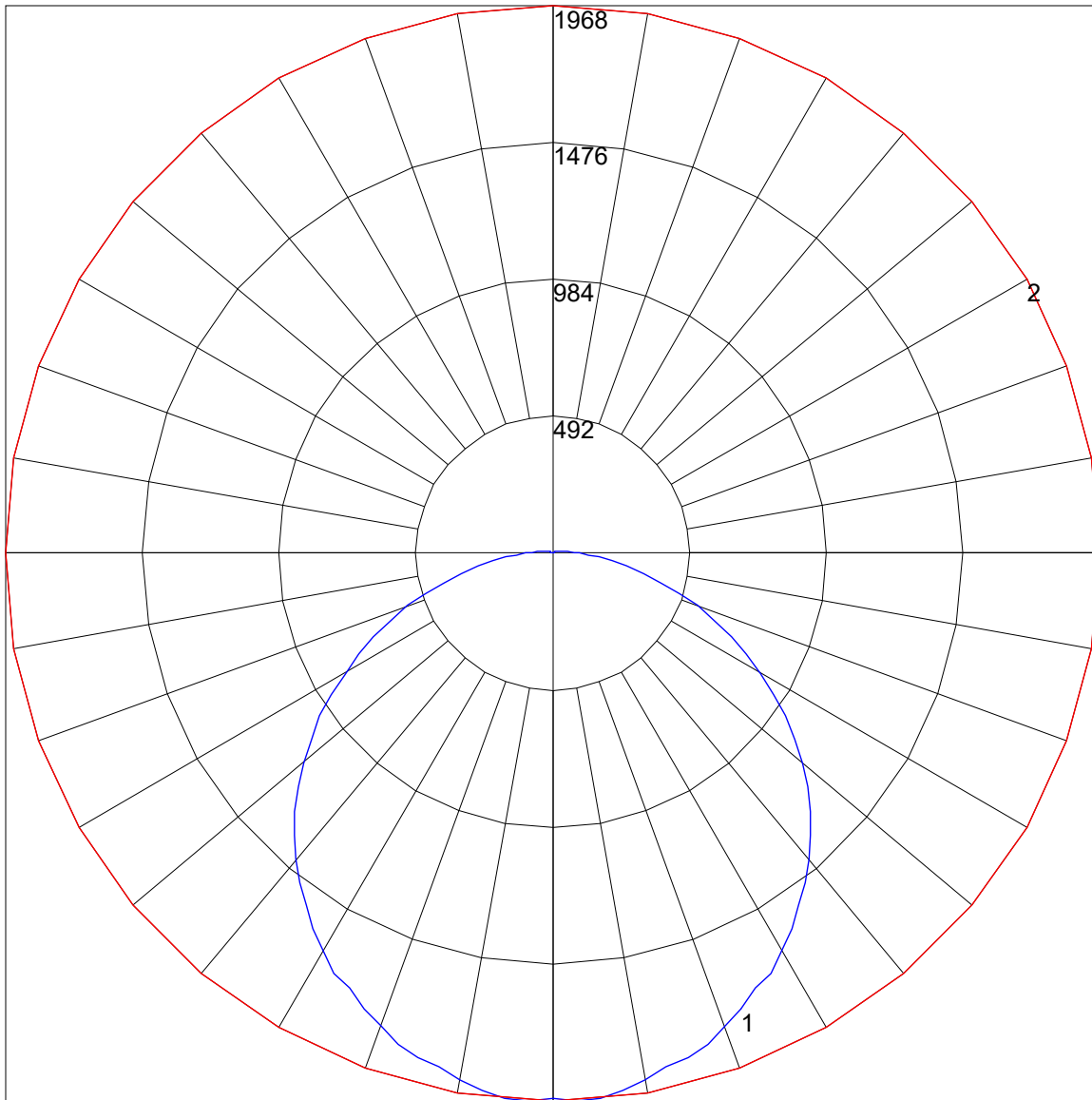
Reflectances

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	19.1	20.7	19.5	21.1	21.4	20.0	21.6	20.4	21.9	22.3
	3H	20.6	22.1	21.0	22.4	22.8	21.7	23.2	22.1	23.5	24.0
	4H	21.1	22.5	21.5	22.9	23.3	22.4	23.7	22.8	24.1	24.6
	6H	21.5	22.8	21.9	23.2	23.6	22.9	24.1	23.3	24.6	25.0
	8H	21.6	22.8	22.0	23.2	23.7	23.1	24.3	23.5	24.7	25.2
	12H	21.7	22.8	22.1	23.3	23.7	23.2	24.4	23.7	24.8	25.3
4H	2H	19.7	21.1	20.1	21.5	21.9	20.4	21.8	20.8	22.2	22.6
	3H	21.4	22.5	21.8	23.0	23.4	22.3	23.5	22.8	23.9	24.4
	4H	22.0	23.1	22.5	23.5	24.0	23.1	24.1	23.5	24.6	25.1
	6H	22.5	23.4	23.0	23.9	24.4	23.7	24.6	24.2	25.1	25.6
	8H	22.6	23.5	23.1	24.0	24.5	23.9	24.8	24.4	25.3	25.8
	12H	22.8	23.5	23.3	24.1	24.6	24.1	24.9	24.7	25.5	26.0
8H	4H	22.3	23.2	22.8	23.6	24.2	23.3	24.1	23.7	24.6	25.1
	6H	22.9	23.6	23.4	24.1	24.6	24.0	24.7	24.5	25.2	25.7
	8H	23.1	23.7	23.6	24.3	24.8	24.3	24.9	24.8	25.5	26.0
	12H	23.3	23.9	23.8	24.4	25.0	24.6	25.2	25.1	25.7	26.3
12H	4H	22.3	23.1	22.8	23.6	24.1	23.3	24.1	23.8	24.6	25.1
	6H	22.9	23.6	23.5	24.1	24.7	24.0	24.7	24.6	25.2	25.7
	8H	23.2	23.8	23.7	24.3	24.9	24.3	24.9	24.9	25.5	26.1

Maximum UGR = 26.3

POLAR GRAPH



Maximum Candela = 1967.6 Located At Horizontal Angle = 0, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)