

IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS100LED4HTMOWT50120-277V_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 13:01:21 2021

[TEST] 1

[MANUFAC] BEGHELLI

[LUMCAT] LINEAR - INDOOR / OUTDOOR LUMINAIRE

[LUMINAIRE] BS100LED4HTMOWT50120-277V_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	8284
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	166
Total Luminaire Watts	50
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.28
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	10820	8057	7495
55	10059	6818	6229
65	8955	5329	4764
75	7453	3596	3122
85	6103	1875	1559

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CANDELA TABULATION

	<u>0</u>
0.0	2784.93
2.5	2789.68
5.0	2816.35
7.5	2805.53
10.0	2746.17
12.5	2720.43
15.0	2698.64
17.5	2648.94
20.0	2594.06
22.5	2549.81
25.0	2504.18
27.5	2429.85
30.0	2373.84
32.5	2307.78
35.0	2219.23
37.5	2149.49
40.0	2057.44
42.5	1963.27
45.0	1872.44
47.5	1778.52
50.0	1672.78
52.5	1568.60
55.0	1454.80
57.5	1340.48
60.0	1229.34
62.5	1107.90
65.0	1001.30
67.5	883.25
70.0	775.05
72.5	664.67
75.0	563.43
77.5	461.42
80.0	374.68
82.5	292.16
85.0	226.39
87.5	170.55
90.0	129.04
92.5	95.85
95.0	72.17
97.5	54.41
100.0	43.15
102.5	32.86
105.0	26.72
107.5	21.14
110.0	17.48
112.5	13.85
115.0	10.87
117.5	8.49
120.0	6.82
122.5	4.66
125.0	3.57
127.5	2.18
130.0	1.40
132.5	0.75

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CANDELA TABULATION - (Cont.)

135.0	0.45
137.5	0.18
140.0	0.08
142.5	0.02
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	1025.41	N.A.	12.40
0-30	2175.76	N.A.	26.30
0-40	3568.39	N.A.	43.10
0-60	6312.87	N.A.	76.20
0-80	7898.62	N.A.	95.40
0-90	8154.96	N.A.	98.40
10-90	7888.38	N.A.	95.20
20-40	2542.98	N.A.	30.70
20-50	3987.07	N.A.	48.10
40-70	3732.91	N.A.	45.10
60-80	1585.75	N.A.	19.10
70-80	597.32	N.A.	7.20
80-90	256.34	N.A.	3.10
90-110	113.72	N.A.	1.40
90-120	125.05	N.A.	1.50
90-130	128.35	N.A.	1.50
90-150	128.78	N.A.	1.60
90-180	128.78	N.A.	1.60
110-180	15.06	N.A.	0.20
0-180	8283.74	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	266.57
10-20	758.83
20-30	1150.35
30-40	1392.64
40-50	1444.09
50-60	1300.39
60-70	988.43
70-80	597.32
80-90	256.34
90-100	84.26
100-110	29.46
110-120	11.32
120-130	3.30
130-140	0.42
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	33	28	38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	35	29	25	23

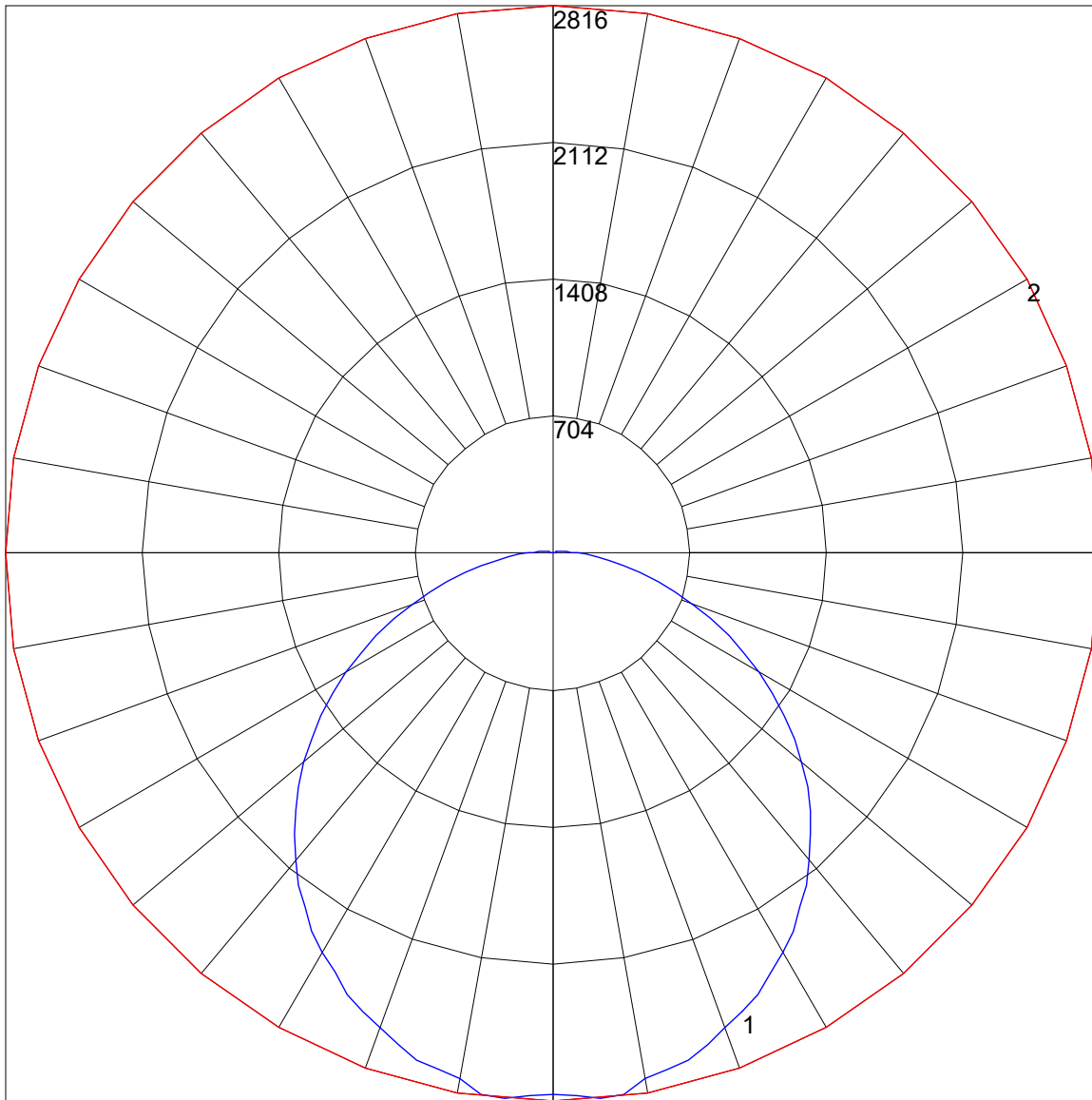
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UGR TABLE - CORRECTED

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	18.2	19.8	18.6	20.2	20.5	19.2	20.8	19.6	21.2	21.6
	3H	19.7	21.1	20.1	21.5	21.9	21.0	22.4	21.4	22.8	23.2
	4H	20.2	21.5	20.6	21.9	22.4	21.6	23.0	22.1	23.4	23.8
	6H	20.5	21.8	21.0	22.2	22.6	22.2	23.4	22.6	23.9	24.3
	8H	20.6	21.8	21.1	22.3	22.7	22.4	23.6	22.8	24.0	24.5
	12H	20.7	21.9	21.2	22.3	22.8	22.5	23.7	23.0	24.1	24.6
4H	2H	18.8	20.2	19.2	20.6	21.0	19.6	21.0	20.1	21.4	21.8
	3H	20.5	21.6	20.9	22.1	22.5	21.6	22.7	22.0	23.2	23.6
	4H	21.1	22.1	21.5	22.6	23.1	22.3	23.4	22.8	23.9	24.3
	6H	21.5	22.5	22.0	22.9	23.4	23.0	23.9	23.5	24.4	24.9
	8H	21.7	22.5	22.2	23.0	23.5	23.3	24.1	23.7	24.6	25.1
	12H	21.8	22.6	22.3	23.1	23.6	23.5	24.2	24.0	24.8	25.3
8H	4H	21.4	22.2	21.9	22.7	23.2	22.5	23.4	23.0	23.9	24.4
	6H	21.9	22.6	22.5	23.2	23.7	23.3	24.0	23.8	24.5	25.0
	8H	22.1	22.8	22.7	23.3	23.8	23.6	24.2	24.1	24.8	25.3
	12H	22.3	22.9	22.9	23.4	24.0	23.9	24.4	24.4	25.0	25.6
12H	4H	21.4	22.2	21.9	22.7	23.2	22.5	23.3	23.0	23.8	24.3
	6H	22.0	22.6	22.5	23.1	23.7	23.3	23.9	23.8	24.4	25.0
	8H	22.2	22.8	22.8	23.3	23.9	23.6	24.2	24.2	24.7	25.3

Maximum UGR = 25.6

POLAR GRAPH



Maximum Candela = 2816.35 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.)