

IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS100LED4HTLOWT40120-277V_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 12:50:02 2021

[TEST] 1

[MANUFAC] BEGHELLI

[LUMCAT] LINEAR - INDOOR / OUTDOOR LUMINAIRE

[LUMINAIRE] BS100LED4HTLOWT40120-277V_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	6264
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	157
Total Luminaire Watts	40
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.40
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	8202	6107	5682
55	7612	5159	4714
65	6735	4008	3582
75	5568	2687	2333
85	4584	1409	1171

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CANDELA TABULATION

	<u>0</u>
0.0	2106.336
2.5	2122.560
5.0	2105.744
7.5	2108.856
10.0	2080.808
12.5	2066.376
15.0	2029.288
17.5	2008.040
20.0	1983.592
22.5	1934.080
25.0	1895.728
27.5	1847.392
30.0	1793.288
32.5	1743.488
35.0	1684.872
37.5	1625.896
40.0	1565.272
42.5	1491.696
45.0	1419.320
47.5	1346.272
50.0	1257.376
52.5	1181.672
55.0	1100.944
57.5	1009.640
60.0	927.040
62.5	836.960
65.0	753.008
67.5	666.608
70.0	587.200
72.5	502.376
75.0	420.952
77.5	347.944
80.0	280.336
82.5	221.400
85.0	170.032
87.5	129.864
90.0	98.200
92.5	72.976
95.0	54.832
97.5	41.664
100.0	31.496
102.5	24.728
105.0	19.720
107.5	16.128
110.0	12.928
112.5	10.216
115.0	7.976
117.5	6.656
120.0	4.928
122.5	3.496
125.0	2.464
127.5	1.600
130.0	0.912
132.5	0.568

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CANDELA TABULATION - (Cont.)

135.0	0.248
137.5	0.096
140.0	0.032
142.5	0.008
145.0	0.000
147.5	0.000
150.0	0.000
152.5	0.000
155.0	0.000
157.5	0.000
160.0	0.000
162.5	0.000
165.0	0.000
167.5	0.000
170.0	0.000
172.5	0.000
175.0	0.000
177.5	0.000
180.0	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	775.85	N.A.	12.40
0-30	1648.83	N.A.	26.30
0-40	2703.51	N.A.	43.20
0-60	4778.35	N.A.	76.30
0-80	5973.81	N.A.	95.40
0-90	6167.39	N.A.	98.50
10-90	5966.59	N.A.	95.20
20-40	1927.66	N.A.	30.80
20-50	3021.99	N.A.	48.20
40-70	2820.56	N.A.	45.00
60-80	1195.46	N.A.	19.10
70-80	449.75	N.A.	7.20
80-90	193.57	N.A.	3.10
90-110	85.96	N.A.	1.40
90-120	94.39	N.A.	1.50
90-130	96.78	N.A.	1.50
90-150	97.06	N.A.	1.50
90-180	97.06	N.A.	1.50
110-180	11.10	N.A.	0.20
0-180	6264.45	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	200.80
10-20	575.05
20-30	872.98
30-40	1054.67
40-50	1094.33
50-60	980.52
60-70	745.71
70-80	449.75
80-90	193.57
90-100	64.00
100-110	21.96
110-120	8.43
120-130	2.38
130-140	0.28
140-150	0.00
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	84	81
2	98	89	82	76	95	87	81	75	84	78	73	80	75	72	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	51	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	39	36
7	64	51	42	35	62	50	41	35	48	40	35	46	40	35	45	39	34	32
8	60	46	38	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

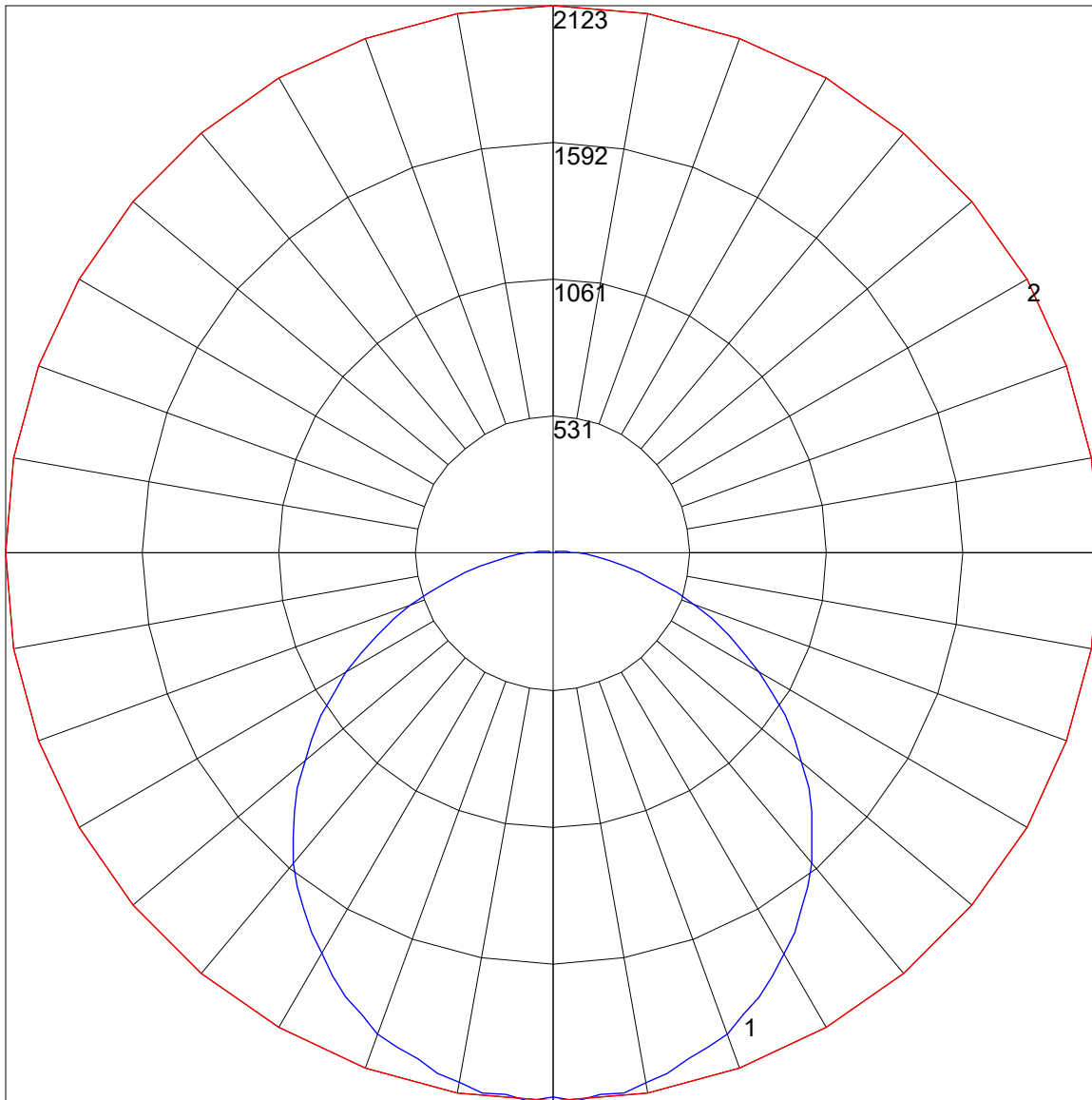
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UGR TABLE - CORRECTED

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	17.2	18.8	17.6	19.1	19.5	18.2	19.8	18.6	20.2	20.5
	3H	18.7	20.1	19.1	20.5	20.9	20.0	21.4	20.4	21.8	22.2
	4H	19.2	20.5	19.6	20.9	21.3	20.6	22.0	21.1	22.4	22.8
	6H	19.5	20.8	20.0	21.2	21.6	21.2	22.4	21.6	22.8	23.3
	8H	19.6	20.8	20.1	21.3	21.7	21.3	22.6	21.8	23.0	23.4
	12H	19.7	20.8	20.1	21.3	21.7	21.5	22.7	22.0	23.1	23.6
4H	2H	17.8	19.2	18.2	19.6	20.0	18.6	20.0	19.1	20.4	20.8
	3H	19.5	20.6	19.9	21.1	21.5	20.6	21.7	21.0	22.2	22.6
	4H	20.1	21.1	20.5	21.6	22.0	21.3	22.4	21.8	22.8	23.3
	6H	20.5	21.4	21.0	21.9	22.4	22.0	22.9	22.5	23.4	23.9
	8H	20.7	21.5	21.2	22.0	22.5	22.2	23.1	22.7	23.6	24.1
	12H	20.8	21.6	21.3	22.1	22.6	22.5	23.2	23.0	23.7	24.3
8H	4H	20.4	21.2	20.8	21.7	22.2	21.5	22.4	22.0	22.8	23.4
	6H	20.9	21.6	21.4	22.1	22.7	22.2	22.9	22.8	23.5	24.0
	8H	21.1	21.8	21.6	22.3	22.8	22.5	23.2	23.1	23.7	24.3
	12H	21.3	21.9	21.8	22.4	23.0	22.9	23.4	23.4	23.9	24.6
12H	4H	20.4	21.2	20.9	21.7	22.2	21.5	22.3	22.0	22.8	23.3
	6H	21.0	21.6	21.5	22.1	22.7	22.3	22.9	22.8	23.4	24.0
	8H	21.2	21.8	21.8	22.3	22.9	22.6	23.2	23.1	23.7	24.3

Maximum UGR = 24.6

POLAR GRAPH



Maximum Candela = 2122.56 Located At Horizontal Angle = 0, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)