

IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS100LED4HTLOWT30120-277V_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 12:27:58 2021

[TEST] 1

[MANUFAC] BEGHELLI

[LUMCAT] LINEAR - INDOOR / OUTDOOR LUMINAIRE

[LUMINAIRE] BS100LED4HTLOWT30120-277V_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	5555
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	139
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)	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	7263	5408	5032
55	6746	4572	4177
65	5988	3563	3185
75	4956	2391	2076
85	4098	1259	1047

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CANDELA TABULATION

	<u>0</u>
0.0	1891.536
2.5	1890.888
5.0	1871.976
7.5	1872.928
10.0	1851.512
12.5	1835.432
15.0	1800.640
17.5	1764.480
20.0	1744.024
22.5	1717.888
25.0	1677.048
27.5	1631.632
30.0	1590.600
32.5	1543.680
35.0	1494.632
37.5	1435.416
40.0	1390.400
42.5	1321.312
45.0	1256.920
47.5	1192.728
50.0	1124.992
52.5	1044.936
55.0	975.656
57.5	901.224
60.0	818.560
62.5	741.176
65.0	669.536
67.5	593.168
70.0	517.128
72.5	447.040
75.0	374.656
77.5	309.944
80.0	248.248
82.5	197.728
85.0	152.016
87.5	116.600
90.0	86.544
92.5	64.376
95.0	48.856
97.5	37.144
100.0	28.760
102.5	21.664
105.0	17.992
107.5	14.104
110.0	11.576
112.5	9.304
115.0	7.272
117.5	5.816
120.0	4.384
122.5	3.208
125.0	2.568
127.5	1.488
130.0	1.080
132.5	0.552

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CANDELA TABULATION - (Cont.)

135.0	0.280
137.5	0.104
140.0	0.024
142.5	0.032
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	686.95	N.A.	12.40
0-30	1459.36	N.A.	26.30
0-40	2393.51	N.A.	43.10
0-60	4235.08	N.A.	76.20
0-80	5295.65	N.A.	95.30
0-90	5468.3	N.A.	98.40
10-90	5289.72	N.A.	95.20
20-40	1706.56	N.A.	30.70
20-50	2677.4	N.A.	48.20
40-70	2502.68	N.A.	45.10
60-80	1060.57	N.A.	19.10
70-80	399.46	N.A.	7.20
80-90	172.65	N.A.	3.10
90-110	76.43	N.A.	1.40
90-120	84.01	N.A.	1.50
90-130	86.28	N.A.	1.60
90-150	86.59	N.A.	1.60
90-180	86.59	N.A.	1.60
110-180	10.16	N.A.	0.20
0-180	5554.89	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	178.58
10-20	508.37
20-30	772.41
30-40	934.15
40-50	970.84
50-60	870.73
60-70	661.11
70-80	399.46
80-90	172.65
90-100	56.81
100-110	19.62
110-120	7.58
120-130	2.27
130-140	0.30
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	35	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

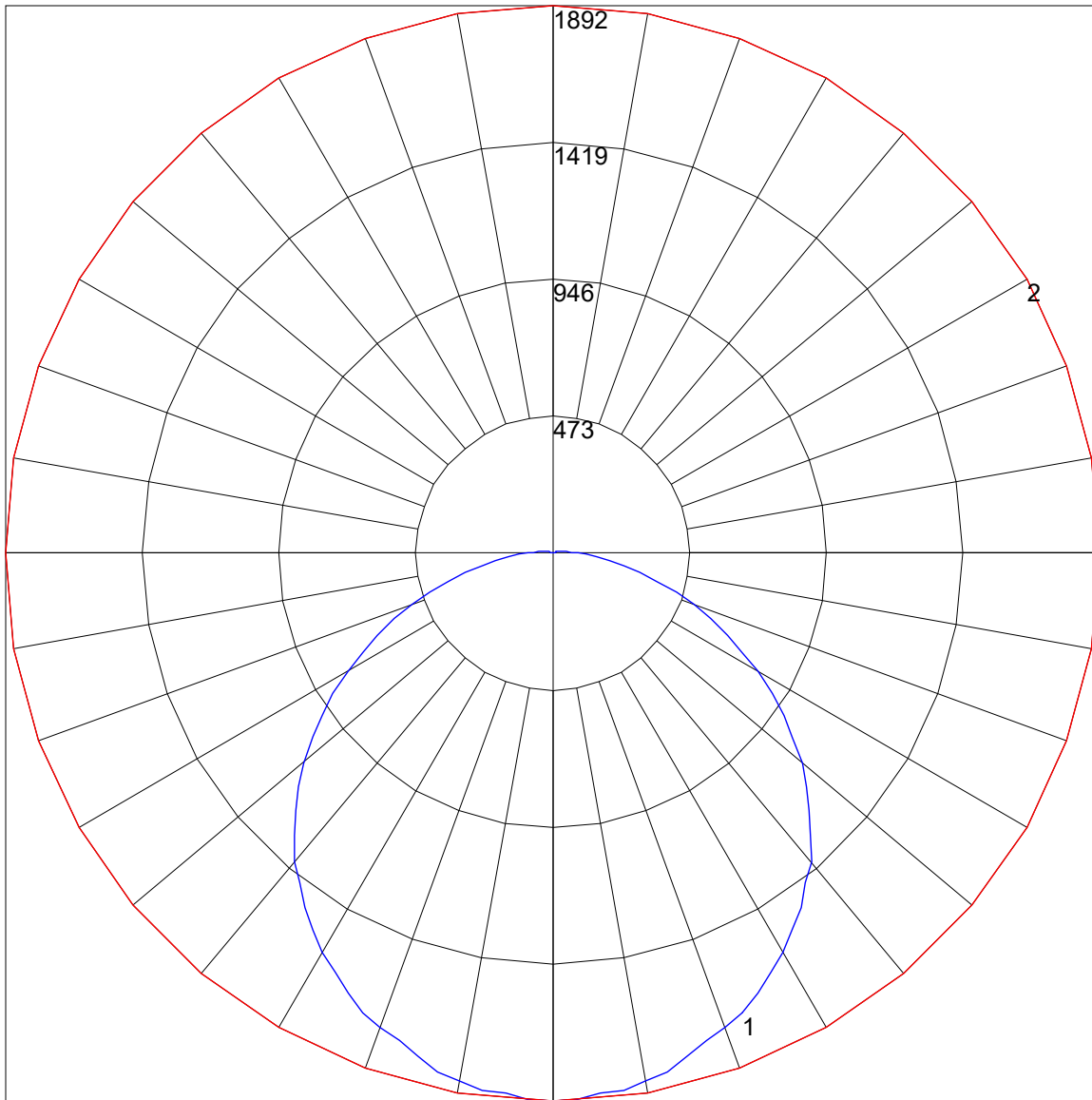
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UGR TABLE - CORRECTED

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	16.8	18.4	17.2	18.8	19.1	17.8	19.5	18.2	19.8	20.2
	3H	18.3	19.7	18.7	20.1	20.5	19.6	21.0	20.0	21.4	21.8
	4H	18.8	20.1	19.2	20.5	21.0	20.2	21.6	20.7	22.0	22.4
	6H	19.1	20.4	19.6	20.8	21.2	20.8	22.0	21.2	22.5	22.9
	8H	19.2	20.4	19.7	20.9	21.3	21.0	22.2	21.4	22.6	23.1
	12H	19.3	20.5	19.8	20.9	21.4	21.1	22.3	21.6	22.7	23.2
4H	2H	17.4	18.8	17.8	19.2	19.6	18.2	19.6	18.7	20.0	20.4
	3H	19.1	20.2	19.5	20.7	21.1	20.2	21.3	20.6	21.8	22.2
	4H	19.7	20.7	20.1	21.2	21.7	20.9	22.0	21.4	22.4	22.9
	6H	20.1	21.1	20.6	21.5	22.0	21.6	22.5	22.1	23.0	23.5
	8H	20.3	21.1	20.8	21.6	22.1	21.8	22.7	22.3	23.2	23.7
	12H	20.4	21.2	20.9	21.7	22.2	22.1	22.8	22.6	23.4	23.9
8H	4H	20.0	20.8	20.5	21.3	21.8	21.1	22.0	21.6	22.5	23.0
	6H	20.5	21.2	21.0	21.8	22.3	21.9	22.6	22.4	23.1	23.6
	8H	20.7	21.4	21.3	21.9	22.4	22.2	22.8	22.7	23.3	23.9
	12H	20.9	21.5	21.4	22.0	22.6	22.5	23.0	23.0	23.6	24.2
12H	4H	20.0	20.8	20.5	21.3	21.8	21.1	21.9	21.6	22.4	22.9
	6H	20.6	21.2	21.1	21.7	22.3	21.9	22.5	22.4	23.0	23.6
	8H	20.8	21.4	21.4	21.9	22.5	22.2	22.8	22.8	23.3	23.9

Maximum UGR = 24.2

POLAR GRAPH



Maximum Candela = 1891.536 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.)