

IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS100LED2HTLOWT30120-277V_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 10:07:46 2021

[TEST] 1

[MANUFAC] BEGHELLI

[LUMCAT] LINEAR - INDOOR / OUTDOOR LUMINAIRE

[LUMINAIRE] BS100LED2HTLOWT30120-277V_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	3876
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	129
Total Luminaire Watts	30
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)	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	9220	6994	6687
55	8422	5881	5562
65	7246	4531	4230
75	5840	3088	2834
85	4199	1614	1445

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CANDELA TABULATION

	<u>0</u>
0.0	1283.21
2.5	1291.35
5.0	1298.33
7.5	1278.95
10.0	1279.59
12.5	1262.55
15.0	1248.43
17.5	1223.75
20.0	1204.82
22.5	1175.28
25.0	1147.71
27.5	1125.14
30.0	1094.21
32.5	1064.14
35.0	1029.80
37.5	997.91
40.0	957.52
42.5	916.12
45.0	873.67
47.5	827.65
50.0	779.73
52.5	729.82
55.0	681.10
57.5	624.37
60.0	573.86
62.5	520.89
65.0	467.56
67.5	415.61
70.0	369.02
72.5	315.78
75.0	269.95
77.5	221.03
80.0	179.17
82.5	142.99
85.0	111.35
87.5	84.98
90.0	65.31
92.5	48.82
95.0	37.61
97.5	29.18
100.0	22.75
102.5	18.60
105.0	15.24
107.5	12.80
110.0	10.88
112.5	8.70
115.0	6.94
117.5	5.65
120.0	4.55
122.5	3.86
125.0	2.93
127.5	2.26
130.0	1.60
132.5	1.09

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CANDELA TABULATION - (Cont.)

135.0	0.78
137.5	0.41
140.0	0.29
142.5	0.14
145.0	0.06
147.5	0.07
150.0	0.09
152.5	0.10
155.0	0.24
157.5	0.25
160.0	0.30
162.5	0.36
165.0	0.31
167.5	0.29
170.0	0.62
172.5	0.40
175.0	0.60
177.5	0.37
180.0	2.53

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	474.32	N.A.	12.20
0-30	1004.9	N.A.	25.90
0-40	1649.94	N.A.	42.60
0-60	2929.52	N.A.	75.60
0-80	3678.75	N.A.	94.90
0-90	3804.5	N.A.	98.20
10-90	3681.78	N.A.	95.00
20-40	1175.61	N.A.	30.30
20-50	1848.68	N.A.	47.70
40-70	1743.69	N.A.	45.00
60-80	749.23	N.A.	19.30
70-80	285.13	N.A.	7.40
80-90	125.75	N.A.	3.20
90-110	60.42	N.A.	1.60
90-120	67.66	N.A.	1.70
90-130	70.41	N.A.	1.80
90-150	71.12	N.A.	1.80
90-180	71.36	N.A.	1.80
110-180	10.94	N.A.	0.30
0-180	3875.86	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	122.72
10-20	351.60
20-30	530.58
30-40	645.03
40-50	673.07
50-60	606.51
60-70	464.10
70-80	285.13
80-90	125.75
90-100	43.60
100-110	16.83
110-120	7.24
120-130	2.75
130-140	0.64
140-150	0.07
150-160	0.09
160-170	0.10
170-180	0.05

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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	89	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	63	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	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23

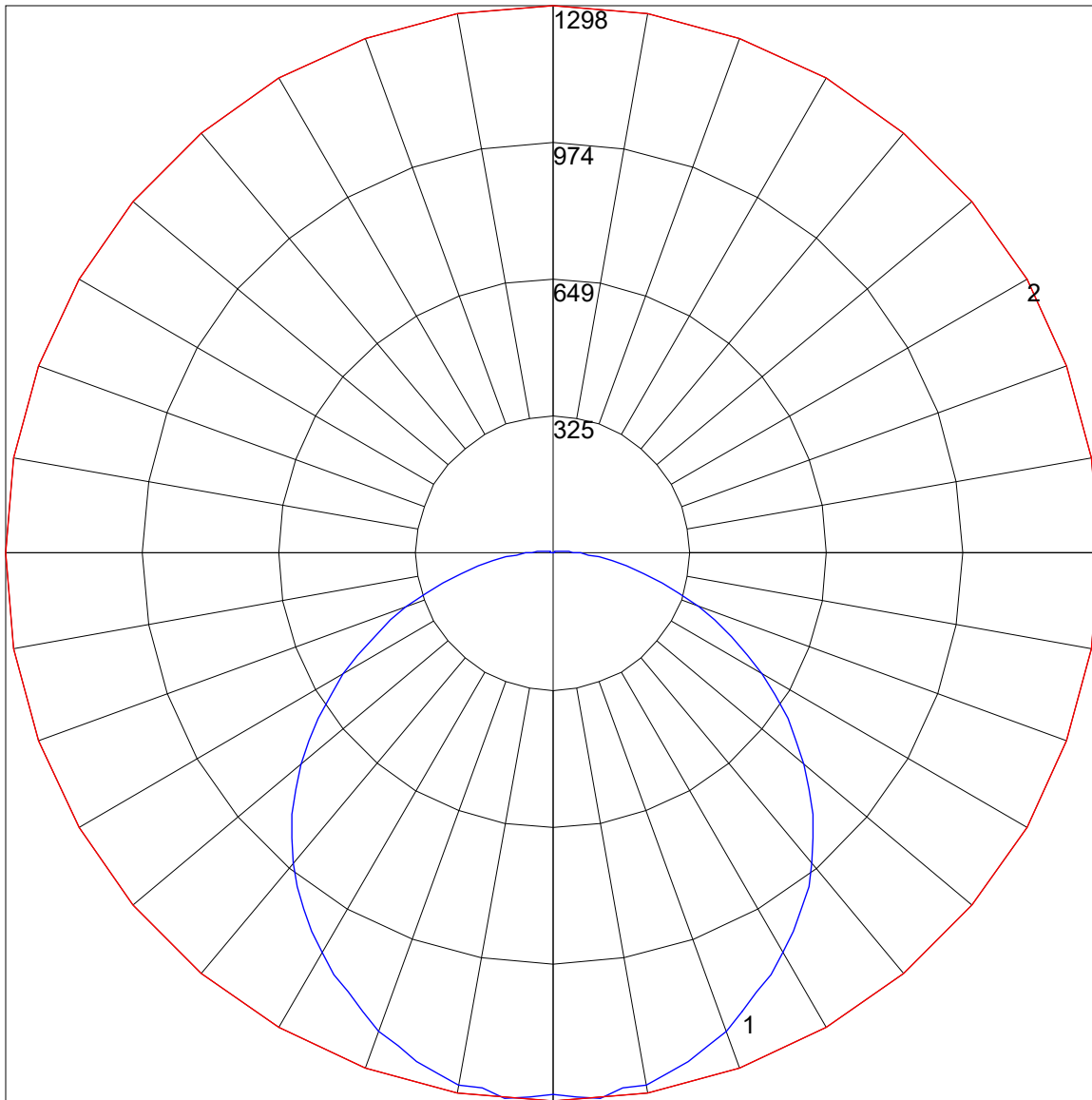
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UGR TABLE - CORRECTED

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	17.6	19.3	18.0	19.6	20.0	18.5	20.1	18.9	20.5	20.9
	3H	19.2	20.6	19.6	21.0	21.4	20.3	21.7	20.7	22.1	22.5
	4H	19.7	21.1	20.1	21.4	21.9	20.9	22.3	21.4	22.7	23.1
	6H	20.0	21.3	20.5	21.7	22.2	21.4	22.7	21.9	23.1	23.6
	8H	20.2	21.4	20.6	21.8	22.3	21.6	22.8	22.1	23.3	23.7
	12H	20.2	21.4	20.7	21.8	22.3	21.8	23.0	22.2	23.4	23.8
4H	2H	18.2	19.6	18.7	20.0	20.4	19.0	20.3	19.4	20.7	21.2
	3H	19.9	21.1	20.4	21.5	22.0	20.9	22.1	21.3	22.5	22.9
	4H	20.6	21.6	21.0	22.1	22.6	21.7	22.7	22.1	23.2	23.6
	6H	21.0	22.0	21.5	22.5	23.0	22.3	23.2	22.8	23.7	24.2
	8H	21.2	22.1	21.7	22.6	23.1	22.5	23.4	23.0	23.9	24.4
	12H	21.3	22.1	21.8	22.6	23.1	22.7	23.5	23.2	24.0	24.5
8H	4H	20.9	21.7	21.3	22.2	22.7	21.8	22.7	22.3	23.2	23.7
	6H	21.4	22.2	22.0	22.7	23.2	22.5	23.3	23.1	23.8	24.3
	8H	21.7	22.3	22.2	22.8	23.4	22.9	23.5	23.4	24.0	24.6
	12H	21.8	22.4	22.4	23.0	23.6	23.1	23.7	23.7	24.2	24.9
12H	4H	20.9	21.7	21.4	22.2	22.7	21.8	22.6	22.3	23.1	23.7
	6H	21.5	22.2	22.0	22.6	23.2	22.6	23.2	23.1	23.7	24.3
	8H	21.7	22.3	22.3	22.9	23.5	22.9	23.5	23.4	24.0	24.6

Maximum UGR = 24.9

POLAR GRAPH



Maximum Candela = 1298.33 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.)