

IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS100LED4HTHOWT30120-277V_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 13:09:52 2021

[TEST] 1

[MANUFAC] BEGHELLI

[LUMCAT] LINEAR - INDOOR / OUTDOOR LUMINAIRE

[LUMINAIRE] BS100LED4HTHOWT30120-277V_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	8318
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	139
Total Luminaire Watts	60
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.24
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	10932	8140	7573
55	10121	6859	6267
65	8929	5314	4750
75	7421	3580	3109
85	6187	1901	1580

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CANDELA TABULATION

	<u>0</u>
0.0	2859.41
2.5	2822.19
5.0	2851.47
7.5	2802.65
10.0	2761.62
12.5	2725.28
15.0	2702.15
17.5	2657.37
20.0	2616.13
22.5	2559.43
25.0	2499.12
27.5	2427.94
30.0	2368.99
32.5	2299.39
35.0	2228.40
37.5	2159.07
40.0	2068.03
42.5	1989.26
45.0	1891.68
47.5	1782.04
50.0	1684.82
52.5	1577.37
55.0	1463.74
57.5	1344.83
60.0	1229.69
62.5	1117.89
65.0	998.42
67.5	883.99
70.0	780.04
72.5	672.34
75.0	561.01
77.5	465.27
80.0	373.68
82.5	294.45
85.0	229.47
87.5	173.35
90.0	130.17
92.5	97.47
95.0	72.41
97.5	55.86
100.0	43.00
102.5	32.65
105.0	27.00
107.5	21.64
110.0	16.97
112.5	13.68
115.0	10.92
117.5	8.45
120.0	6.73
122.5	5.11
125.0	3.71
127.5	2.08
130.0	1.25
132.5	0.67

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CANDELA TABULATION - (Cont.)

135.0	0.41
137.5	0.09
140.0	0.07
142.5	0.06
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	1029.69	N.A.	12.40
0-30	2181.00	N.A.	26.20
0-40	3576.00	N.A.	43.00
0-60	6338.18	N.A.	76.20
0-80	7929.42	N.A.	95.30
0-90	8188.00	N.A.	98.40
10-90	7919.76	N.A.	95.20
20-40	2546.31	N.A.	30.60
20-50	4001.85	N.A.	48.10
40-70	3753.19	N.A.	45.10
60-80	1591.24	N.A.	19.10
70-80	600.23	N.A.	7.20
80-90	258.59	N.A.	3.10
90-110	114.82	N.A.	1.40
90-120	126.03	N.A.	1.50
90-130	129.42	N.A.	1.60
90-150	129.80	N.A.	1.60
90-180	129.80	N.A.	1.60
110-180	14.98	N.A.	0.20
0-180	8317.8	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	268.24
10-20	761.45
20-30	1151.31
30-40	1395.00
40-50	1455.54
50-60	1306.64
60-70	991.01
70-80	600.23
80-90	258.59
90-100	85.30
100-110	29.52
110-120	11.21
120-130	3.39
130-140	0.37
140-150	0.02
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	83	78	73	80	75	71	77	73	70	67
3	89	78	70	63	86	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	32	28	38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	35	29	25	23

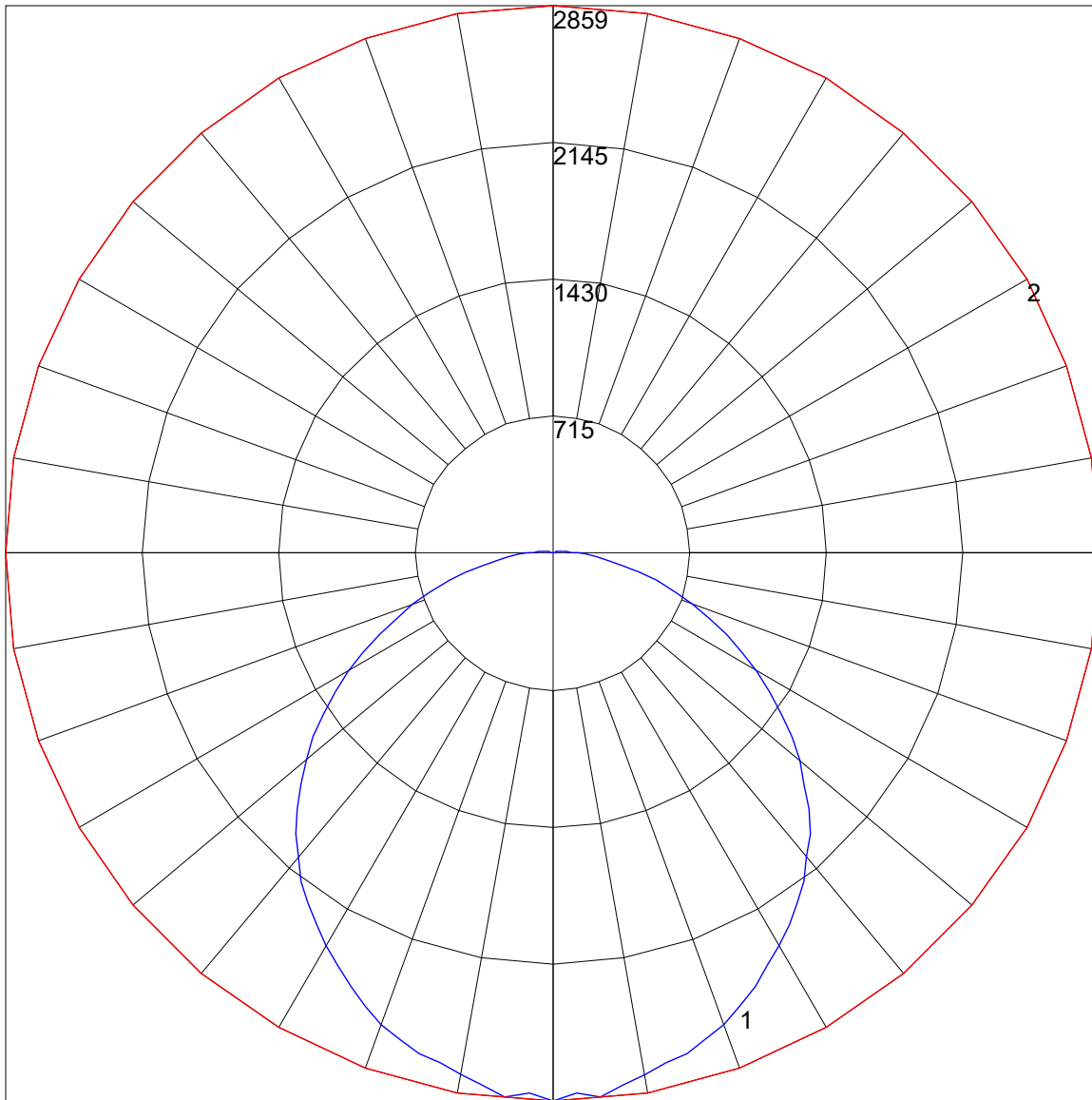
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UGR TABLE - CORRECTED

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	23.8	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	23.8	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	23.2	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	24.7	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 = 2859.41 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.)