

IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS100LED4HTVLOWT35120-277V_S.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TESTLAB] Photopia 2022.0.0 see: www.ltioptics.com/ies

[ISSUEDATE]

[TESTDATE] Mon Jun 06 14:20:54 2022

[TEST] 1

[MANUFAC] BEGHELLI

[LUMCAT] LINEAR - INDOOR / OUTDOOR LUMINAIRE

[LUMINAIRE] BS100LED4HTVLOWT35120-277V

[LAMP] LED 0.915W DURIS S 5 3030 (150mA)

[LAMPCAT] GW PSLRS1.PC-LRLT-5L7N-1

[OTHER]

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4648
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	155
Total Luminaire Watts	30
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	6072	4521	4206
55	5647	3828	3497
65	4992	2971	2655
75	4146	2001	1737
85	3457	1062	883

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CANDELA TABULATION

	<u>0</u>
0.0	1588.860
2.5	1603.555
5.0	1600.588
7.5	1577.961
10.0	1546.022
12.5	1531.427
15.0	1512.047
17.5	1479.010
20.0	1455.843
22.5	1417.351
25.0	1397.471
27.5	1361.437
30.0	1325.973
32.5	1289.729
35.0	1247.531
37.5	1204.355
40.0	1153.096
42.5	1106.672
45.0	1050.798
47.5	1000.079
50.0	944.065
52.5	880.449
55.0	816.772
57.5	754.954
60.0	684.505
62.5	623.985
65.0	558.141
67.5	497.662
70.0	434.825
72.5	372.897
75.0	313.466
77.5	260.769
80.0	209.690
82.5	163.816
85.0	128.212
87.5	97.732
90.0	73.327
92.5	54.006
95.0	40.310
97.5	31.279
100.0	24.216
102.5	19.301
105.0	15.764
107.5	12.438
110.0	9.780
112.5	7.742
115.0	6.054
117.5	4.735
120.0	3.566
122.5	2.627
125.0	2.038
127.5	1.299
130.0	0.639
132.5	0.390

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CANDELA TABULATION - (Cont.)

135.0	0.190
137.5	0.120
140.0	0.020
142.5	0.010
145.0	0.020
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	576.31	N.A.	12.40
0-30	1218.86	N.A.	26.20
0-40	1999.05	N.A.	43.00
0-60	3541.62	N.A.	76.20
0-80	4430.62	N.A.	95.30
0-90	4575.35	N.A.	98.40
10-90	4424.51	N.A.	95.20
20-40	1422.73	N.A.	30.60
20-50	2234.86	N.A.	48.10
40-70	2096.71	N.A.	45.10
60-80	889.00	N.A.	19.10
70-80	334.85	N.A.	7.20
80-90	144.73	N.A.	3.10
90-110	64.73	N.A.	1.40
90-120	71.03	N.A.	1.50
90-130	72.86	N.A.	1.60
90-150	73.07	N.A.	1.60
90-180	73.07	N.A.	1.60
110-180	8.34	N.A.	0.20
0-180	4648.42	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	150.84
10-20	425.47
20-30	642.55
30-40	780.18
40-50	812.13
50-60	730.44
60-70	554.15
70-80	334.85
80-90	144.73
90-100	47.62
100-110	17.11
110-120	6.29
120-130	1.83
130-140	0.21
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

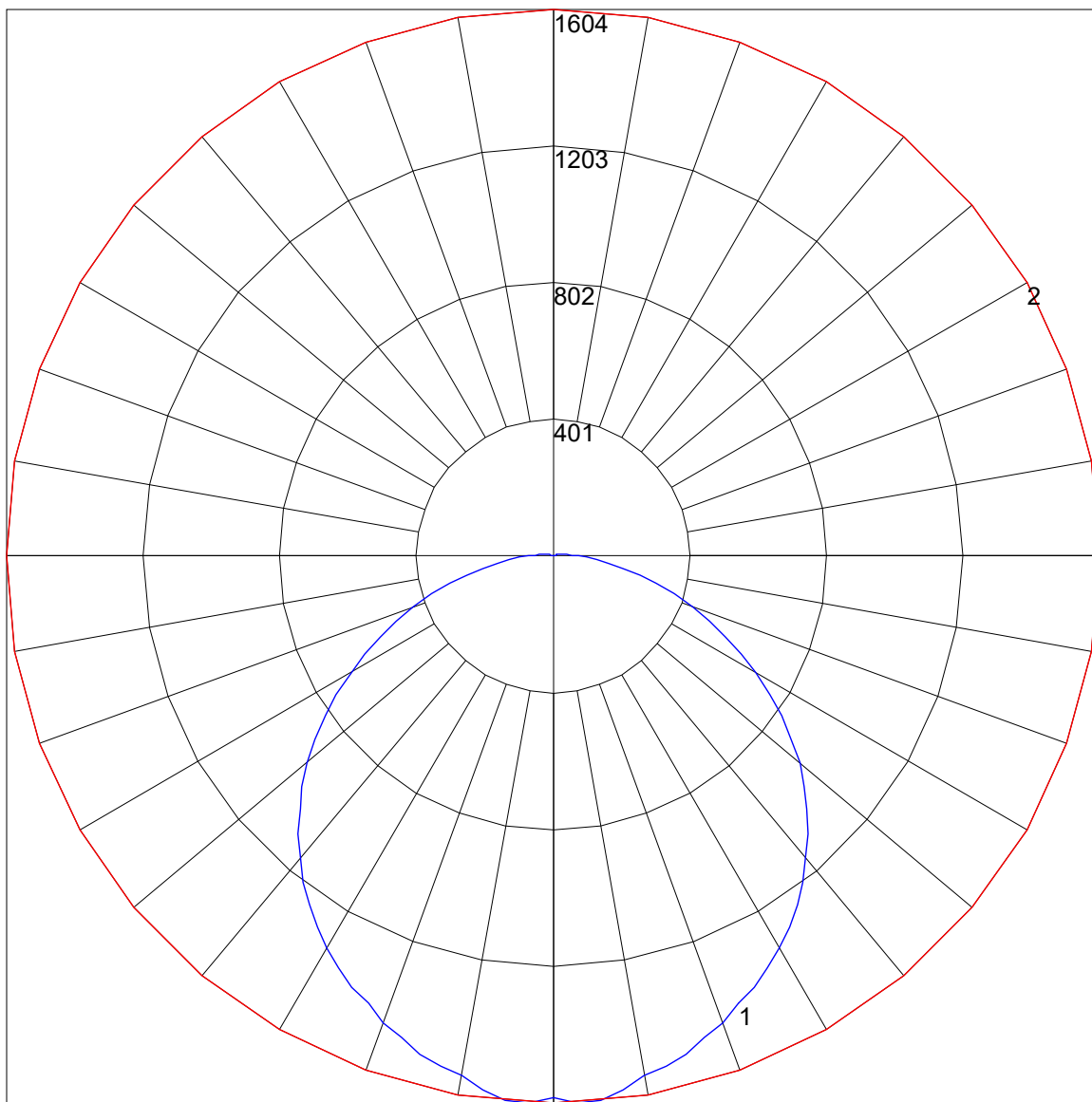
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UGR TABLE - CORRECTED

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	16.1	17.7	16.5	18.1	18.5	17.2	18.8	17.6	19.1	19.5
	3H	17.6	19.1	18.0	19.4	19.8	18.9	20.4	19.3	20.7	21.1
	4H	18.1	19.5	18.5	19.9	20.3	19.6	20.9	20.0	21.3	21.7
	6H	18.4	19.7	18.9	20.1	20.6	20.1	21.4	20.5	21.8	22.2
	8H	18.5	19.8	19.0	20.2	20.6	20.3	21.5	20.7	21.9	22.4
	12H	18.6	19.8	19.1	20.2	20.7	20.5	21.6	20.9	22.0	22.5
4H	2H	16.7	18.1	17.1	18.5	18.9	17.6	18.9	18.0	19.3	19.7
	3H	18.4	19.5	18.8	20.0	20.4	19.5	20.6	19.9	21.1	21.5
	4H	19.0	20.0	19.4	20.5	21.0	20.2	21.3	20.7	21.8	22.2
	6H	19.5	20.4	19.9	20.8	21.3	20.9	21.8	21.4	22.3	22.8
	8H	19.6	20.5	20.1	20.9	21.4	21.2	22.0	21.6	22.5	23.0
	12H	19.7	20.5	20.2	21.0	21.5	21.4	22.2	21.9	22.7	23.2
8H	4H	19.3	20.1	19.8	20.6	21.1	20.4	21.3	20.9	21.8	22.3
	6H	19.8	20.6	20.4	21.1	21.6	21.2	21.9	21.7	22.4	22.9
	8H	20.0	20.7	20.6	21.2	21.8	21.5	22.1	22.0	22.7	23.2
	12H	20.2	20.8	20.8	21.3	21.9	21.8	22.4	22.3	22.9	23.5
12H	4H	19.3	20.1	19.8	20.6	21.1	20.4	21.2	20.9	21.7	22.2
	6H	19.9	20.6	20.4	21.0	21.6	21.2	21.8	21.7	22.3	22.9
	8H	20.2	20.7	20.7	21.2	21.8	21.5	22.1	22.1	22.6	23.2

Maximum UGR = 23.5

POLAR GRAPH



Maximum Candela = 1603.555 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.)