

IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS100LED4HTHOWT35120-277V_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 12:34:14 2022

[TEST] 1

[MANUFAC] BEGHELLI

[LUMCAT] LINEAR - INDOOR / OUTDOOR LUMINAIRE

[LUMINAIRE] BS100LED4HTHOWT35120-277V

[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	8861
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	148
Total Luminaire Watts	60
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	11606	8642	8040
55	10790	7313	6681
65	9516	5663	5062
75	8012	3866	3357
85	6525	2005	1666

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CANDELA TABULATION

	<u>0</u>
0.0	2964.403
2.5	3032.495
5.0	3030.846
7.5	3013.963
10.0	2939.218
12.5	2930.237
15.0	2870.117
17.5	2831.476
20.0	2796.541
22.5	2734.433
25.0	2681.586
27.5	2607.660
30.0	2531.446
32.5	2457.190
35.0	2373.274
37.5	2288.170
40.0	2197.570
42.5	2096.192
45.0	2008.450
47.5	1902.895
50.0	1791.247
52.5	1673.395
55.0	1560.468
57.5	1433.645
60.0	1303.375
62.5	1182.816
65.0	1064.015
67.5	943.426
70.0	830.479
72.5	713.316
75.0	605.744
77.5	494.535
80.0	400.279
82.5	313.496
85.0	242.028
87.5	185.364
90.0	139.870
92.5	104.515
95.0	79.081
97.5	60.110
100.0	45.854
102.5	35.844
105.0	28.222
107.5	23.267
110.0	18.661
112.5	14.046
115.0	11.568
117.5	9.071
120.0	6.833
122.5	4.915
125.0	3.497
127.5	2.527
130.0	1.568
132.5	0.799

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CANDELA TABULATION - (Cont.)

135.0	0.470
137.5	0.130
140.0	0.090
142.5	0.040
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	1099.19	N.A.	12.40
0-30	2332.4	N.A.	26.30
0-40	3817.62	N.A.	43.10
0-60	6752.45	N.A.	76.20
0-80	8446.62	N.A.	95.30
0-90	8722.03	N.A.	98.40
10-90	8435.42	N.A.	95.20
20-40	2718.43	N.A.	30.70
20-50	4263.49	N.A.	48.10
40-70	3988.27	N.A.	45.00
60-80	1694.17	N.A.	19.10
70-80	640.73	N.A.	7.20
80-90	275.41	N.A.	3.10
90-110	123.65	N.A.	1.40
90-120	135.49	N.A.	1.50
90-130	138.93	N.A.	1.60
90-150	139.39	N.A.	1.60
90-180	139.39	N.A.	1.60
110-180	15.74	N.A.	0.20
0-180	8861.42	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	286.62
10-20	812.57
20-30	1233.21
30-40	1485.22
40-50	1545.06
50-60	1389.77
60-70	1053.44
70-80	640.73
80-90	275.41
90-100	91.92
100-110	31.73
110-120	11.84
120-130	3.44
130-140	0.45
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	51	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

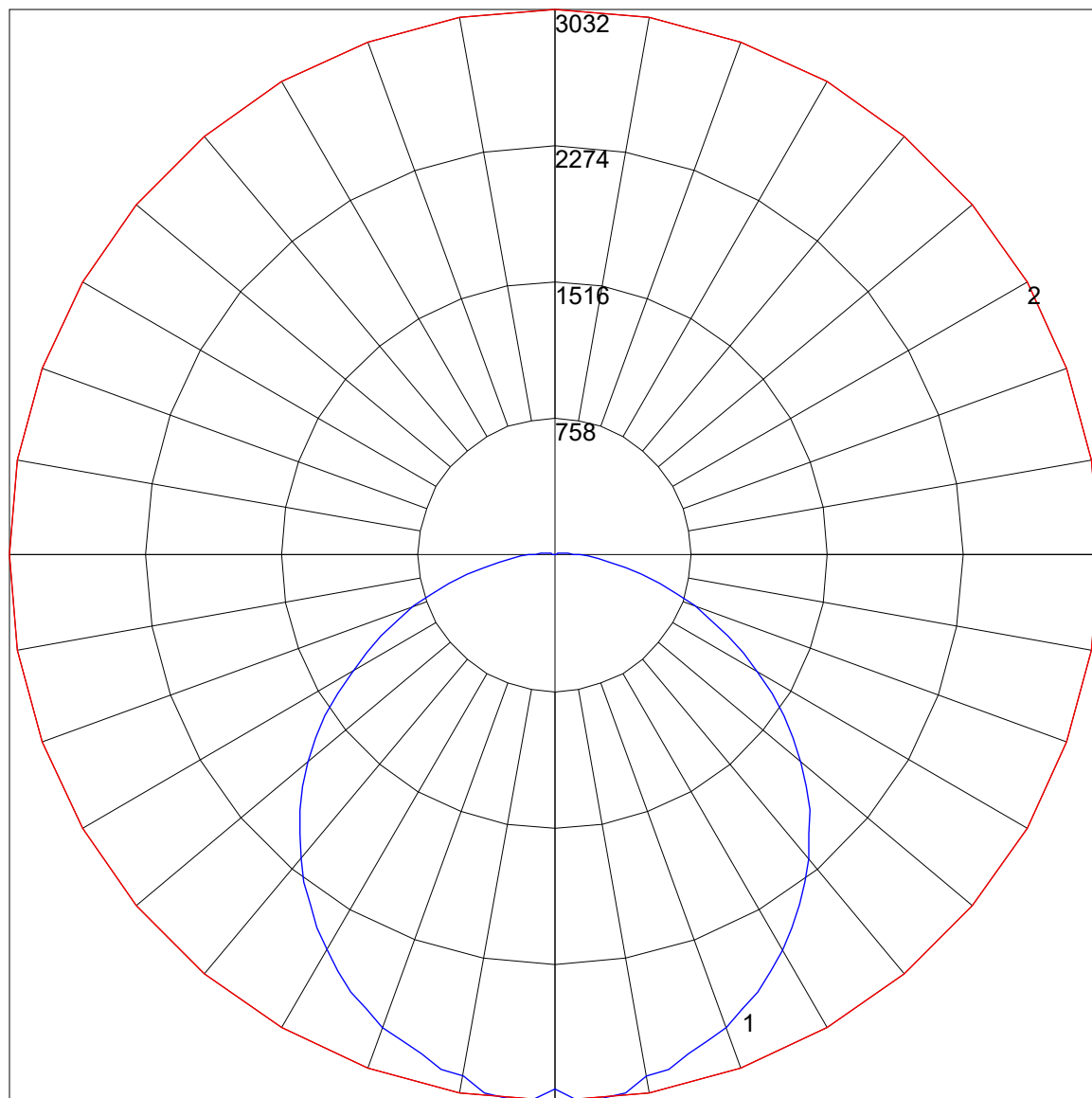
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UGR TABLE - CORRECTED

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	18.4	20.0	18.8	20.4	20.7	19.4	21.0	19.8	21.4	21.8
	3H	19.9	21.3	20.3	21.7	22.1	21.2	22.6	21.6	23.0	23.4
	4H	20.4	21.7	20.8	22.1	22.6	21.8	23.2	22.3	23.6	24.0
	6H	20.7	22.0	21.2	22.4	22.8	22.4	23.7	22.8	24.1	24.5
	8H	20.8	22.0	21.3	22.5	22.9	22.6	23.8	23.0	24.2	24.7
	12H	20.9	22.1	21.4	22.5	23.0	22.7	23.9	23.2	24.3	24.8
4H	2H	19.0	20.4	19.4	20.8	21.2	19.8	21.2	20.3	21.6	22.0
	3H	20.7	21.8	21.1	22.3	22.7	21.8	22.9	22.2	23.4	23.8
	4H	21.3	22.3	21.7	22.8	23.3	22.5	23.6	23.0	24.1	24.5
	6H	21.8	22.7	22.2	23.1	23.6	23.2	24.1	23.7	24.6	25.1
	8H	21.9	22.7	22.4	23.2	23.7	23.5	24.3	23.9	24.8	25.3
	12H	22.0	22.8	22.5	23.3	23.8	23.7	24.5	24.2	25.0	25.5
8H	4H	21.6	22.4	22.1	22.9	23.4	22.7	23.6	23.2	24.1	24.6
	6H	22.1	22.9	22.7	23.4	23.9	23.5	24.2	24.0	24.7	25.2
	8H	22.3	23.0	22.9	23.5	24.1	23.8	24.4	24.3	25.0	25.5
	12H	22.5	23.1	23.1	23.6	24.2	24.1	24.7	24.6	25.2	25.8
12H	4H	21.6	22.4	22.1	22.9	23.4	22.7	23.5	23.2	24.0	24.5
	6H	22.2	22.8	22.7	23.3	23.9	23.5	24.1	24.0	24.6	25.2
	8H	22.4	23.0	23.0	23.5	24.1	23.8	24.4	24.4	24.9	25.5

Maximum UGR = 25.8

POLAR GRAPH



Maximum Candela = 3032.495 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.)