

IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS100LED2HTMOWT35120-277V_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 15:28:55 2022

[TEST] 1

[MANUFAC] BEGHELLI

[LUMCAT] LINEAR - INDOOR / OUTDOOR LUMINAIRE

[LUMINAIRE] BS100LED2HTMOWT35120-277V_S

[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	5503
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	138
Total Luminaire Watts	40
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	13063	9909	9475
55	11883	8298	7848
65	10318	6453	6024
75	8277	4376	4017
85	5987	2300	2059

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CANDELA TABULATION

<u>0</u>	
0.0	1823.591
2.5	1854.222
5.0	1853.443
7.5	1825.718
10.0	1815.182
12.5	1796.146
15.0	1766.474
17.5	1740.107
20.0	1711.913
22.5	1677.387
25.0	1637.398
27.5	1593.903
30.0	1556.171
32.5	1502.020
35.0	1462.870
37.5	1407.930
40.0	1352.630
42.5	1299.747
45.0	1237.846
47.5	1170.741
50.0	1103.357
52.5	1034.664
55.0	961.028
57.5	889.729
60.0	816.462
62.5	742.376
65.0	665.813
67.5	590.829
70.0	519.190
72.5	452.055
75.0	382.593
77.5	315.818
80.0	255.725
82.5	204.560
85.0	158.748
87.5	123.004
90.0	93.062
92.5	70.700
95.0	53.682
97.5	41.208
100.0	32.988
102.5	26.327
105.0	21.623
107.5	18.526
110.0	14.352
112.5	12.324
115.0	10.307
117.5	8.639
120.0	6.881
122.5	5.263
125.0	3.965
127.5	3.116
130.0	2.427
132.5	1.428

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CANDELA TABULATION - (Cont.)

135.0	1.228
137.5	0.599
140.0	0.429
142.5	0.220
145.0	0.130
147.5	0.100
150.0	0.180
152.5	0.310
155.0	0.260
157.5	0.350
160.0	0.429
162.5	0.469
165.0	0.799
167.5	0.769
170.0	0.549
172.5	0.569
175.0	0.729
177.5	0.529
180.0	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	674.27	N.A.	12.30
0-30	1429.2	N.A.	26.00
0-40	2341.95	N.A.	42.60
0-60	4155.02	N.A.	75.50
0-80	5220.62	N.A.	94.90
0-90	5400.63	N.A.	98.10
10-90	5225.57	N.A.	95.00
20-40	1667.68	N.A.	30.30
20-50	2620.74	N.A.	47.60
40-70	2472.96	N.A.	44.90
60-80	1065.61	N.A.	19.40
70-80	405.71	N.A.	7.40
80-90	180.00	N.A.	3.30
90-110	86.34	N.A.	1.60
90-120	96.78	N.A.	1.80
90-130	100.63	N.A.	1.80
90-150	101.68	N.A.	1.80
90-180	102.05	N.A.	1.90
110-180	15.71	N.A.	0.30
0-180	5502.68	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	175.05
10-20	499.22
20-30	754.93
30-40	912.75
40-50	953.06
50-60	860.00
60-70	659.90
70-80	405.71
80-90	180.00
90-100	62.43
100-110	23.91
110-120	10.44
120-130	3.85
130-140	0.93
140-150	0.12
150-160	0.14
160-170	0.17
170-180	0.06

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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	95	92	89	91	88	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	62	58	56
4	81	69	60	53	79	68	59	53	65	58	52	62	56	51	60	54	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	26	51	38	31	25	37	30	25	36	30	25	35	29	25	23

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UGR TABLE - CORRECTED

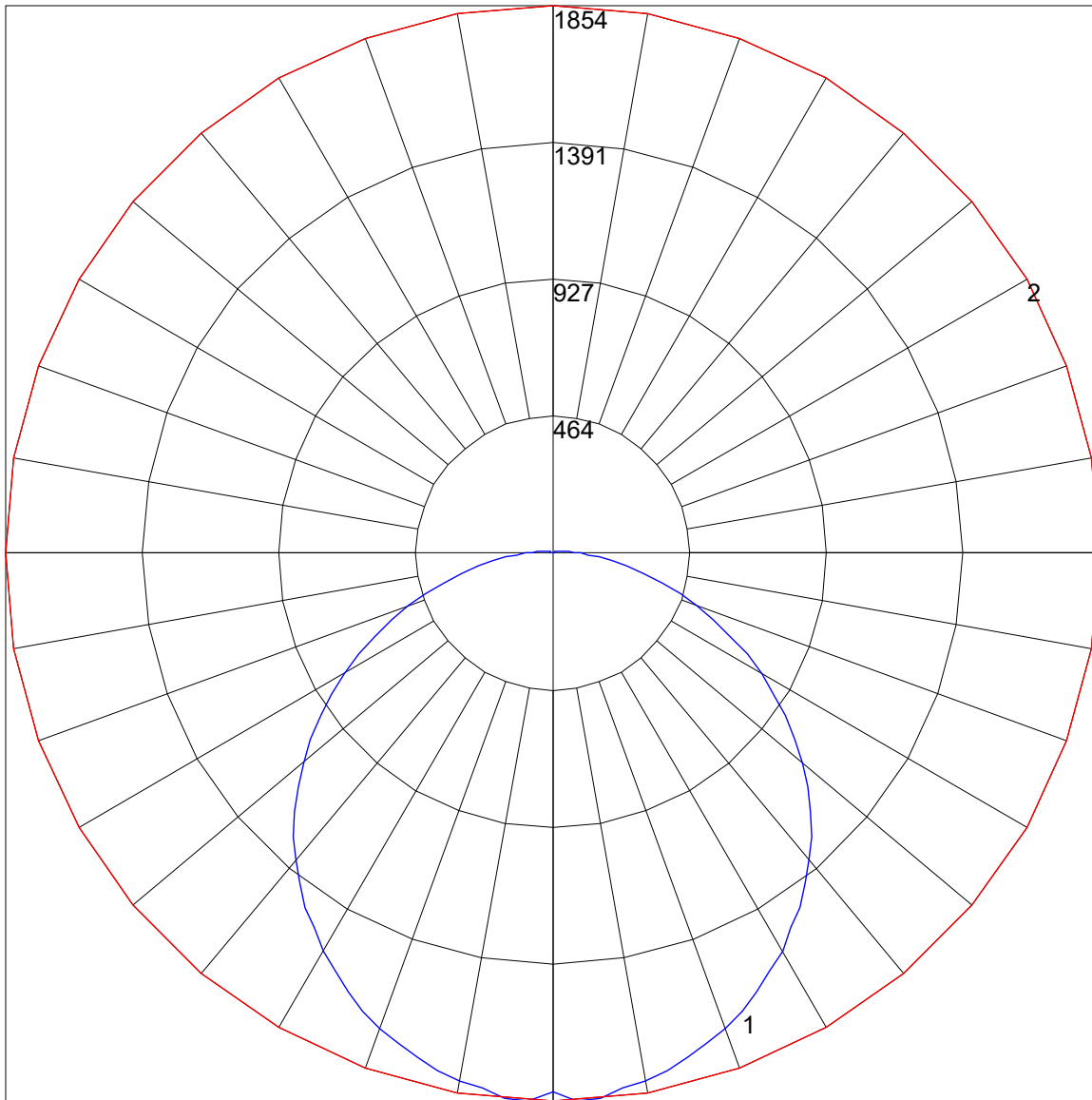
Reflectances

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	18.9	20.5	19.3	20.8	21.2	19.8	21.4	20.2	21.7	22.1
	3H	20.4	21.8	20.8	22.2	22.6	21.5	22.9	21.9	23.3	23.7
	4H	20.9	22.3	21.3	22.7	23.1	22.1	23.5	22.6	23.9	24.3
	6H	21.3	22.5	21.7	22.9	23.4	22.6	23.9	23.1	24.3	24.8
	8H	21.4	22.6	21.8	23.0	23.5	22.8	24.1	23.3	24.5	24.9
	12H	21.5	22.6	21.9	23.1	23.5	23.0	24.2	23.5	24.6	25.1
4H	2H	19.5	20.8	19.9	21.2	21.7	20.2	21.6	20.6	22.0	22.4
	3H	21.2	22.3	21.6	22.8	23.2	22.1	23.3	22.5	23.7	24.1
	4H	21.8	22.9	22.3	23.3	23.8	22.9	23.9	23.3	24.4	24.9
	6H	22.3	23.2	22.7	23.7	24.2	23.5	24.4	24.0	24.9	25.4
	8H	22.4	23.3	22.9	23.8	24.3	23.7	24.6	24.2	25.1	25.6
	12H	22.5	23.3	23.1	23.8	24.4	23.9	24.7	24.4	25.2	25.8
8H	4H	22.1	22.9	22.6	23.4	23.9	23.0	23.9	23.5	24.4	24.9
	6H	22.6	23.4	23.2	23.9	24.4	23.8	24.5	24.3	25.0	25.5
	8H	22.9	23.5	23.4	24.1	24.6	24.1	24.7	24.6	25.3	25.8
	12H	23.1	23.7	23.6	24.2	24.8	24.4	24.9	24.9	25.5	26.1
12H	4H	22.1	22.9	22.6	23.4	23.9	23.0	23.8	23.6	24.4	24.9
	6H	22.7	23.4	23.3	23.9	24.5	23.8	24.5	24.4	25.0	25.5
	8H	23.0	23.6	23.5	24.1	24.7	24.1	24.7	24.7	25.2	25.8

Maximum UGR = 26.1

POLAR GRAPH



Maximum Candela = 1854.222 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.)