

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS100LED2HTLOWT35120-277V\_S.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

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

[ISSUEDATE]

[TESTDATE] Mon Jun 06 15:24:11 2022

[TEST] 1

[MANUFAC] BEGHELLI

[LUMCAT] LINEAR - INDOOR / OUTDOOR LUMINAIRE

[LUMINAIRE] BS100LED2HTLOWT35120-277V\_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	4130
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	138
Total Luminaire Watts	30
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)	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	9785	7423	7097
55	8873	6196	5860
65	7695	4812	4493
75	6180	3268	2999
85	4546	1747	1564

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CANDELA TABULATION

	<u>0</u>
0.0	1418.84
2.5	1379.49
5.0	1395.88
7.5	1387.42
10.0	1372.45
12.5	1358.72
15.0	1331.59
17.5	1310.63
20.0	1288.96
22.5	1262.96
25.0	1232.77
27.5	1202.92
30.0	1169.99
32.5	1135.34
35.0	1095.88
37.5	1059.21
40.0	1014.36
42.5	973.39
45.0	927.24
47.5	877.92
50.0	826.83
52.5	774.39
55.0	717.59
57.5	662.01
60.0	609.41
62.5	554.77
65.0	496.58
67.5	445.04
70.0	391.31
72.5	336.48
75.0	285.66
77.5	237.49
80.0	192.28
82.5	152.86
85.0	120.56
87.5	91.84
90.0	70.07
92.5	52.52
95.0	39.62
97.5	30.40
100.0	24.25
102.5	20.31
105.0	16.31
107.5	13.45
110.0	10.84
112.5	9.19
115.0	7.84
117.5	6.62
120.0	5.05
122.5	3.96
125.0	2.99
127.5	2.40
130.0	1.75
132.5	1.10

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**CANDELA TABULATION - (Cont.)**

<b>135.0</b>	0.90
<b>137.5</b>	0.53
<b>140.0</b>	0.28
<b>142.5</b>	0.19
<b>145.0</b>	0.10
<b>147.5</b>	0.09
<b>150.0</b>	0.13
<b>152.5</b>	0.18
<b>155.0</b>	0.22
<b>157.5</b>	0.39
<b>160.0</b>	0.43
<b>162.5</b>	0.47
<b>165.0</b>	0.36
<b>167.5</b>	0.48
<b>170.0</b>	0.23
<b>172.5</b>	0.40
<b>175.0</b>	0.45
<b>177.5</b>	0.57
<b>180.0</b>	0.00

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	508.88	N.A.	12.30
0-30	1077.53	N.A.	26.10
0-40	1763.93	N.A.	42.70
0-60	3120.43	N.A.	75.60
0-80	3918.31	N.A.	94.90
0-90	4053.56	N.A.	98.20
10-90	3921.23	N.A.	95.00
20-40	1255.05	N.A.	30.40
20-50	1969.25	N.A.	47.70
40-70	1850.62	N.A.	44.80
60-80	797.88	N.A.	19.30
70-80	303.76	N.A.	7.40
80-90	135.25	N.A.	3.30
90-110	64.28	N.A.	1.60
90-120	72.16	N.A.	1.70
90-130	75.04	N.A.	1.80
90-150	75.84	N.A.	1.80
90-180	76.11	N.A.	1.80
110-180	11.83	N.A.	0.30
0-180	4129.67	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	132.33
10-20	376.56
20-30	568.65
30-40	686.40
40-50	714.20
50-60	642.30
60-70	494.12
70-80	303.76
80-90	135.25
90-100	46.35
100-110	17.93
110-120	7.88
120-130	2.89
130-140	0.70
140-150	0.09
150-160	0.12
160-170	0.12
170-180	0.04

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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	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	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	73	60	52	46	58	51	45	56	49	44	54	48	44	41
6	69	56	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	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	30	28
9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	38	32	27	26
10	52	39	31	26	51	38	31	25	37	30	25	36	30	25	35	29	25	23

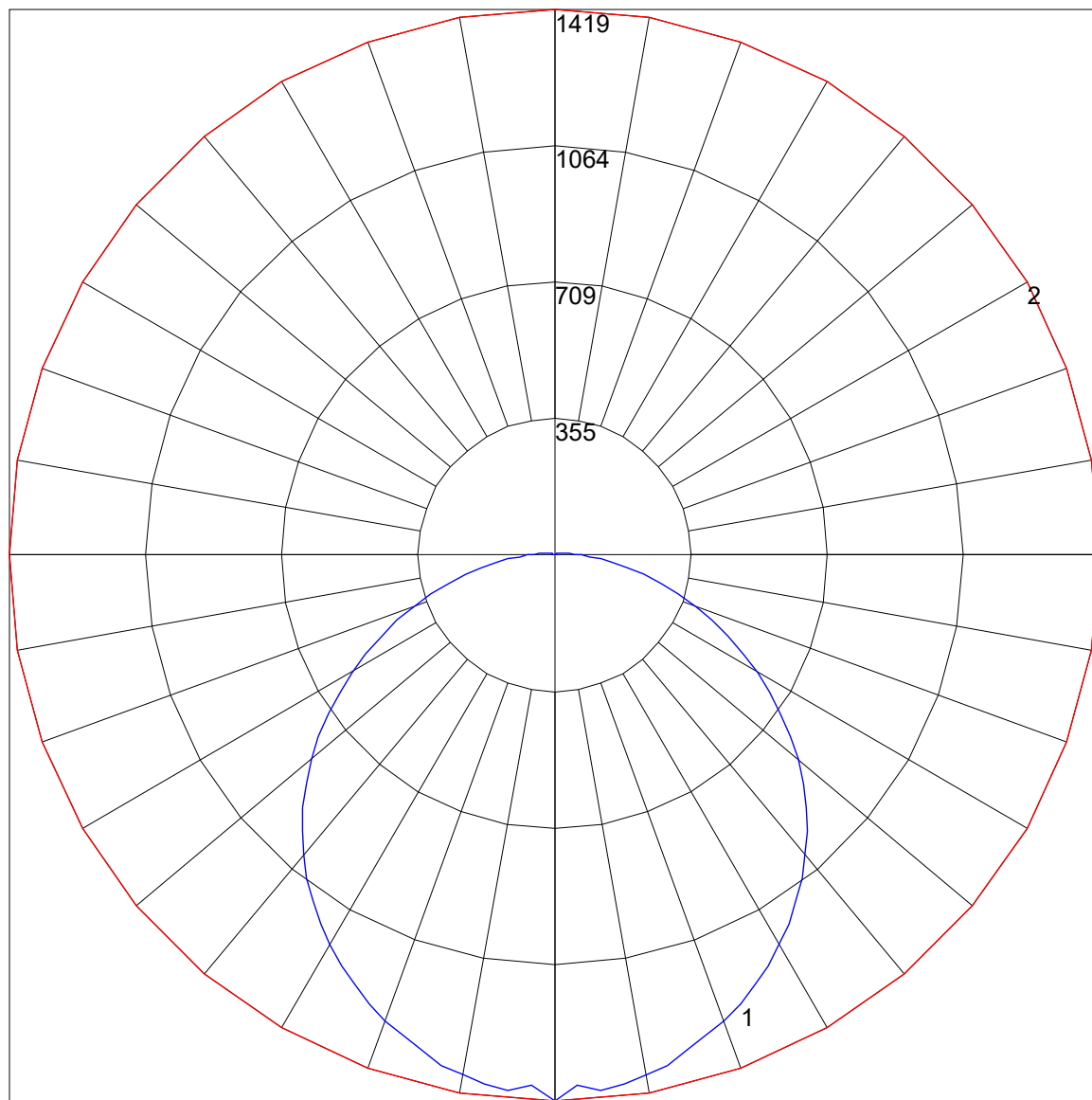
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**UGR TABLE - CORRECTED**

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	17.8	19.4	18.2	19.8	20.2	18.7	20.3	19.1	20.7	21.0
	3H	19.3	20.8	19.8	21.2	21.6	20.5	21.9	20.9	22.3	22.7
	4H	19.9	21.2	20.3	21.6	22.1	21.1	22.5	21.6	22.9	23.3
	6H	20.2	21.5	20.7	21.9	22.4	21.6	22.9	22.1	23.3	23.8
	8H	20.4	21.6	20.8	22.0	22.5	21.8	23.0	22.3	23.5	23.9
	12H	20.4	21.6	20.9	22.0	22.5	22.0	23.2	22.4	23.6	24.1
4H	2H	18.4	19.8	18.8	20.2	20.6	19.1	20.5	19.6	20.9	21.3
	3H	20.1	21.3	20.6	21.7	22.2	21.1	22.2	21.5	22.7	23.1
	4H	20.8	21.8	21.2	22.3	22.8	21.8	22.9	22.3	23.4	23.8
	6H	21.2	22.2	21.7	22.7	23.2	22.5	23.4	23.0	23.9	24.4
	8H	21.4	22.3	21.9	22.8	23.3	22.7	23.6	23.2	24.1	24.6
	12H	21.5	22.3	22.0	22.8	23.3	22.9	23.7	23.4	24.2	24.7
8H	4H	21.0	21.9	21.5	22.4	22.9	22.0	22.9	22.5	23.4	23.9
	6H	21.6	22.4	22.2	22.9	23.4	22.7	23.5	23.3	24.0	24.5
	8H	21.9	22.5	22.4	23.1	23.6	23.1	23.7	23.6	24.3	24.8
	12H	22.0	22.6	22.6	23.2	23.8	23.3	23.9	23.9	24.5	25.1
12H	4H	21.1	21.9	21.6	22.4	22.9	22.0	22.8	22.5	23.3	23.8
	6H	21.7	22.4	22.3	22.9	23.4	22.8	23.4	23.3	23.9	24.5
	8H	22.0	22.5	22.5	23.1	23.7	23.1	23.7	23.7	24.2	24.8

Maximum UGR = 25.1

POLAR GRAPH



Maximum Candela = 1418.84 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.)