

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS100LED4HTVHOWT35120-277V\_P.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TESTLAB] Photopia 2020.1.0 see: [www.ltioptics.com/ies](http://www.ltioptics.com/ies)

[ISSUEDATE]

[TESTDATE] Fri Apr 16 16:08:26 2021

[TEST] 1

[MANUFAC] BEGHELLI

[LUMCAT] LINEAR - INDOOR / OUTDOOR LUMINAIRE

[LUMINAIRE] BS100LED4HTVHOWT35120-277V\_P

[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	10343
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	148
Total Luminaire Watts	70
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.28
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	13560	10097	9394
55	12565	8516	7781
65	11153	6637	5933
75	9257	4466	3878
85	7625	2343	1947

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CANDELA TABULATION

	<u>0</u>
0.0	3501.457
2.5	3474.578
5.0	3505.262
7.5	3481.782
10.0	3451.324
12.5	3398.726
15.0	3373.329
17.5	3297.392
20.0	3261.345
22.5	3173.805
25.0	3115.410
27.5	3036.603
30.0	2950.753
32.5	2883.417
35.0	2782.583
37.5	2670.401
40.0	2575.544
42.5	2460.633
45.0	2346.591
47.5	2216.508
50.0	2088.701
52.5	1956.616
55.0	1817.290
57.5	1680.287
60.0	1538.600
62.5	1384.225
65.0	1247.023
67.5	1100.843
70.0	959.119
72.5	830.527
75.0	699.802
77.5	576.602
80.0	465.232
82.5	363.322
85.0	282.825
87.5	214.744
90.0	162.269
92.5	120.330
95.0	91.534
97.5	68.497
100.0	53.023
102.5	41.938
105.0	33.045
107.5	26.700
110.0	21.658
112.5	17.920
115.0	13.161
117.5	10.574
120.0	7.572
122.5	6.052
125.0	4.607
127.5	3.050
130.0	1.841
132.5	0.963

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : BS100LED4HTVHOWT35120-277V\_P.IES****CANDELA TABULATION - (Cont.)**

<b>135.0</b>	0.312
<b>137.5</b>	0.113
<b>140.0</b>	0.094
<b>142.5</b>	0.019
<b>145.0</b>	0.000
<b>147.5</b>	0.000
<b>150.0</b>	0.000
<b>152.5</b>	0.000
<b>155.0</b>	0.000
<b>157.5</b>	0.000
<b>160.0</b>	0.000
<b>162.5</b>	0.000
<b>165.0</b>	0.000
<b>167.5</b>	0.000
<b>170.0</b>	0.000
<b>172.5</b>	0.000
<b>175.0</b>	0.000
<b>177.5</b>	0.000
<b>180.0</b>	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1280.88	N.A.	12.40
0-30	2715.44	N.A.	26.30
0-40	4453.78	N.A.	43.10
0-60	7885.42	N.A.	76.20
0-80	9861.49	N.A.	95.30
0-90	10181.5	N.A.	98.40
10-90	9849.24	N.A.	95.20
20-40	3172.9	N.A.	30.70
20-50	4979.16	N.A.	48.10
40-70	4664.05	N.A.	45.10
60-80	1976.07	N.A.	19.10
70-80	743.66	N.A.	7.20
80-90	320.00	N.A.	3.10
90-110	142.86	N.A.	1.40
90-120	156.91	N.A.	1.50
90-130	161.09	N.A.	1.60
90-150	161.58	N.A.	1.60
90-180	161.58	N.A.	1.60
110-180	18.72	N.A.	0.20
0-180	10343.07	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	332.25
10-20	948.63
20-30	1434.56
30-40	1738.34
40-50	1806.25
50-60	1625.38
60-70	1232.42
70-80	743.66
80-90	320.00
90-100	105.97
100-110	36.89
110-120	14.05
120-130	4.18
130-140	0.47
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

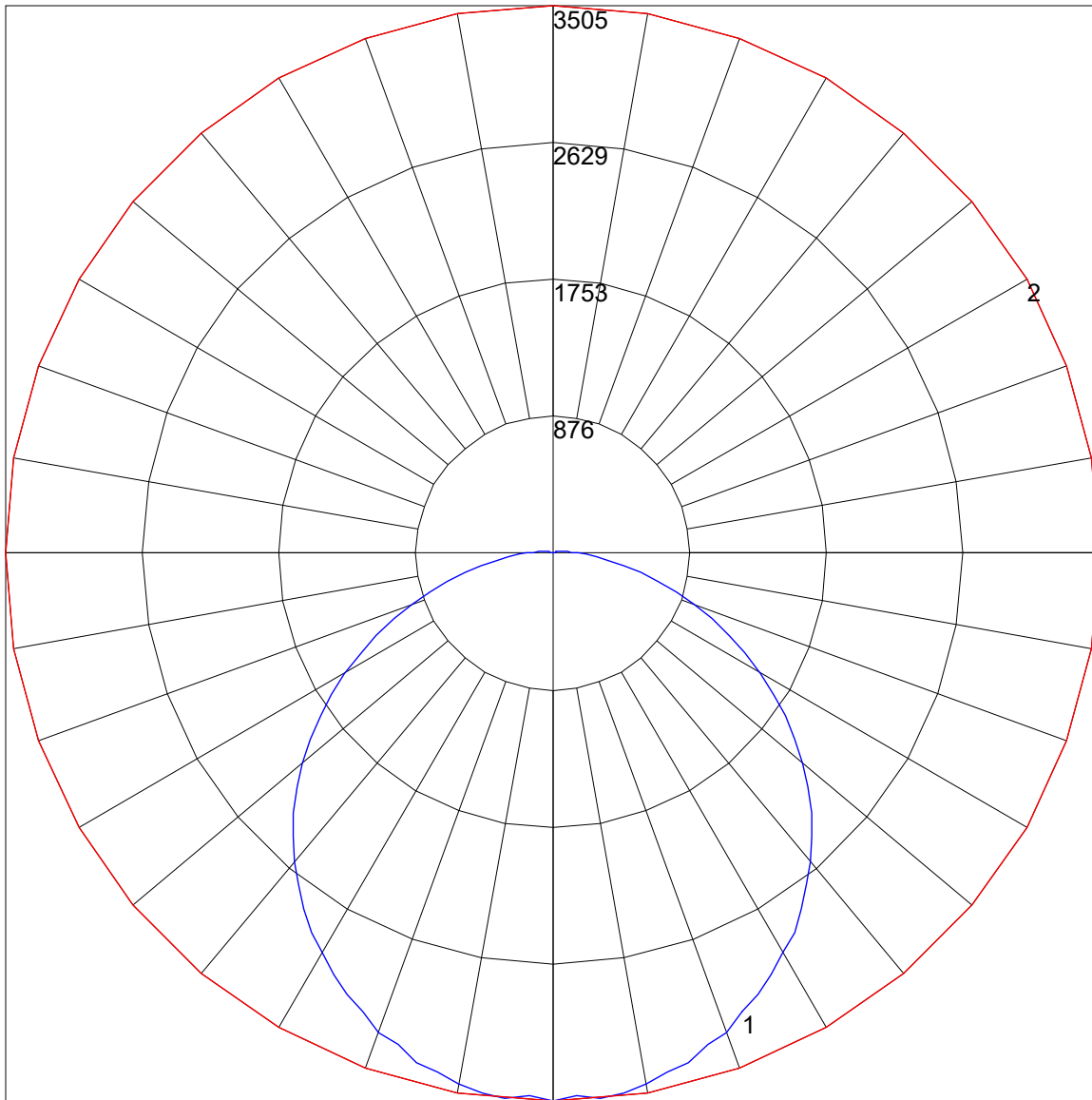
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**UGR TABLE - CORRECTED**

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	18.9	20.5	19.3	20.9	21.3	20.0	21.6	20.4	21.9	22.3
	3H	20.4	21.8	20.8	22.2	22.6	21.7	23.1	22.1	23.5	23.9
	4H	20.9	22.2	21.3	22.6	23.1	22.3	23.7	22.8	24.1	24.5
	6H	21.2	22.5	21.7	22.9	23.3	22.9	24.1	23.3	24.5	25.0
	8H	21.3	22.5	21.8	23.0	23.4	23.1	24.3	23.5	24.7	25.2
	12H	21.4	22.6	21.9	23.0	23.5	23.2	24.4	23.7	24.8	25.3
4H	2H	19.5	20.9	19.9	21.3	21.7	20.4	21.7	20.8	22.1	22.5
	3H	21.2	22.3	21.6	22.8	23.2	22.3	23.4	22.7	23.9	24.3
	4H	21.8	22.8	22.2	23.3	23.8	23.0	24.1	23.5	24.5	25.0
	6H	22.2	23.2	22.7	23.6	24.1	23.7	24.6	24.2	25.1	25.6
	8H	22.4	23.2	22.9	23.7	24.2	23.9	24.8	24.4	25.3	25.8
	12H	22.5	23.3	23.0	23.8	24.3	24.2	24.9	24.7	25.4	26.0
8H	4H	22.1	22.9	22.6	23.4	23.9	23.2	24.1	23.7	24.6	25.1
	6H	22.6	23.3	23.1	23.9	24.4	23.9	24.7	24.4	25.2	25.7
	8H	22.8	23.5	23.4	24.0	24.5	24.2	24.9	24.8	25.4	26.0
	12H	23.0	23.6	23.5	24.1	24.7	24.6	25.1	25.1	25.7	26.3
12H	4H	22.1	22.9	22.6	23.4	23.9	23.2	24.0	23.7	24.5	25.0
	6H	22.7	23.3	23.2	23.8	24.4	24.0	24.6	24.5	25.1	25.7
	8H	22.9	23.5	23.5	24.0	24.6	24.3	24.9	24.9	25.4	26.0

Maximum UGR = 26.3

POLAR GRAPH



Maximum Candela = 3505.262 Located At Horizontal Angle = 0, Vertical Angle = 5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)