

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS100LED4HTVHOWT30120-277V\_S.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 15:58:37 2021

[TEST] 1

[MANUFAC] BEGHELLI

[LUMCAT] LINEAR - INDOOR / OUTDOOR LUMINAIRE

[LUMINAIRE] BS100LED4HTVHOWT30120-277V\_S

[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	9714
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	139
Total Luminaire Watts	70
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.36
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	12708	9462	8803
55	11814	8007	7316
65	10422	6202	5544
75	8718	4207	3652
85	7147	2196	1825

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CANDELA TABULATION

	<u>0</u>
0.0	3385.82
2.5	3359.27
5.0	3289.79
7.5	3296.86
10.0	3238.55
12.5	3223.61
15.0	3165.92
17.5	3093.70
20.0	3029.09
22.5	2990.31
25.0	2934.03
27.5	2845.87
30.0	2792.46
32.5	2703.37
35.0	2611.67
37.5	2517.26
40.0	2425.47
42.5	2301.91
45.0	2199.09
47.5	2087.26
50.0	1961.01
52.5	1832.36
55.0	1708.61
57.5	1574.81
60.0	1437.57
62.5	1306.61
65.0	1165.30
67.5	1029.87
70.0	904.24
72.5	780.75
75.0	659.11
77.5	539.16
80.0	435.23
82.5	343.87
85.0	265.10
87.5	198.88
90.0	150.01
92.5	114.09
95.0	84.56
97.5	65.41
100.0	48.65
102.5	40.12
105.0	30.89
107.5	24.81
110.0	20.15
112.5	16.30
115.0	12.64
117.5	10.19
120.0	7.68
122.5	5.60
125.0	3.75
127.5	2.45
130.0	1.58
132.5	0.87

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<b>135.0</b>	0.35
<b>137.5</b>	0.22
<b>140.0</b>	0.05
<b>142.5</b>	0.03
<b>145.0</b>	0.00
<b>147.5</b>	0.00
<b>150.0</b>	0.00
<b>152.5</b>	0.00
<b>155.0</b>	0.00
<b>157.5</b>	0.00
<b>160.0</b>	0.00
<b>162.5</b>	0.00
<b>165.0</b>	0.00
<b>167.5</b>	0.00
<b>170.0</b>	0.00
<b>172.5</b>	0.00
<b>175.0</b>	0.00
<b>177.5</b>	0.00
<b>180.0</b>	0.00

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : BS100LED4HTVHOWT30120-277V\_S.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1205.15	N.A.	12.40
0-30	2553.34	N.A.	26.30
0-40	4188.62	N.A.	43.10
0-60	7408.16	N.A.	76.30
0-80	9262.99	N.A.	95.40
0-90	9562.78	N.A.	98.40
10-90	9248.45	N.A.	95.20
20-40	2983.47	N.A.	30.70
20-50	4678.92	N.A.	48.20
40-70	4375.67	N.A.	45.00
60-80	1854.83	N.A.	19.10
70-80	698.70	N.A.	7.20
80-90	299.79	N.A.	3.10
90-110	133.80	N.A.	1.40
90-120	147.04	N.A.	1.50
90-130	150.78	N.A.	1.60
90-150	151.24	N.A.	1.60
90-180	151.24	N.A.	1.60
110-180	17.44	N.A.	0.20
0-180	9714.02	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	314.33
10-20	890.82
20-30	1348.19
30-40	1635.28
40-50	1695.44
50-60	1524.1
60-70	1156.13
70-80	698.70
80-90	299.79
90-100	99.25
100-110	34.55
110-120	13.24
120-130	3.74
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	84	81
2	98	89	82	76	95	87	81	75	84	78	73	80	75	72	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	39	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

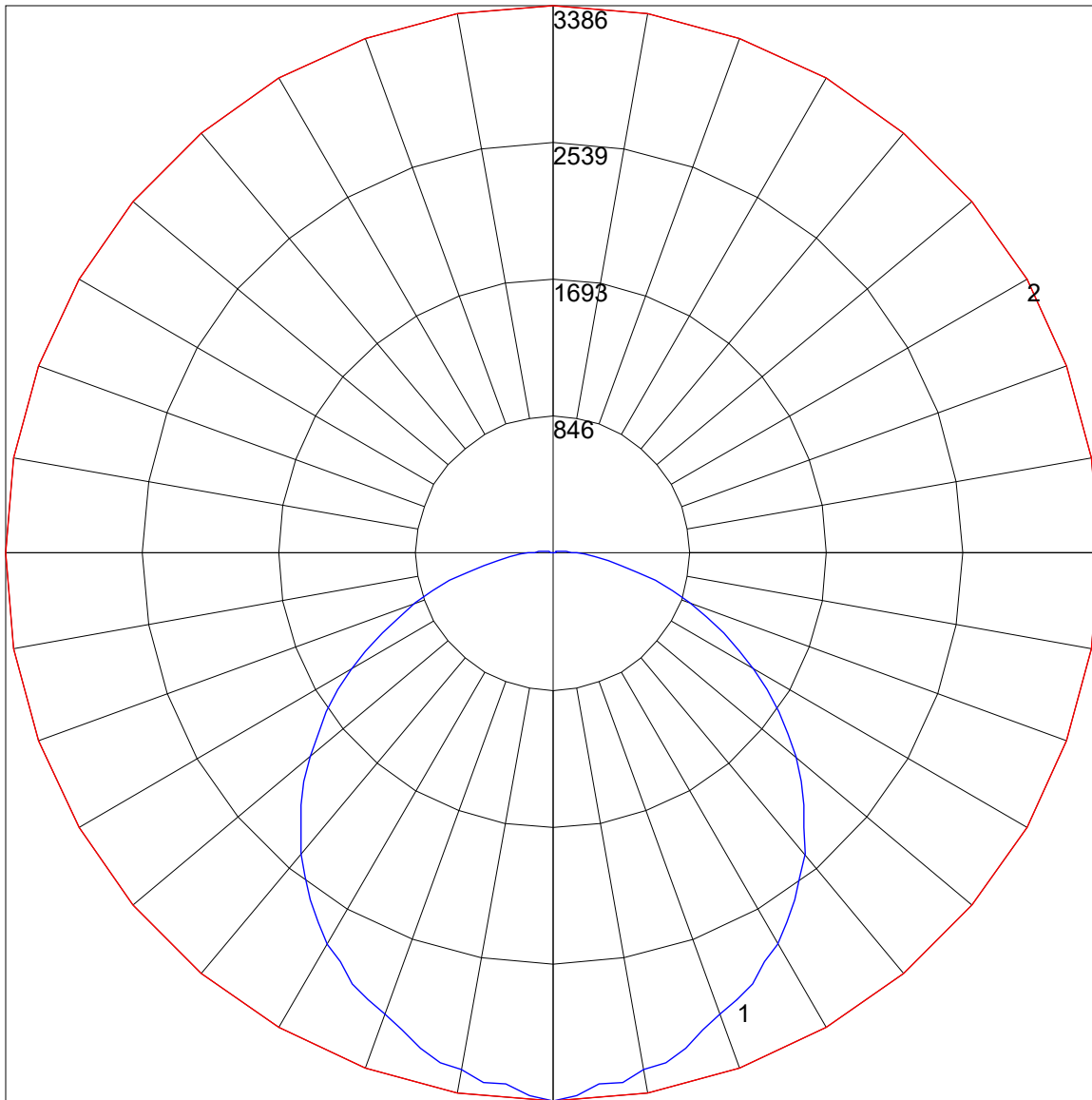
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**UGR TABLE - CORRECTED**

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	18.7	20.3	19.1	20.7	21.0	19.7	21.3	20.1	21.7	22.1
	3H	20.2	21.6	20.6	22.0	22.4	21.5	22.9	21.9	23.3	23.7
	4H	20.7	22.0	21.1	22.4	22.9	22.2	23.5	22.6	23.9	24.3
	6H	21.0	22.3	21.5	22.7	23.1	22.7	23.9	23.1	24.3	24.8
	8H	21.1	22.3	21.6	22.8	23.2	22.9	24.1	23.3	24.5	25.0
	12H	21.2	22.4	21.7	22.8	23.3	23.0	24.2	23.5	24.6	25.1
4H	2H	19.3	20.7	19.8	21.1	21.5	20.2	21.5	20.6	21.9	22.3
	3H	21.0	22.1	21.4	22.6	23.0	22.1	23.2	22.5	23.7	24.1
	4H	21.6	22.6	22.0	23.1	23.6	22.8	23.9	23.3	24.3	24.8
	6H	22.0	22.9	22.5	23.4	23.9	23.5	24.4	24.0	24.9	25.4
	8H	22.2	23.0	22.7	23.5	24.0	23.7	24.6	24.2	25.1	25.6
	12H	22.3	23.1	22.8	23.6	24.1	24.0	24.7	24.5	25.2	25.8
8H	4H	21.9	22.7	22.4	23.2	23.7	23.0	23.9	23.5	24.4	24.9
	6H	22.4	23.1	22.9	23.7	24.2	23.7	24.5	24.3	25.0	25.5
	8H	22.6	23.3	23.2	23.8	24.3	24.0	24.7	24.6	25.2	25.8
	12H	22.8	23.4	23.3	23.9	24.5	24.4	24.9	24.9	25.5	26.1
12H	4H	21.9	22.7	22.4	23.2	23.7	23.0	23.8	23.5	24.3	24.8
	6H	22.5	23.1	23.0	23.6	24.2	23.8	24.4	24.3	24.9	25.5
	8H	22.7	23.3	23.3	23.8	24.4	24.1	24.7	24.7	25.2	25.8

Maximum UGR = 26.1

POLAR GRAPH



Maximum Candela = 3385.82 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.)