

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS400LEDHTLOWT35120-277V\_S.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TESTLAB] Photopia 2024.2.0 see: [www.ltioptics.com/ies](http://www.ltioptics.com/ies)

[ISSUEDATE]

[TESTDATE] Tue Aug 26 11:27:18 2025

[TEST] 1

[MANUFAC]

[LUMCAT]

[LUMINAIRE] BS400LEDHTLOWT35120-277V\_S

[LAMP] LED 6.09W 12" Fortimo 24 LED linear module (130mA)

[LAMPCAT] LED Strip 1ft 1100lm 840 NA LV4

[OTHER]

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4016
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	134
Total Luminaire Watts	29.996
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.72
Spacing Criterion (90-270)	1.72
Spacing Criterion (Diagonal)	1.88
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	1.45 ft
Luminous Width (90-270)	1.45 ft
Luminous Height	0.27 ft

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4196	3939	4196
55	4778	4396	4778
65	5426	4852	5426
75	5904	5047	5904
85	6533	5096	6533

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CANDELA TABULATION

	<u>0</u>
0	601.98
5	590.79
10	600.35
15	617.01
20	635.99
25	650.93
30	661.67
35	674.68
40	684.30
45	691.68
50	687.78
55	681.97
60	663.89
65	630.78
70	578.07
75	509.18
80	430.81
85	350.26
90	272.63
95	203.86
100	144.75
105	96.73
110	60.22
115	34.30
120	17.53
125	7.70
130	2.95
135	1.37
140	1.16
145	0.93
150	0.61
155	0.43
160	0.26
165	0.18
170	0.05
175	0.06
180	0.00

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	232.35	N.A.	5.80
0-30	533.43	N.A.	13.30
0-40	956.96	N.A.	23.80
0-60	2099.39	N.A.	52.30
0-80	3255.92	N.A.	81.10
0-90	3638.71	N.A.	90.60
10-90	3581.84	N.A.	89.20
20-40	724.61	N.A.	18.00
20-50	1258.12	N.A.	31.30
40-70	1763.26	N.A.	43.90
60-80	1156.53	N.A.	28.80
70-80	535.70	N.A.	13.30
80-90	382.79	N.A.	9.50
90-110	330.83	N.A.	8.20
90-120	367.36	N.A.	9.10
90-130	375.51	N.A.	9.30
90-150	377.43	N.A.	9.40
90-180	377.69	N.A.	9.40
110-180	46.86	N.A.	1.20
0-180	4016.39	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	56.87
10-20	175.48
20-30	301.08
30-40	423.52
40-50	533.51
50-60	608.92
60-70	620.83
70-80	535.70
80-90	382.79
90-100	225.19
100-110	105.64
110-120	36.53
120-130	8.15
130-140	1.34
140-150	0.58
150-160	0.20
160-170	0.05
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	117	117	117	117	113	113	113	113	106	106	106	99	99	99	93	93	93	91
1	102	95	89	83	98	92	86	81	85	81	77	80	76	73	75	72	69	66
2	90	80	71	63	86	77	69	62	71	65	59	67	61	56	62	57	53	50
3	81	68	58	50	77	66	56	49	61	53	47	57	50	45	53	47	43	40
4	73	59	49	41	70	57	47	40	53	45	38	49	42	37	46	40	35	32
5	67	52	41	34	64	50	40	33	47	38	32	44	36	31	41	34	29	27
6	61	46	36	29	58	44	35	28	42	33	27	39	32	26	36	30	25	22
7	56	41	31	25	54	40	31	24	37	29	23	35	28	22	33	26	22	19
8	52	37	28	21	50	36	27	21	34	26	20	32	25	20	30	24	19	17
9	48	34	25	19	46	33	24	19	31	23	18	29	22	17	27	21	17	15
10	45	31	23	17	43	30	22	17	28	21	16	27	20	16	25	19	15	13

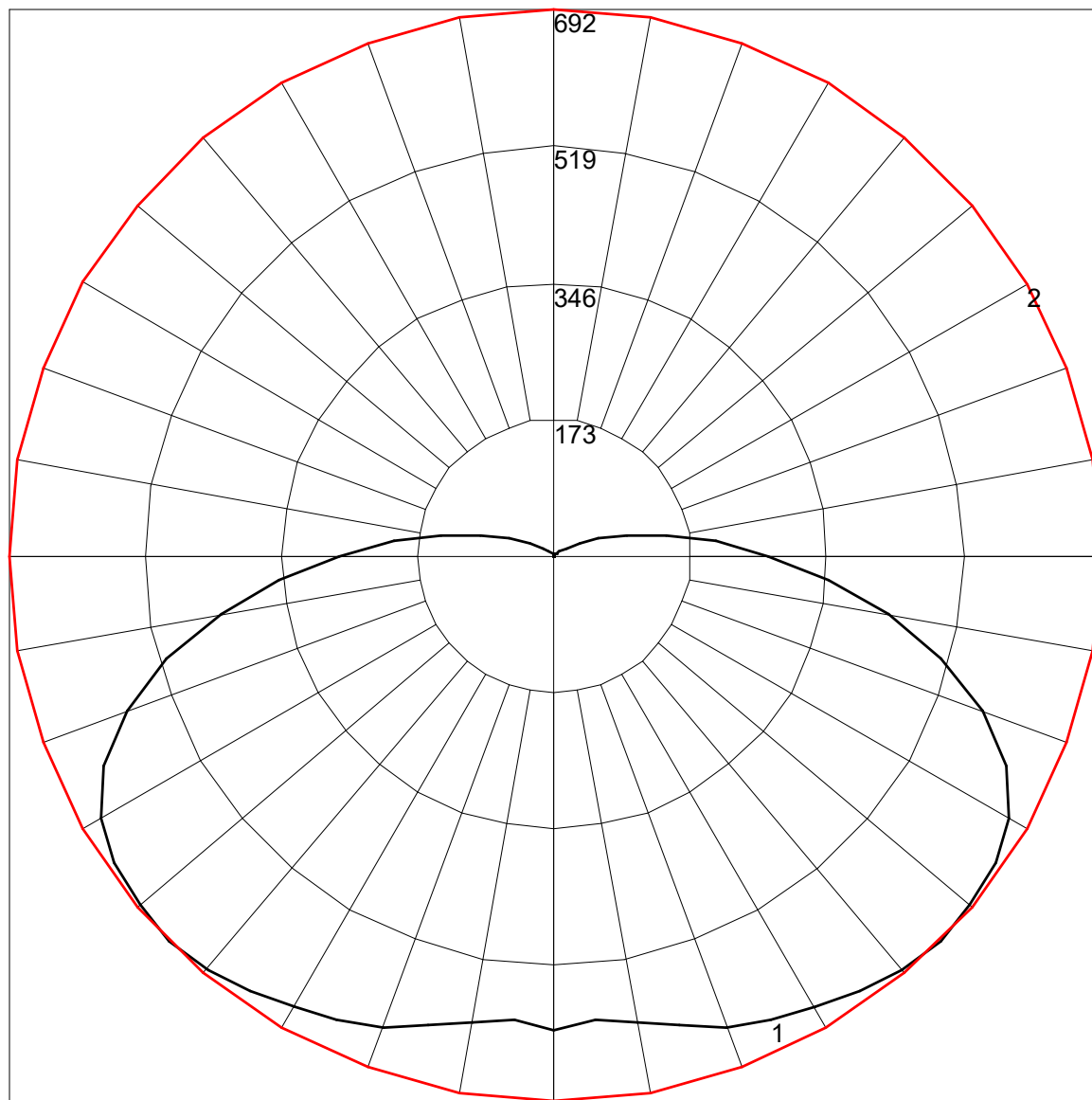
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**UGR TABLE - CORRECTED**

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	17.0	18.6	17.5	19.1	19.7	17.0	18.6	17.5	19.1	19.7
	3H	19.7	21.3	20.2	21.8	22.3	19.7	21.3	20.2	21.8	22.3
	4H	21.0	22.4	21.5	23.0	23.5	21.0	22.4	21.5	23.0	23.5
	6H	22.1	23.5	22.7	24.0	24.6	22.1	23.5	22.7	24.0	24.6
	8H	22.7	24.0	23.2	24.5	25.1	22.7	24.0	23.2	24.5	25.1
	12H	23.2	24.4	23.7	25.0	25.6	23.2	24.4	23.7	25.0	25.6
4H	2H	17.8	19.3	18.4	19.8	20.4	17.8	19.3	18.4	19.8	20.4
	3H	20.8	22.1	21.3	22.6	23.2	20.8	22.1	21.3	22.6	23.2
	4H	22.2	23.4	22.7	23.9	24.6	22.2	23.4	22.7	23.9	24.6
	6H	23.5	24.5	24.0	25.1	25.8	23.5	24.5	24.0	25.1	25.8
	8H	24.1	25.1	24.7	25.7	26.3	24.1	25.1	24.7	25.7	26.3
	12H	24.7	25.6	25.3	26.2	26.9	24.7	25.6	25.3	26.2	26.9
8H	4H	22.7	23.7	23.3	24.3	24.9	22.7	23.7	23.3	24.3	24.9
	6H	24.2	25.1	24.8	25.7	26.3	24.2	25.1	24.8	25.7	26.3
	8H	24.9	25.7	25.6	26.3	27.0	24.9	25.7	25.6	26.3	27.0
	12H	25.7	26.4	26.3	27.0	27.7	25.7	26.4	26.3	27.0	27.7
12H	4H	22.8	23.7	23.4	24.3	25.0	22.8	23.7	23.4	24.3	25.0
	6H	24.4	25.2	25.0	25.8	26.5	24.4	25.2	25.0	25.8	26.5
	8H	25.2	25.9	25.8	26.5	27.2	25.2	25.9	25.8	26.5	27.2

Maximum UGR = 27.7

POLAR GRAPH



Maximum Candela = 691.68 Located At Horizontal Angle = 0, Vertical Angle = 45

# 1 - Vertical Plane Through Horizontal Angles (0 - 180)

# 2 - Horizontal Cone Through Vertical Angle (45) (Through Max. Cd.)