

IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS400LEDHTLOWT40120-277V_S.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

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

[ISSUE DATE]

[TEST DATE] Tue Aug 26 11:30:18 2025

[TEST] 1

[MANUFAC]

[LUMCAT]

[LUMINAIRE] BS400LEDHTLOWT40120-277V_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	4052
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	135
Total Luminaire Watts	29.996
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.78
Spacing Criterion (90-270)	1.78
Spacing Criterion (Diagonal)	1.92
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	4207	3950	4207
55	4833	4446	4833
65	5466	4887	5466
75	5962	5096	5962
85	6590	5141	6590

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CANDELA TABULATION

	<u>0</u>
0	578.41
5	582.50
10	605.17
15	622.12
20	639.83
25	653.51
30	669.84
35	680.44
40	690.10
45	693.52
50	696.22
55	689.74
60	670.30
65	635.34
70	583.73
75	514.12
80	435.34
85	353.33
90	277.89
95	204.74
100	146.03
105	97.26
110	60.57
115	34.62
120	17.63
125	7.73
130	3.09
135	1.43
140	1.11
145	0.87
150	0.60
155	0.39
160	0.30
165	0.15
170	0.03
175	0.01
180	0.00

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	233.17	N.A.	5.80
0-30	536.29	N.A.	13.20
0-40	963.79	N.A.	23.80
0-60	2116.52	N.A.	52.20
0-80	3283.61	N.A.	81.00
0-90	3670.74	N.A.	90.60
10-90	3614.38	N.A.	89.20
20-40	730.62	N.A.	18.00
20-50	1267.63	N.A.	31.30
40-70	1778.81	N.A.	43.90
60-80	1167.09	N.A.	28.80
70-80	541.01	N.A.	13.40
80-90	387.13	N.A.	9.60
90-110	333.81	N.A.	8.20
90-120	370.62	N.A.	9.10
90-130	378.83	N.A.	9.30
90-150	380.76	N.A.	9.40
90-180	381.01	N.A.	9.40
110-180	47.20	N.A.	1.20
0-180	4051.75	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	56.37
10-20	176.80
20-30	303.12
30-40	427.50
40-50	537.01
50-60	615.72
60-70	626.08
70-80	541.01
80-90	387.13
90-100	227.46
100-110	106.35
110-120	36.80
120-130	8.21
130-140	1.38
140-150	0.55
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	65	56	49	61	53	47	57	50	45	53	47	43	40
4	73	59	48	41	70	57	47	40	53	45	38	49	42	36	46	40	35	32
5	67	52	41	34	64	50	40	33	47	38	32	44	36	30	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	22	17	43	30	22	17	28	21	16	27	20	15	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

X=2H	Y=2H	17.1	18.7	17.6	19.2	19.8	UGR Viewed Endwise			
	3H	19.9	21.4	20.4	21.9	22.4	17.1	18.7	17.6	19.2
	4H	21.1	22.6	21.6	23.1	23.6	19.9	21.4	20.4	21.9
	6H	22.2	23.6	22.8	24.1	24.7	21.1	22.6	21.6	23.1
	8H	22.8	24.1	23.3	24.6	25.2	22.2	23.6	22.8	24.1
	12H	23.3	24.5	23.8	25.1	25.7	22.8	24.1	23.3	24.6

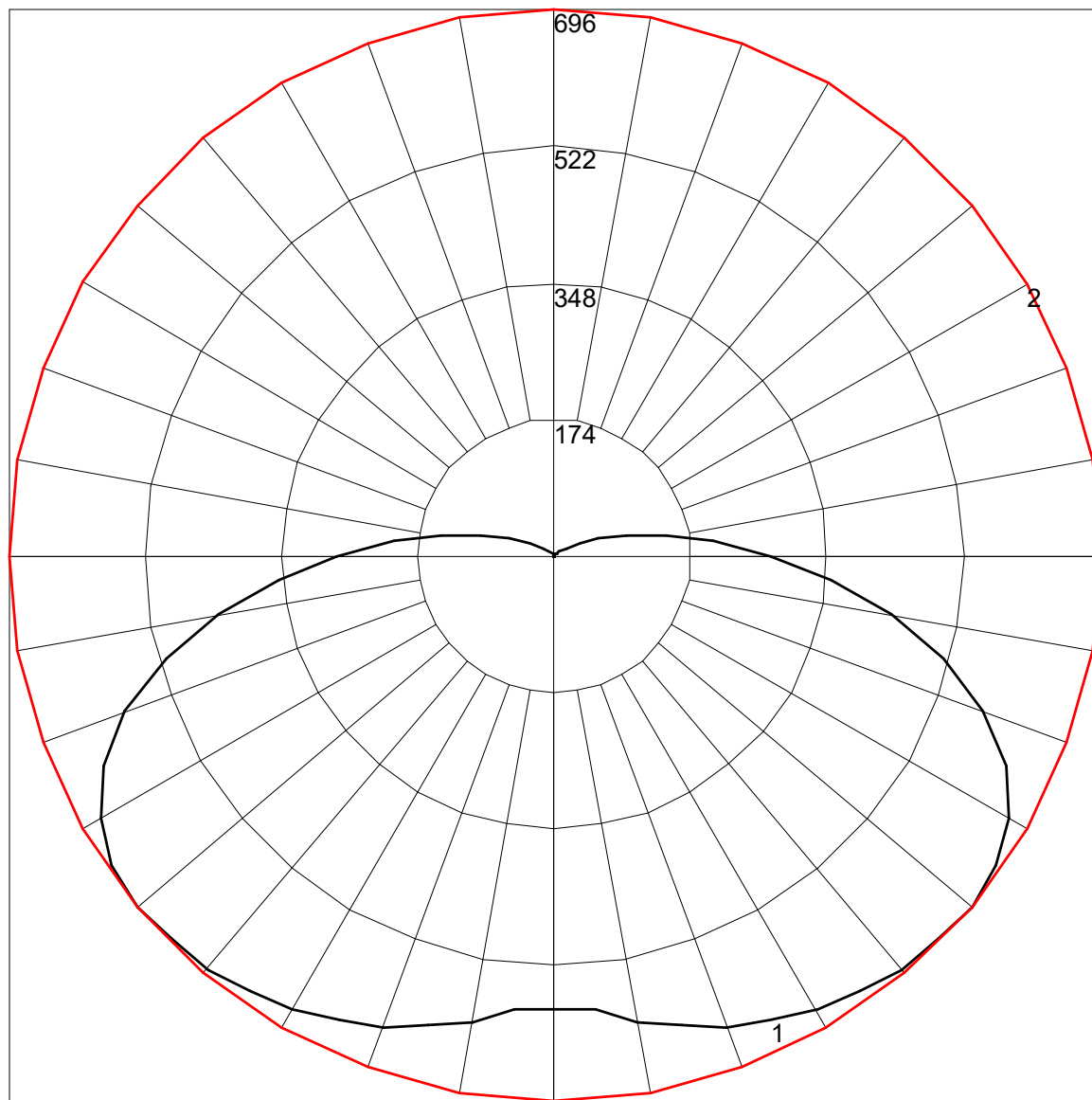
4H	2H	17.9	19.4	18.5	19.9	20.5	23.3	24.5	23.8	25.1
	3H	20.9	22.2	21.4	22.7	23.3	23.3	24.5	23.8	25.1
	4H	22.3	23.5	22.8	24.0	24.7	17.9	19.4	18.5	19.9
	6H	23.6	24.6	24.2	25.2	25.9	20.9	22.2	21.4	22.7
	8H	24.2	25.2	24.8	25.8	26.4	22.3	23.5	22.8	24.0
	12H	24.8	25.7	25.4	26.3	27.0	23.6	24.6	24.2	25.2

8H	4H	22.8	23.8	23.4	24.4	25.0	24.2	25.2	24.8	25.8
	6H	24.3	25.2	24.9	25.8	26.4	24.8	25.7	25.4	26.3
	8H	25.0	25.8	25.6	26.4	27.1	17.9	19.4	18.5	19.9
	12H	25.8	26.5	26.4	27.1	27.8	20.9	22.2	21.4	22.7

12H	4H	22.9	23.8	23.5	24.4	25.1	22.3	23.5	22.8	24.0
	6H	24.5	25.3	25.1	25.9	26.6	23.6	24.6	24.2	25.2
	8H	25.3	26.0	25.9	26.6	27.3	24.2	25.2	24.8	25.8

Maximum UGR = 27.8

POLAR GRAPH



Maximum Candela = 696.22 Located At Horizontal Angle = 0, Vertical Angle = 50
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Horizontal Cone Through Vertical Angle (50) (Through Max. Cd.)