

IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS400LEDHTHOWT40120-277V.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

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

[ISSUE DATE]

[TEST DATE] Mon Aug 25 16:54:33 2025

[TEST] 1

[MANUFACTURER]

[LUMINAIRE]

[LUMINAIRE] BS400LEDHTHOWT40120-277V

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

[LAMP CATEGORY] LED Strip 1ft 1100lm 840 NA LV4

[OTHER]

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	8107
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	135
Total Luminaire Watts	59.876
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.76
Spacing Criterion (90-270)	1.76
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	8414	7900	8414
55	9647	8874	9647
65	10936	9779	10936
75	11915	10184	11915
85	13215	10309	13215

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CANDELA TABULATION

	<u>0</u>
0	1172.45
5	1180.74
10	1202.80
15	1241.29
20	1278.64
25	1311.95
30	1346.57
35	1364.70
40	1381.67
45	1387.17
50	1391.56
55	1376.83
60	1341.13
65	1271.26
70	1169.52
75	1027.51
80	870.20
85	708.52
90	551.76
95	411.44
100	292.01
105	195.11
110	121.32
115	68.78
120	34.71
125	15.39
130	6.15
135	2.84
140	2.42
145	1.71
150	1.56
155	0.67
160	0.48
165	0.21
170	0.11
175	0.00
180	0.00

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	466.06	N.A.	5.70
0-30	1074.2	N.A.	13.30
0-40	1931.67	N.A.	23.80
0-60	4236.01	N.A.	52.30
0-80	6571.15	N.A.	81.10
0-90	7345.2	N.A.	90.60
10-90	7231.8	N.A.	89.20
20-40	1465.61	N.A.	18.10
20-50	2539.76	N.A.	31.30
40-70	3557.44	N.A.	43.90
60-80	2335.14	N.A.	28.80
70-80	1082.04	N.A.	13.30
80-90	774.05	N.A.	9.50
90-110	667.93	N.A.	8.20
90-120	741.22	N.A.	9.10
90-130	757.48	N.A.	9.30
90-150	761.44	N.A.	9.40
90-180	761.93	N.A.	9.40
110-180	94.00	N.A.	1.20
0-180	8107.13	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	113.40
10-20	352.66
20-30	608.14
30-40	857.46
40-50	1074.16
50-60	1230.19
60-70	1253.1
70-80	1082.04
80-90	774.05
90-100	454.88
100-110	213.05
110-120	73.29
120-130	16.26
130-140	2.79
140-150	1.17
150-160	0.40
160-170	0.08
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	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	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	22	17	43	30	22	17	28	21	16	27	20	15	25	19	15	13

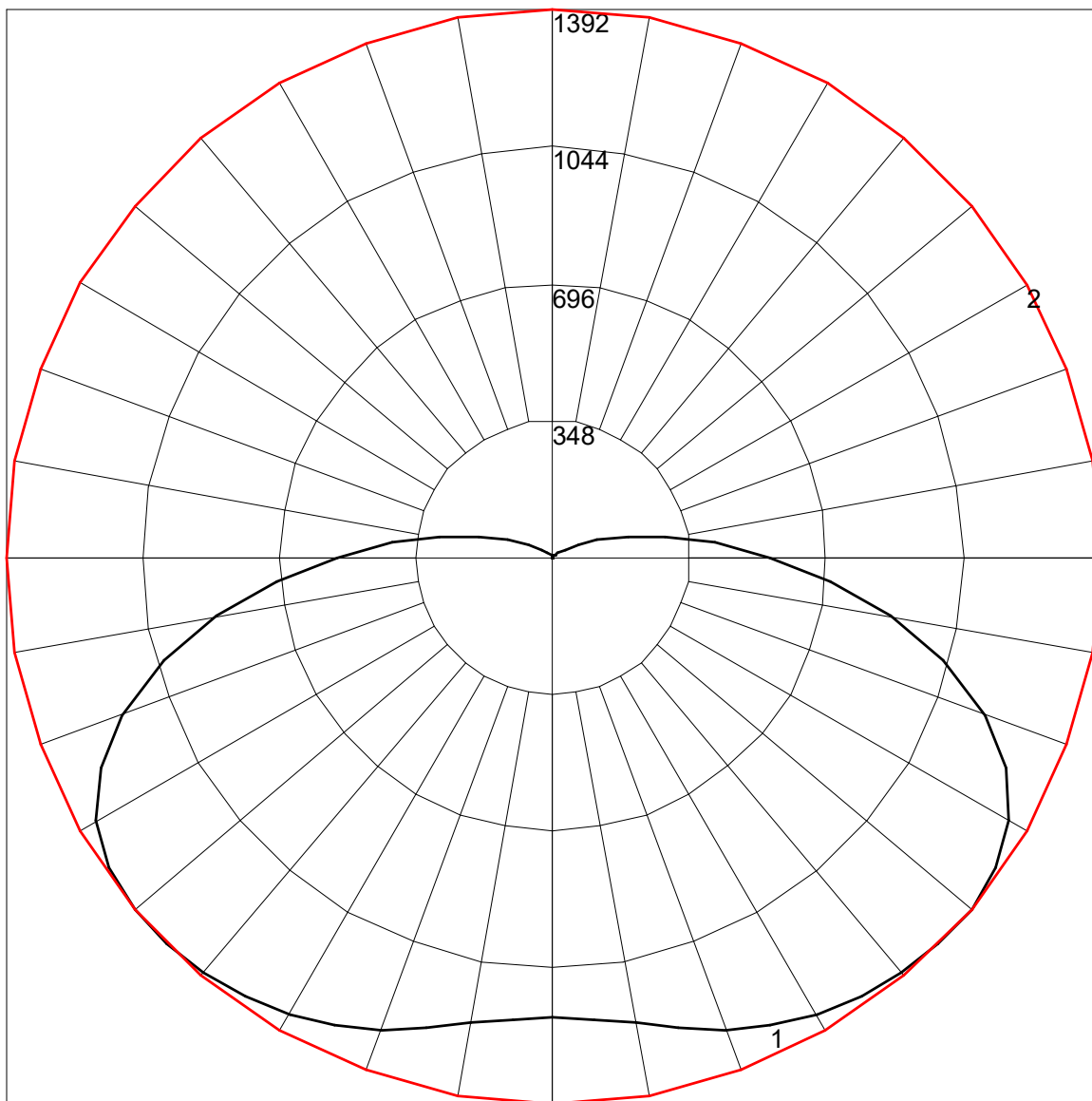
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UGR TABLE - CORRECTED

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					UGR Viewed Endwise				
X=2H	Y=2H	19.5	21.1	20.0	21.6	22.2	19.5	21.1	20.0	21.6	22.2
	3H	22.3	23.8	22.8	24.3	24.8	22.3	23.8	22.8	24.3	24.8
	4H	23.5	25.0	24.0	25.5	26.0	23.5	25.0	24.0	25.5	26.0
	6H	24.6	26.0	25.2	26.5	27.1	24.6	26.0	25.2	26.5	27.1
	8H	25.2	26.5	25.7	27.0	27.6	25.2	26.5	25.7	27.0	27.6
	12H	25.7	26.9	26.2	27.5	28.1	25.7	26.9	26.2	27.5	28.1
4H	2H	20.3	21.8	20.9	22.3	22.9	20.3	21.8	20.9	22.3	22.9
	3H	23.3	24.6	23.8	25.1	25.7	23.3	24.6	23.8	25.1	25.7
	4H	24.7	25.9	25.2	26.4	27.1	24.7	25.9	25.2	26.4	27.1
	6H	26.0	27.0	26.5	27.6	28.3	26.0	27.0	26.5	27.6	28.3
	8H	26.6	27.6	27.2	28.2	28.8	26.6	27.6	27.2	28.2	28.8
	12H	27.2	28.1	27.8	28.7	29.4	27.2	28.1	27.8	28.7	29.4
8H	4H	25.2	26.2	25.8	26.8	27.4	25.2	26.2	25.8	26.8	27.4
	6H	26.7	27.6	27.3	28.2	28.8	26.7	27.6	27.3	28.2	28.8
	8H	27.4	28.2	28.0	28.8	29.5	27.4	28.2	28.0	28.8	29.5
	12H	28.2	28.9	28.8	29.5	30.2	28.2	28.9	28.8	29.5	30.2
12H	4H	25.3	26.2	25.9	26.8	27.5	25.3	26.2	25.9	26.8	27.5
	6H	26.9	27.7	27.5	28.3	29.0	26.9	27.7	27.5	28.3	29.0
	8H	27.7	28.4	28.3	29.0	29.7	27.7	28.4	28.3	29.0	29.7

Maximum UGR = 30.2

POLAR GRAPH



Maximum Candela = 1391.56 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.)