

IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS400LEDHTMOWT40120-277V_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 10:53:08 2025

[TEST] 1

[MANUFAC]

[LUMCAT]

[LUMINAIRE] BS400LEDHTMOWT40120-277V_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	6081
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	135
Total Luminaire Watts	45.036
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.80
Spacing Criterion (90-270)	1.80
Spacing Criterion (Diagonal)	1.94
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	6313	5927	6313
55	7235	6656	7235
65	8199	7332	8199
75	8949	7649	8949
85	9894	7718	9894

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CANDELA TABULATION

	<u>0</u>
0	860.44
5	892.80
10	910.49
15	926.55
20	963.59
25	983.58
30	1006.97
35	1027.17
40	1037.83
45	1040.76
50	1045.44
55	1032.64
60	1006.87
65	953.10
70	875.84
75	771.75
80	649.45
85	530.46
90	412.61
95	309.25
100	218.37
105	146.76
110	91.47
115	51.51
120	25.95
125	11.80
130	4.51
135	2.17
140	1.79
145	1.44
150	1.01
155	0.64
160	0.47
165	0.17
170	0.05
175	0.00
180	0.00

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	350.21	N.A.	5.80
0-30	806.34	N.A.	13.30
0-40	1450.41	N.A.	23.90
0-60	3180.1	N.A.	52.30
0-80	4930.6	N.A.	81.10
0-90	5509.43	N.A.	90.60
10-90	5423.96	N.A.	89.20
20-40	1100.2	N.A.	18.10
20-50	1906.61	N.A.	31.40
40-70	2669.26	N.A.	43.90
60-80	1750.5	N.A.	28.80
70-80	810.93	N.A.	13.30
80-90	578.83	N.A.	9.50
90-110	500.99	N.A.	8.20
90-120	556.02	N.A.	9.10
90-130	568.29	N.A.	9.30
90-150	571.28	N.A.	9.40
90-180	571.67	N.A.	9.40
110-180	70.68	N.A.	1.20
0-180	6081.1	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	85.47
10-20	264.75
20-30	456.13
30-40	644.07
40-50	806.42
50-60	923.27
60-70	939.57
70-80	810.93
80-90	578.83
90-100	341.02
100-110	159.97
110-120	55.03
120-130	12.27
130-140	2.08
140-150	0.90
150-160	0.33
160-170	0.07
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

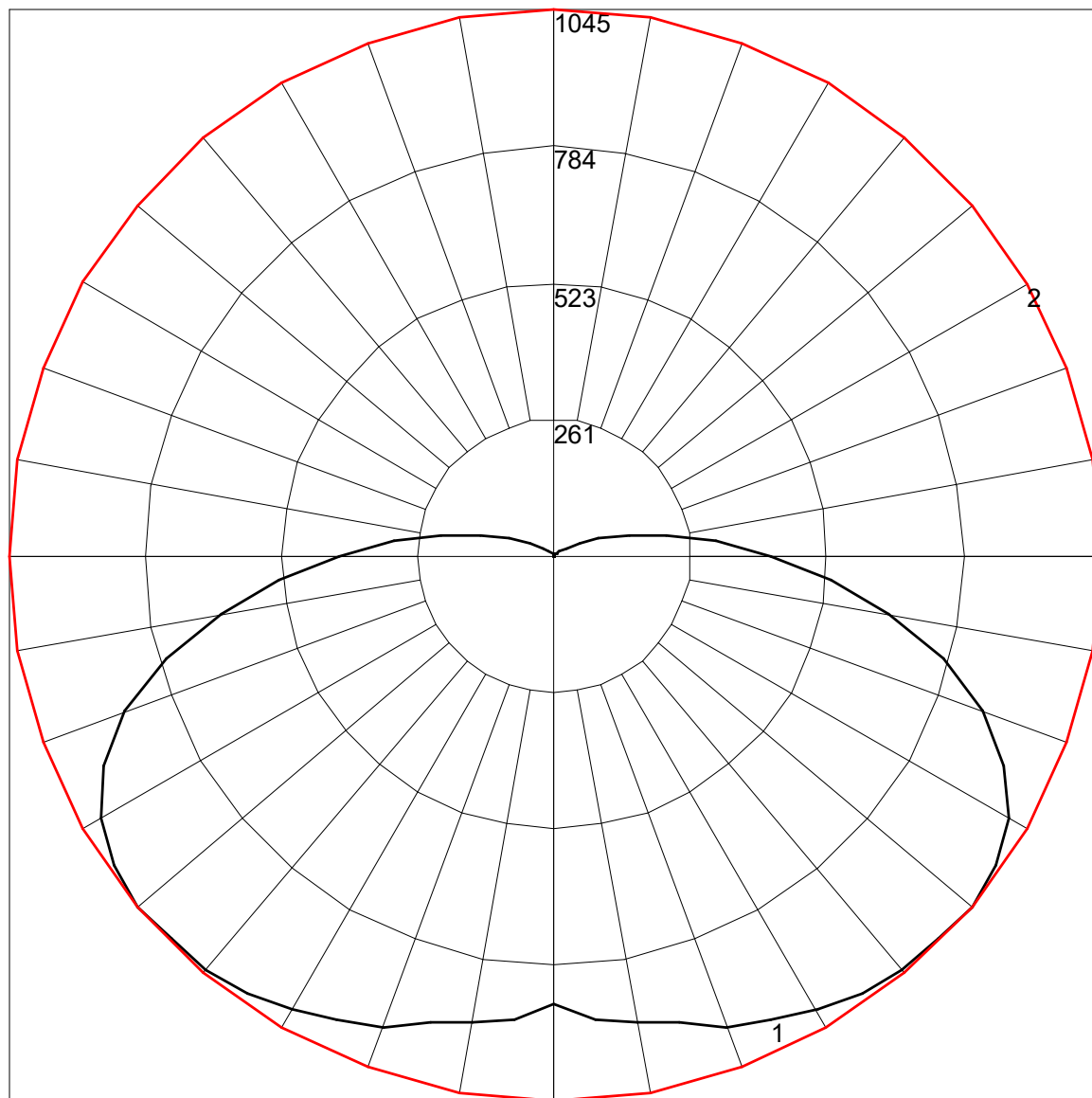
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UGR TABLE - CORRECTED

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	18.5	20.1	19.0	20.6	21.2	18.5	20.1	19.0	20.6	21.2
	3H	21.2	22.8	21.8	23.3	23.8	21.2	22.8	21.8	23.3	23.8
	4H	22.5	24.0	23.0	24.5	25.0	22.5	24.0	23.0	24.5	25.0
	6H	23.6	25.0	24.2	25.5	26.1	23.6	25.0	24.2	25.5	26.1
	8H	24.1	25.5	24.7	26.0	26.6	24.1	25.5	24.7	26.0	26.6
	12H	24.6	25.9	25.2	26.5	27.1	24.6	25.9	25.2	26.5	27.1
4H	2H	19.3	20.8	19.9	21.3	21.9	19.3	20.8	19.9	21.3	21.9
	3H	22.3	23.6	22.8	24.1	24.7	22.3	23.6	22.8	24.1	24.7
	4H	23.7	24.9	24.2	25.4	26.1	23.7	24.9	24.2	25.4	26.1
	6H	25.0	26.0	25.5	26.6	27.3	25.0	26.0	25.5	26.6	27.3
	8H	25.6	26.6	26.2	27.2	27.8	25.6	26.6	26.2	27.2	27.8
	12H	26.2	27.1	26.8	27.7	28.4	26.2	27.1	26.8	27.7	28.4
8H	4H	24.2	25.2	24.8	25.8	26.4	24.2	25.2	24.8	25.8	26.4
	6H	25.7	26.5	26.3	27.2	27.8	25.7	26.5	26.3	27.2	27.8
	8H	26.4	27.2	27.0	27.8	28.5	26.4	27.2	27.0	27.8	28.5
	12H	27.2	27.9	27.8	28.5	29.2	27.2	27.9	27.8	28.5	29.2
12H	4H	24.3	25.2	24.9	25.8	26.5	24.3	25.2	24.9	25.8	26.5
	6H	25.9	26.6	26.5	27.2	28.0	25.9	26.6	26.5	27.2	28.0
	8H	26.7	27.4	27.3	28.0	28.7	26.7	27.4	27.3	28.0	28.7

Maximum UGR = 29.2

POLAR GRAPH



Maximum Candela = 1045.44 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.)