

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS400LEDHTMOWT35120-277V\_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)

[ISSUE DATE]

[TEST DATE] Tue Aug 26 11:02:36 2025

[TEST] 1

[MANUFACT]

[LUMCAT]

[LUMINAIRE] BS400LEDHTMOWT35120-277V\_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	6024
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	134
Total Luminaire Watts	45.036
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	6260	5878	6260
55	7162	6588	7162
65	8145	7284	8145
75	8865	7578	8865
85	9812	7655	9812

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CANDELA TABULATION

	<u>0</u>
0	873.90
5	877.02
10	897.14
15	918.58
20	951.19
25	972.97
30	996.77
35	1013.37
40	1026.39
45	1032.03
50	1037.01
55	1022.17
60	997.59
65	946.83
70	868.26
75	764.55
80	644.40
85	526.08
90	407.58
95	307.07
100	217.35
105	145.70
110	90.29
115	51.57
120	26.31
125	11.28
130	4.48
135	2.32
140	1.72
145	1.41
150	0.91
155	0.63
160	0.33
165	0.11
170	0.09
175	0.00
180	0.00

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	346.20	N.A.	5.70
0-30	797.28	N.A.	13.20
0-40	1433.61	N.A.	23.80
0-60	3147.42	N.A.	52.20
0-80	4883.49	N.A.	81.10
0-90	5457.18	N.A.	90.60
10-90	5372.78	N.A.	89.20
20-40	1087.41	N.A.	18.00
20-50	1886.62	N.A.	31.30
40-70	2646.09	N.A.	43.90
60-80	1736.07	N.A.	28.80
70-80	803.79	N.A.	13.30
80-90	573.69	N.A.	9.50
90-110	497.00	N.A.	8.20
90-120	551.85	N.A.	9.20
90-130	563.97	N.A.	9.40
90-150	566.95	N.A.	9.40
90-180	567.30	N.A.	9.40
110-180	70.30	N.A.	1.20
0-180	6024.48	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	84.40
10-20	261.80
20-30	451.08
30-40	636.33
40-50	799.21
50-60	914.60
60-70	932.28
70-80	803.79
80-90	573.69
90-100	338.17
100-110	158.83
110-120	54.85
120-130	12.12
130-140	2.12
140-150	0.86
150-160	0.30
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	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	18.4	20.0	18.9	20.5	21.1	18.4	20.0	18.9	20.5	21.1
	3H	21.2	22.7	21.7	23.2	23.8	21.2	22.7	21.7	23.2	23.8
	4H	22.4	23.9	22.9	24.4	24.9	22.4	23.9	22.9	24.4	24.9
	6H	23.5	24.9	24.1	25.4	26.0	23.5	24.9	24.1	25.4	26.0
	8H	24.1	25.4	24.6	25.9	26.5	24.1	25.4	24.6	25.9	26.5
	12H	24.6	25.8	25.1	26.4	27.0	24.6	25.8	25.1	26.4	27.0

UGR Viewed Endwise

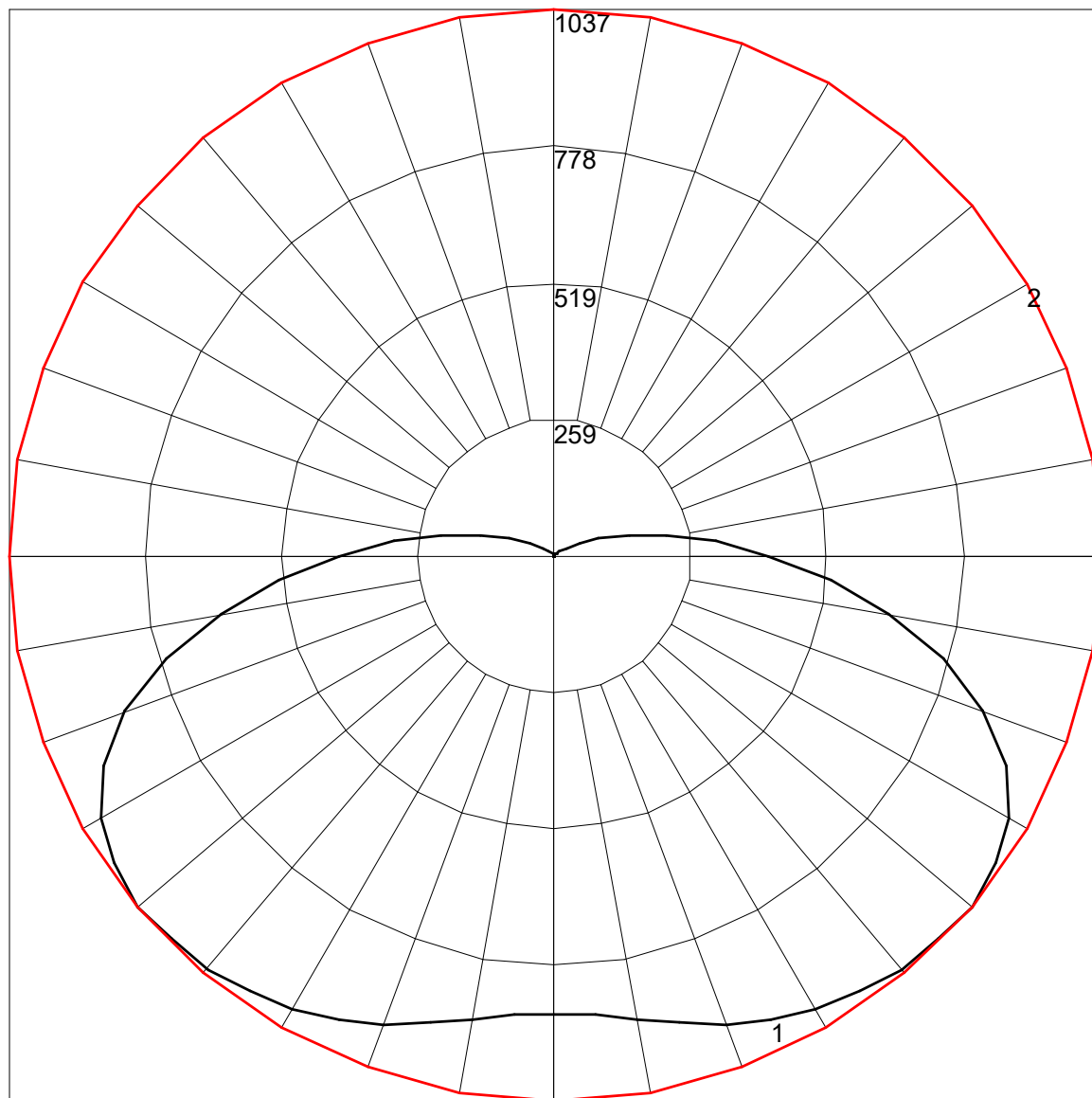
4H	2H	19.2	20.7	19.8	21.2	21.8	19.2	20.7	19.8	21.2	21.8
	3H	22.2	23.5	22.7	24.0	24.6	22.2	23.5	22.7	24.0	24.6
	4H	23.6	24.8	24.1	25.3	26.0	23.6	24.8	24.1	25.3	26.0
	6H	24.9	25.9	25.4	26.5	27.2	24.9	25.9	25.4	26.5	27.2
	8H	25.5	26.5	26.1	27.1	27.7	25.5	26.5	26.1	27.1	27.7
	12H	26.1	27.0	26.7	27.6	28.3	26.1	27.0	26.7	27.6	28.3

8H	4H	24.1	25.1	24.7	25.7	26.3	24.1	25.1	24.7	25.7	26.3
	6H	25.6	26.4	26.2	27.1	27.7	25.6	26.4	26.2	27.1	27.7
	8H	26.3	27.1	26.9	27.7	28.4	26.3	27.1	26.9	27.7	28.4
	12H	27.1	27.8	27.7	28.4	29.1	27.1	27.8	27.7	28.4	29.1

12H	4H	24.2	25.1	24.8	25.7	26.4	24.2	25.1	24.8	25.7	26.4
	6H	25.8	26.6	26.4	27.2	27.9	25.8	26.6	26.4	27.2	27.9
	8H	26.6	27.3	27.2	27.9	28.6	26.6	27.3	27.2	27.9	28.6

Maximum UGR = 29.1

POLAR GRAPH



Maximum Candela = 1037.01 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.)