

IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS400LEDHTHOWT40120-277V_EM_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 16:02:05 2025

[TEST] 1

[MANUFAC]

[LUMCAT]

[LUMINAIRE] BS400LEDHTHOWT40120-277V_EM_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	2177
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	128
Total Luminaire Watts	17.036
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.74
Spacing Criterion (90-270)	1.74
Spacing Criterion (Diagonal)	1.90
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	2270	2131	2270
55	2592	2384	2592
65	2929	2620	2929
75	3203	2738	3203
85	3542	2763	3542

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CANDELA TABULATION

	<u>0</u>
0	322.29
5	320.38
10	325.36
15	332.68
20	343.86
25	352.42
30	360.77
35	366.03
40	370.02
45	374.25
50	374.17
55	369.90
60	359.99
65	340.53
70	312.97
75	276.22
80	234.33
85	189.88
90	147.56
95	110.50
100	78.60
105	52.36
110	32.37
115	18.34
120	9.33
125	4.14
130	1.58
135	0.78
140	0.61
145	0.52
150	0.36
155	0.26
160	0.12
165	0.07
170	0.02
175	0.02
180	0.00

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	125.57	N.A.	5.80
0-30	288.86	N.A.	13.30
0-40	518.69	N.A.	23.80
0-60	1138.22	N.A.	52.30
0-80	1764.6	N.A.	81.10
0-90	1972.26	N.A.	90.60
10-90	1941.48	N.A.	89.20
20-40	393.11	N.A.	18.10
20-50	682.15	N.A.	31.30
40-70	955.30	N.A.	43.90
60-80	626.38	N.A.	28.80
70-80	290.61	N.A.	13.40
80-90	207.66	N.A.	9.50
90-110	179.23	N.A.	8.20
90-120	198.80	N.A.	9.10
90-130	203.15	N.A.	9.30
90-150	204.21	N.A.	9.40
90-180	204.35	N.A.	9.40
110-180	25.12	N.A.	1.20
0-180	2176.61	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	30.78
10-20	94.79
20-30	163.28
30-40	229.83
40-50	289.04
50-60	330.50
60-70	335.77
70-80	290.61
80-90	207.66
90-100	122.04
100-110	57.19
110-120	19.57
120-130	4.36
130-140	0.73
140-150	0.32
150-160	0.12
160-170	0.02
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	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

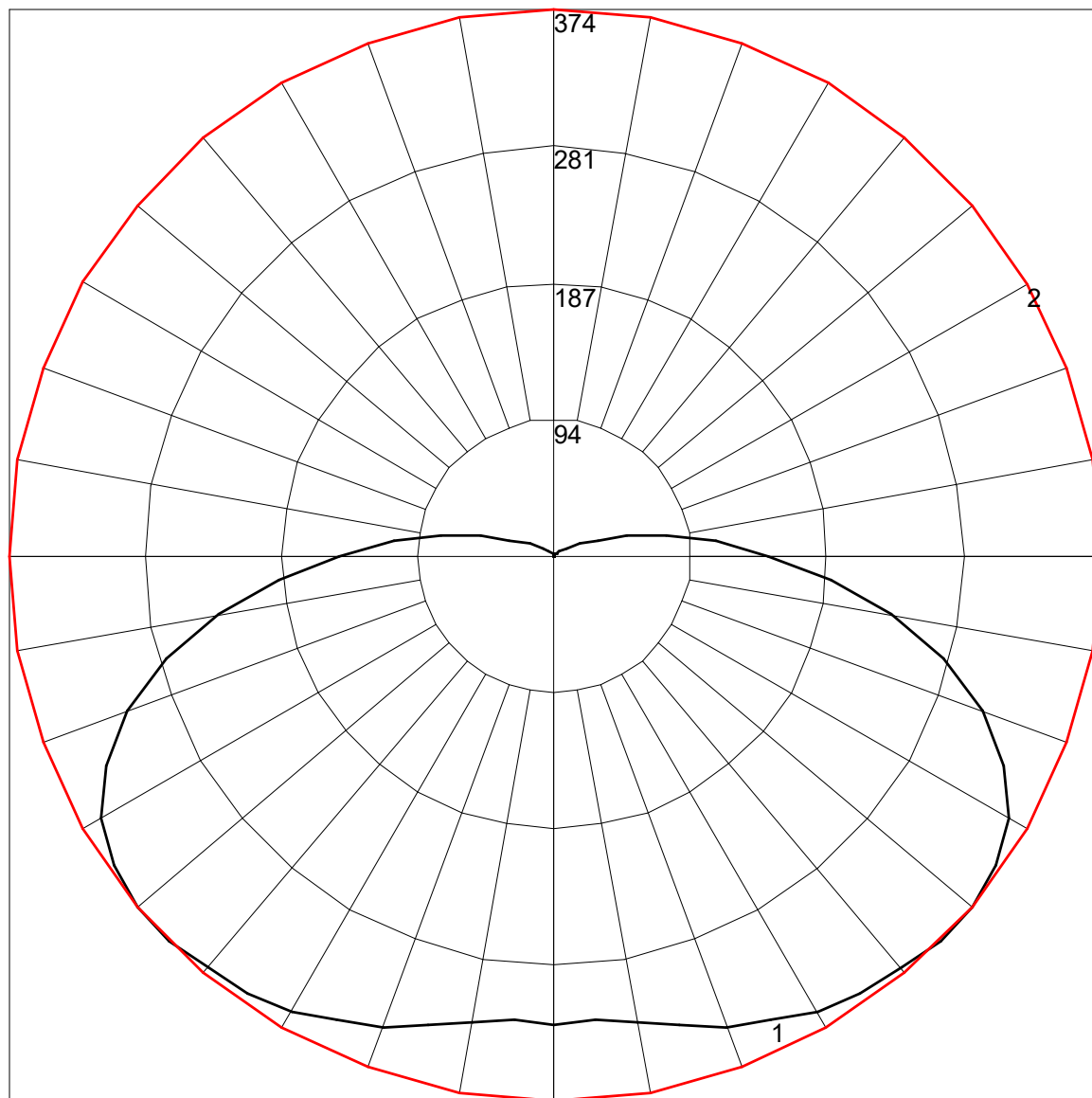
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UGR TABLE - CORRECTED

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	14.9	16.5	15.4	17.0	17.6	14.9	16.5	15.4	17.0	17.6
	3H	17.6	19.2	18.1	19.7	20.2	17.6	19.2	18.1	19.7	20.2
	4H	18.9	20.3	19.4	20.9	21.4	18.9	20.3	19.4	20.9	21.4
	6H	20.0	21.4	20.6	21.9	22.5	20.0	21.4	20.6	21.9	22.5
	8H	20.6	21.9	21.1	22.4	23.0	20.6	21.9	21.1	22.4	23.0
	12H	21.1	22.3	21.6	22.9	23.5	21.1	22.3	21.6	22.9	23.5
4H	2H	15.7	17.2	16.3	17.7	18.3	15.7	17.2	16.3	17.7	18.3
	3H	18.7	20.0	19.2	20.5	21.1	18.7	20.0	19.2	20.5	21.1
	4H	20.1	21.3	20.6	21.8	22.4	20.1	21.3	20.6	21.8	22.4
	6H	21.4	22.4	21.9	23.0	23.7	21.4	22.4	21.9	23.0	23.7
	8H	22.0	23.0	22.6	23.6	24.2	22.0	23.0	22.6	23.6	24.2
	12H	22.6	23.5	23.2	24.1	24.8	22.6	23.5	23.2	24.1	24.8
8H	4H	20.6	21.6	21.2	22.2	22.8	20.6	21.6	21.2	22.2	22.8
	6H	22.1	23.0	22.7	23.6	24.2	22.1	23.0	22.7	23.6	24.2
	8H	22.8	23.6	23.4	24.2	24.9	22.8	23.6	23.4	24.2	24.9
	12H	23.6	24.3	24.2	24.9	25.6	23.6	24.3	24.2	24.9	25.6
12H	4H	20.7	21.6	21.3	22.2	22.9	20.7	21.6	21.3	22.2	22.9
	6H	22.3	23.1	22.9	23.7	24.4	22.3	23.1	22.9	23.7	24.4
	8H	23.1	23.8	23.7	24.4	25.2	23.1	23.8	23.7	24.4	25.2

Maximum UGR = 25.6

POLAR GRAPH



Maximum Candela = 374.25 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.)