

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: METALUX

Report Number: P1527113

Luminaire Tested: 24CGTX-40HE-F125-L935

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1527113
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2507-496-1)
Test Lab: INNOVATION CENTER
Issue Date: 8/24/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 24CGTX-40HE-F125-L935
Description: CGTX with F125 Lens Option

Light Source:
Ballast/Driver: -

Summary

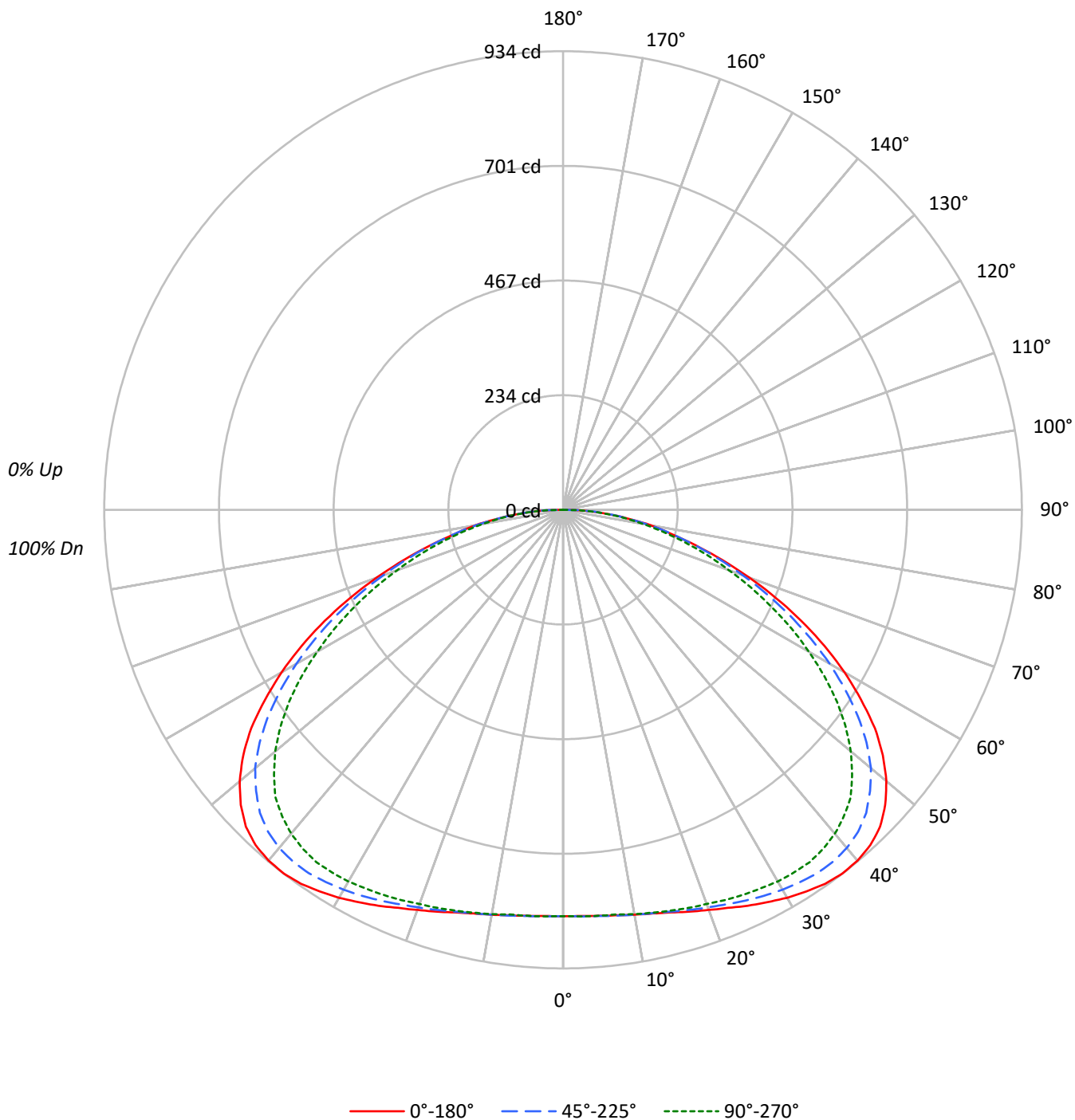
Lumens per Lamp: N/A
Luminaire Lumens: 3499.0 lumens
Efficiency: N/A
Efficacy: 117.0 lumens/watt
Spacing Criteria (0/90/45): 1.69 / 1.6 / 1.72
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 29.9
Input Voltage (V):
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor:
Total Harmonic Distortion (THDi):
Frequency (hertz): 60
Stabilization Time: HR
Operation Time: HR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	108	102	98	94	105	100	96	92	96	92	89	92	89	86	88	86	84
2	97	88	81	74	94	86	79	74	83	77	72	79	74	70	76	72	69
3	88	76	68	61	85	75	67	60	72	65	59	69	63	58	66	61	57
4	80	67	57	50	77	66	57	50	63	55	49	61	54	48	58	53	48
5	73	59	50	43	71	58	49	42	56	48	42	54	47	41	52	46	41
6	67	53	43	36	65	52	43	36	50	42	36	48	41	36	47	40	35
7	62	47	38	32	60	47	38	32	45	37	31	44	36	31	42	36	31
8	57	43	34	28	56	42	34	28	41	33	28	40	33	27	38	32	27
9	53	39	31	25	52	39	30	25	37	30	25	36	29	24	35	29	24
10	50	36	28	22	48	35	27	22	34	27	22	33	27	22	33	26	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1113	1113	1113
5°	1121	1122	1121
10°	1144	1144	1142
15°	1182	1180	1177
20°	1242	1234	1223
25°	1321	1304	1285
30°	1417	1388	1358
35°	1527	1483	1438
40°	1638	1579	1512
45°	1737	1660	1576
50°	1798	1713	1600
55°	1818	1719	1596
60°	1780	1685	1555
65°	1704	1622	1494
70°	1587	1534	1414
75°	1453	1443	1339
80°	1409	1381	1282
85°	1309	1366	1281

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 55°
Luminance: 1818 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.5	2.3
10°-20°	240.7	6.9
20°-30°	406.5	11.6
30°-40°	565.5	16.2
40°-50°	669.4	19.1
50°-60°	649.5	18.6
60°-70°	500.4	14.3
70°-80°	292.0	8.3
80°-90°	95.4	2.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	726.7	20.8
0°-40°	1292.2	36.9
0°-60°	2611.2	74.6
0°-90°	3499.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3499.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	827	827	827	827	827	
5°	830	830	830	830	830	79
15°	849	849	847	845	845	241
25°	890	886	878	869	865	412
35°	930	922	903	884	876	582
45°	913	901	873	843	828	701
55°	775	762	733	699	680	688
65°	535	529	510	483	469	529
75°	280	286	278	265	258	299
85°	85	89	88	87	83	95
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	827.4	827.4	827.4	827.4	827.4
2.5°	828.0	828.7	828.7	828.7	828.7
5°	829.9	830.5	830.5	830.5	829.9
7.5°	832.9	832.9	833.5	832.9	831.1
10°	837.2	837.2	837.2	836.6	836.0
12.5°	842.1	842.7	841.5	840.9	840.2
15°	848.8	848.8	847.0	845.1	845.1
17.5°	857.9	856.7	854.3	851.2	850.0
20°	867.1	865.9	861.6	856.7	854.3
22.5°	877.5	875.0	869.5	862.8	860.4
25°	889.7	886.0	878.1	868.9	865.3
27.5°	900.7	895.8	886.0	875.6	869.5
30°	912.2	906.1	893.3	879.9	873.8
32.5°	921.4	915.3	898.8	883.6	875.6
35°	929.9	922.0	903.1	884.2	875.6
37.5°	933.6	925.1	903.1	881.1	870.1
40°	932.4	923.2	898.8	873.8	861.0
42.5°	926.3	915.3	889.1	861.0	846.3
45°	912.9	900.7	872.6	842.7	828.0
47.5°	889.7	877.5	847.6	815.8	798.1
50°	859.2	846.3	818.3	782.9	764.6
52.5°	820.7	807.9	778.6	742.6	724.9
55°	775.0	761.5	732.8	698.7	680.4
57.5°	718.8	709.1	681.0	648.6	630.9
60°	661.5	651.7	626.1	595.6	577.9
62.5°	599.8	591.9	568.7	540.0	524.8
65°	535.1	529.0	509.5	483.3	469.2
67.5°	469.2	466.8	449.1	426.5	414.3
70°	403.3	404.6	389.9	369.8	359.4
72.5°	339.3	343.5	331.9	315.5	308.2
75°	279.5	286.2	277.6	264.8	257.5
77.5°	223.9	233.1	225.8	216.0	209.9
80°	181.8	181.2	178.2	170.9	165.4
82.5°	130.6	133.0	131.2	126.9	123.9
85°	84.8	89.1	88.5	86.6	83.0
87.5°	42.1	47.0	47.6	46.4	44.5
90°	0.0	0.0	0.0	0.0	0.0

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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room Dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	14.8	16.5	15.1	16.8	17.1	14.1	15.8	14.5	16.1	16.5
	3H	16.6	18.2	17.0	18.5	18.8	15.9	17.5	16.3	17.8	18.1
	4H	17.3	18.7	17.6	19.1	19.5	16.6	18.1	17.0	18.4	18.8
	6H	17.8	19.2	18.2	19.5	19.9	17.1	18.5	17.5	18.9	19.3
	8H	18.0	19.3	18.4	19.7	20.1	17.3	18.7	17.8	19.0	19.4
	12H	18.1	19.4	18.5	19.8	20.2	17.5	18.8	17.9	19.2	19.6
4H	2H	15.4	16.9	15.8	17.2	17.6	14.8	16.3	15.2	16.7	17.0
	3H	17.4	18.7	17.8	19.1	19.5	16.8	18.1	17.2	18.5	18.9
	4H	18.2	19.4	18.7	19.8	20.2	17.7	18.8	18.1	19.2	19.6
	6H	18.9	19.9	19.4	20.3	20.8	18.3	19.4	18.8	19.8	20.2
	8H	19.2	20.1	19.6	20.5	21.0	18.6	19.6	19.1	20.0	20.5
	12H	19.4	20.2	19.8	20.7	21.2	18.8	19.7	19.3	20.2	20.6
8H	4H	18.5	19.5	19.0	19.9	20.4	18.0	19.0	18.5	19.4	19.9
	6H	19.4	20.2	19.9	20.6	21.1	18.9	19.7	19.4	20.2	20.6
	8H	19.7	20.4	20.2	20.9	21.4	19.2	19.9	19.7	20.4	20.9
	12H	20.0	20.6	20.5	21.1	21.7	19.6	20.2	20.1	20.7	21.2
12H	4H	18.6	19.4	19.1	19.9	20.4	18.1	19.0	18.6	19.4	19.9
	6H	19.4	20.2	20.0	20.6	21.2	19.0	19.7	19.5	20.2	20.7
	8H	19.8	20.5	20.3	21.0	21.5	19.4	20.0	19.9	20.5	21.1















(END OF REPORT)