

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: P1527108

Luminaire Tested: 24CGTX-40HE-F125-L830

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1527108
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-L830
Description: CGTX with F125 Lens Option

Light Source:
Ballast/Driver: -

Summary

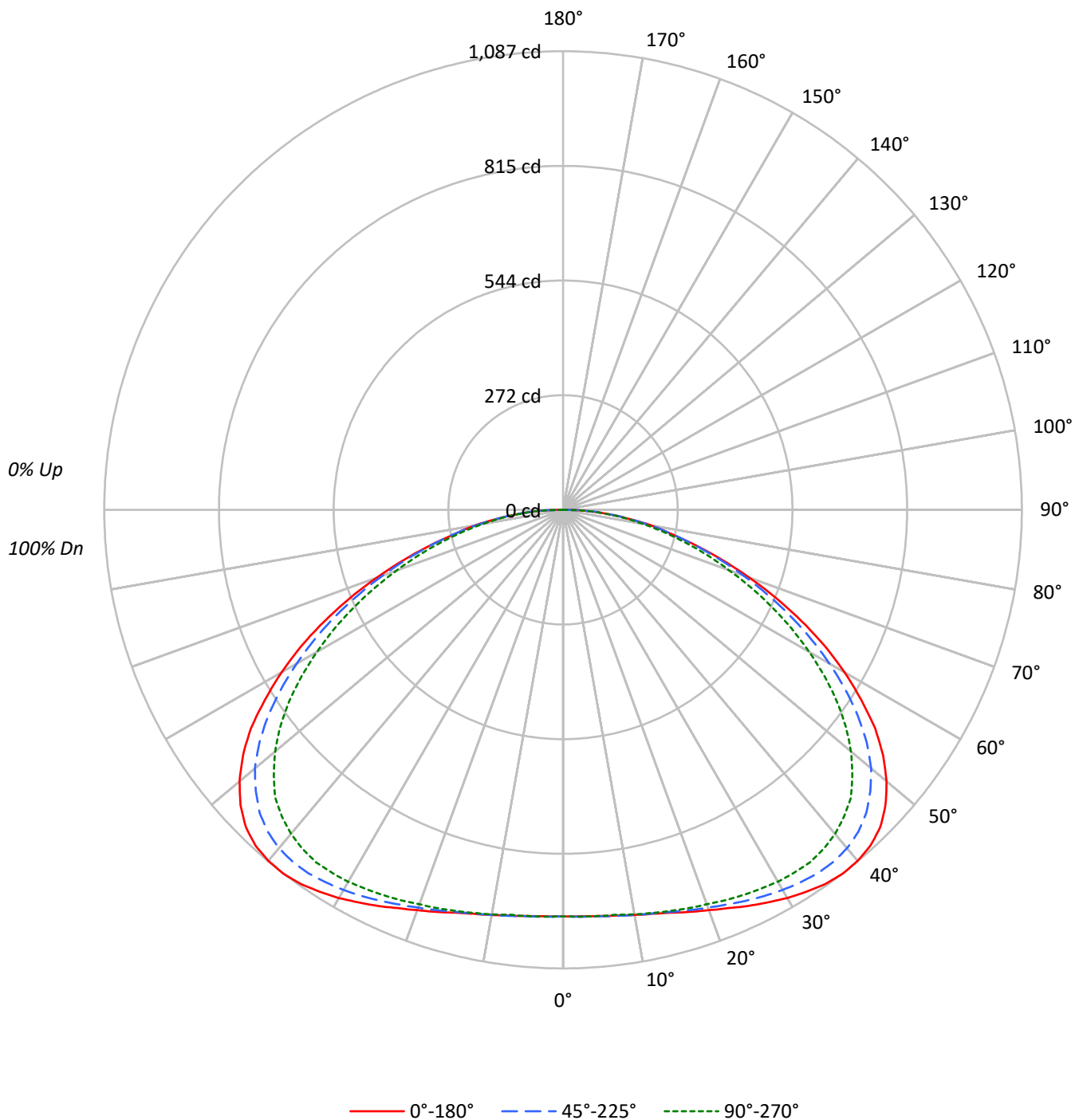
Lumens per Lamp: N/A
Luminaire Lumens: 4075.0 lumens
Efficiency: N/A
Efficacy: 136.3 lumens/watt
Spacing Criteria (0/90/45): 1.69 / 1.6 / 1.72
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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				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	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			
1	108	102	98	94	105	100	96	92	96	92	89	92	89	86	88	86	84	82			
2	97	88	81	74	94	86	79	74	83	77	72	79	74	70	76	72	69	66			
3	88	76	68	61	85	75	67	60	72	65	59	69	63	58	66	61	57	54			
4	80	67	57	50	77	66	57	50	63	55	49	61	54	48	58	53	48	45			
5	73	59	50	43	71	58	49	42	56	48	42	54	47	41	52	46	41	39			
6	67	53	43	36	65	52	43	36	50	42	36	48	41	36	47	40	35	33			
7	62	47	38	32	60	47	38	32	45	37	31	44	36	31	42	36	31	29			
8	57	43	34	28	56	42	34	28	41	33	28	40	33	27	38	32	27	25			
9	53	39	31	25	52	39	30	25	37	30	25	36	29	24	35	29	24	22			
10	50	36	28	22	48	35	27	22	34	27	22	33	27	22	33	26	22	20			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1297	1297	1297
5°	1305	1306	1305
10°	1332	1332	1330
15°	1377	1374	1371
20°	1446	1437	1425
25°	1538	1518	1496
30°	1651	1616	1581
35°	1779	1728	1675
40°	1907	1839	1761
45°	2023	1934	1835
50°	2094	1995	1864
55°	2117	2002	1859
60°	2073	1962	1811
65°	1984	1889	1740
70°	1848	1786	1647
75°	1692	1681	1559
80°	1641	1608	1492
85°	1525	1590	1491

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 55°
Luminance: 2117 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.5	2.3
10°-20°	280.3	6.9
20°-30°	473.5	11.6
30°-40°	658.6	16.2
40°-50°	779.6	19.1
50°-60°	756.4	18.6
60°-70°	582.8	14.3
70°-80°	340.1	8.3
80°-90°	111.1	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°	846.3	20.8
0°-40°	1505.0	36.9
0°-60°	3041.0	74.6
0°-90°	4075.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4075.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	964	964	964	964	964	
5°	966	967	967	967	966	93
15°	988	988	986	984	984	281
25°	1036	1032	1023	1012	1008	480
35°	1083	1074	1052	1030	1020	678
45°	1063	1049	1016	981	964	816
55°	902	887	854	814	792	801
65°	623	616	593	563	546	616
75°	326	333	323	308	300	349
85°	99	104	103	101	97	110
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	963.6	963.6	963.6	963.6	963.6
2.5°	964.4	965.1	965.1	965.1	965.1
5°	966.5	967.2	967.2	967.2	966.5
7.5°	970.0	970.0	970.7	970.0	967.9
10°	975.0	975.0	975.0	974.3	973.6
12.5°	980.7	981.4	980.0	979.3	978.6
15°	988.5	988.5	986.4	984.3	984.3
17.5°	999.2	997.8	994.9	991.4	989.9
20°	1009.8	1008.4	1003.4	997.8	994.9
22.5°	1021.9	1019.1	1012.7	1004.9	1002.0
25°	1036.1	1031.9	1022.6	1012.0	1007.7
27.5°	1048.9	1043.2	1031.9	1019.8	1012.7
30°	1062.4	1055.3	1040.4	1024.8	1017.7
32.5°	1073.1	1066.0	1046.8	1029.0	1019.8
35°	1083.0	1073.8	1051.8	1029.7	1019.8
37.5°	1087.3	1077.3	1051.8	1026.2	1013.4
40°	1085.9	1075.2	1046.8	1017.7	1002.7
42.5°	1078.8	1066.0	1035.4	1002.7	985.7
45°	1063.1	1048.9	1016.2	981.4	964.4
47.5°	1036.1	1021.9	987.1	950.1	929.5
50°	1000.6	985.7	953.0	911.8	890.4
52.5°	955.8	940.9	906.8	864.9	844.3
55°	902.5	886.9	853.5	813.7	792.4
57.5°	837.1	825.8	793.1	755.4	734.8
60°	770.3	759.0	729.1	693.6	673.0
62.5°	698.6	689.3	662.3	628.9	611.2
65°	623.2	616.1	593.4	562.8	546.5
67.5°	546.5	543.6	523.0	496.7	482.5
70°	469.7	471.2	454.1	430.7	418.6
72.5°	395.1	400.1	386.6	367.4	358.9
75°	325.5	333.3	323.3	308.4	299.9
77.5°	260.8	271.5	262.9	251.6	244.5
80°	211.8	211.1	207.5	199.0	192.6
82.5°	152.1	154.9	152.8	147.8	144.3
85°	98.8	103.8	103.0	100.9	96.6
87.5°	49.0	54.7	55.4	54.0	51.9
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	15.3	17.0	15.7	17.3	17.7	14.6	16.4	15.0	16.7	17.0
	3H	17.1	18.7	17.5	19.0	19.4	16.4	18.0	16.8	18.3	18.7
	4H	17.8	19.3	18.2	19.6	20.0	17.1	18.6	17.5	18.9	19.3
	6H	18.3	19.7	18.7	20.1	20.4	17.7	19.0	18.1	19.4	19.8
	8H	18.5	19.8	18.9	20.2	20.6	17.9	19.2	18.3	19.6	20.0
	12H	18.6	19.9	19.1	20.3	20.7	18.0	19.3	18.5	19.7	20.1
4H	2H	15.9	17.4	16.3	17.7	18.1	15.4	16.9	15.8	17.2	17.6
	3H	17.9	19.2	18.3	19.6	20.0	17.4	18.6	17.8	19.0	19.4
	4H	18.8	19.9	19.2	20.3	20.7	18.2	19.3	18.6	19.7	20.2
	6H	19.4	20.4	19.9	20.9	21.3	18.9	19.9	19.3	20.3	20.8
	8H	19.7	20.6	20.1	21.1	21.5	19.1	20.1	19.6	20.5	21.0
	12H	19.9	20.7	20.4	21.2	21.7	19.4	20.2	19.8	20.7	21.2
8H	4H	19.1	20.0	19.5	20.5	20.9	18.6	19.5	19.0	20.0	20.4
	6H	19.9	20.7	20.4	21.2	21.6	19.4	20.2	19.9	20.7	21.2
	8H	20.2	20.9	20.7	21.4	21.9	19.8	20.5	20.3	21.0	21.5
	12H	20.5	21.2	21.0	21.7	22.2	20.1	20.7	20.6	21.2	21.8
12H	4H	19.1	20.0	19.6	20.4	20.9	18.6	19.5	19.1	20.0	20.4
	6H	20.0	20.7	20.5	21.1	21.7	19.5	20.2	20.0	20.7	21.2
	8H	20.4	21.0	20.9	21.5	22.0	19.9	20.6	20.4	21.0	21.6













(END OF REPORT)