

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: P1527150

Luminaire Tested: 24CGTX-72-F125-L840

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1527150
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-72-F125-L840
Description: CGTX with F125 Lens Option

Light Source:
Ballast/Driver: -

Summary

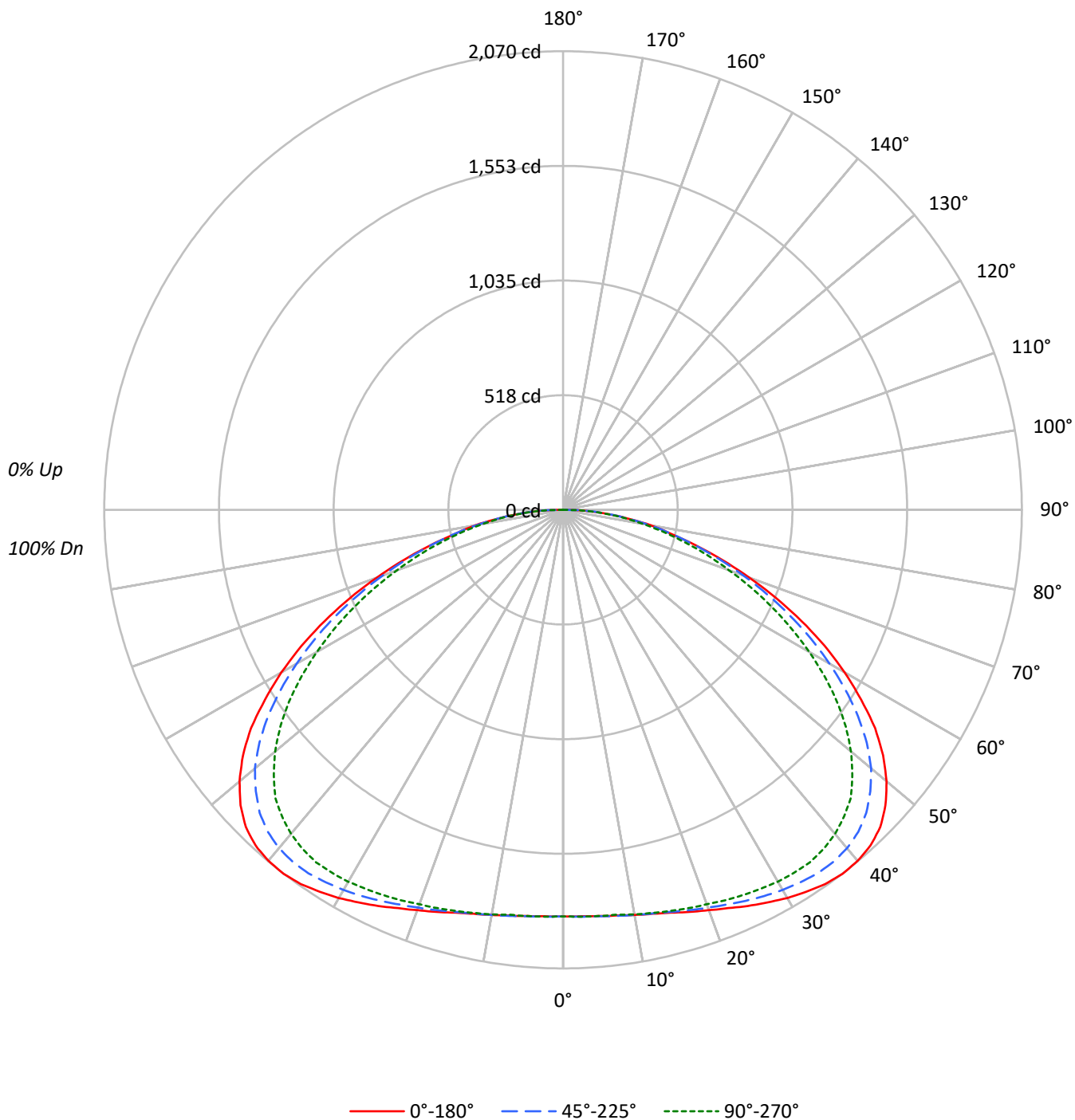
Lumens per Lamp: N/A
Luminaire Lumens: 7760.0 lumens
Efficiency: N/A
Efficacy: 127.4 lumens/watt
Spacing Criteria (0/90/45): 1.69 / 1.6 / 1.72
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 60.9
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°	2469	2469	2469
5°	2486	2488	2486
10°	2537	2537	2533
15°	2622	2617	2611
20°	2753	2736	2713
25°	2929	2891	2849
30°	3143	3078	3011
35°	3388	3290	3190
40°	3632	3501	3354
45°	3852	3682	3494
50°	3988	3799	3549
55°	4032	3813	3540
60°	3948	3736	3449
65°	3778	3598	3313
70°	3519	3402	3136
75°	3222	3201	2969
80°	3125	3062	2841
85°	2904	3029	2841

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 55°

Luminance: 4032 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.2	2.3
10°-20°	533.8	6.9
20°-30°	901.6	11.6
30°-40°	1254.2	16.2
40°-50°	1484.7	19.1
50°-60°	1440.4	18.6
60°-70°	1109.8	14.3
70°-80°	647.6	8.3
80°-90°	211.6	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°	1611.7	20.8
0°-40°	2865.9	36.9
0°-60°	5791.0	74.6
0°-90°	7760.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7760.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1835	1835	1835	1835	1835	
5°	1840	1842	1842	1842	1840	176
15°	1882	1882	1878	1874	1874	535
25°	1973	1965	1947	1927	1919	914
35°	2062	2045	2003	1961	1942	1292
45°	2024	1998	1935	1869	1836	1555
55°	1719	1689	1625	1550	1509	1526
65°	1187	1173	1130	1072	1041	1172
75°	620	635	616	587	571	664
85°	188	198	196	192	184	210
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1835.1	1835.1	1835.1	1835.1	1835.1
2.5°	1836.4	1837.8	1837.8	1837.8	1837.8
5°	1840.5	1841.8	1841.8	1841.8	1840.5
7.5°	1847.2	1847.2	1848.6	1847.2	1843.2
10°	1856.7	1856.7	1856.7	1855.4	1854.0
12.5°	1867.5	1868.9	1866.2	1864.8	1863.5
15°	1882.4	1882.4	1878.4	1874.3	1874.3
17.5°	1902.7	1900.0	1894.6	1887.8	1885.1
20°	1923.0	1920.3	1910.8	1900.0	1894.6
22.5°	1946.0	1940.6	1928.4	1913.5	1908.1
25°	1973.1	1965.0	1947.4	1927.1	1919.0
27.5°	1997.5	1986.6	1965.0	1942.0	1928.4
30°	2023.2	2009.6	1981.2	1951.4	1937.9
32.5°	2043.5	2029.9	1993.4	1959.6	1942.0
35°	2062.4	2044.8	2002.9	1960.9	1942.0
37.5°	2070.5	2051.6	2002.9	1954.1	1929.8
40°	2067.8	2047.5	1993.4	1937.9	1909.5
42.5°	2054.3	2029.9	1971.7	1909.5	1877.0
45°	2024.5	1997.5	1935.2	1868.9	1836.4
47.5°	1973.1	1946.0	1879.7	1809.3	1770.1
50°	1905.4	1877.0	1814.8	1736.3	1695.7
52.5°	1820.2	1791.8	1726.8	1646.9	1607.7
55°	1718.7	1688.9	1625.3	1549.5	1508.9
57.5°	1594.2	1572.5	1510.3	1438.5	1399.3
60°	1467.0	1445.3	1388.5	1320.8	1281.6
62.5°	1330.3	1312.7	1261.3	1197.7	1163.8
65°	1186.8	1173.3	1130.0	1071.8	1040.7
67.5°	1040.7	1035.3	996.0	945.9	918.9
70°	894.5	897.2	864.8	820.1	797.1
72.5°	752.4	761.9	736.2	699.6	683.4
75°	619.8	634.7	615.7	587.3	571.1
77.5°	496.7	517.0	500.7	479.1	465.5
80°	403.3	401.9	395.2	378.9	366.7
82.5°	289.6	295.0	291.0	281.5	274.7
85°	188.1	197.6	196.2	192.2	184.0
87.5°	93.4	104.2	105.6	102.8	98.8
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	17.5	19.3	17.9	19.6	19.9	16.9	18.6	17.2	18.9	19.2
	3H	19.3	20.9	19.7	21.3	21.6	18.7	20.2	19.0	20.6	20.9
	4H	20.0	21.5	20.4	21.9	22.2	19.3	20.8	19.7	21.2	21.6
	6H	20.5	21.9	21.0	22.3	22.7	19.9	21.3	20.3	21.6	22.0
	8H	20.7	22.1	21.2	22.5	22.9	20.1	21.4	20.5	21.8	22.2
	12H	20.9	22.2	21.3	22.5	23.0	20.3	21.5	20.7	21.9	22.3
4H	2H	18.1	19.6	18.5	20.0	20.3	17.6	19.1	18.0	19.4	19.8
	3H	20.2	21.4	20.6	21.8	22.2	19.6	20.9	20.0	21.3	21.7
	4H	21.0	22.1	21.4	22.5	23.0	20.4	21.6	20.9	22.0	22.4
	6H	21.7	22.7	22.1	23.1	23.6	21.1	22.1	21.6	22.6	23.0
	8H	21.9	22.9	22.4	23.3	23.8	21.4	22.3	21.8	22.8	23.2
	12H	22.1	23.0	22.6	23.5	23.9	21.6	22.5	22.1	22.9	23.4
8H	4H	21.3	22.3	21.8	22.7	23.2	20.8	21.8	21.3	22.2	22.7
	6H	22.1	22.9	22.6	23.4	23.9	21.6	22.4	22.1	22.9	23.4
	8H	22.5	23.2	23.0	23.7	24.2	22.0	22.7	22.5	23.2	23.7
	12H	22.8	23.4	23.3	23.9	24.4	22.3	22.9	22.8	23.4	24.0
12H	4H	21.4	22.2	21.8	22.7	23.1	20.9	21.7	21.3	22.2	22.7
	6H	22.2	22.9	22.7	23.4	23.9	21.8	22.5	22.3	22.9	23.5
	8H	22.6	23.2	23.1	23.7	24.3	22.2	22.8	22.7	23.3	23.8















(END OF REPORT)