

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: P1527148

Luminaire Tested: 24CGTX-72-F125-L830

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1527148
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-L830
Description: CGTX with F125 Lens Option

Light Source:
Ballast/Driver: -

Summary

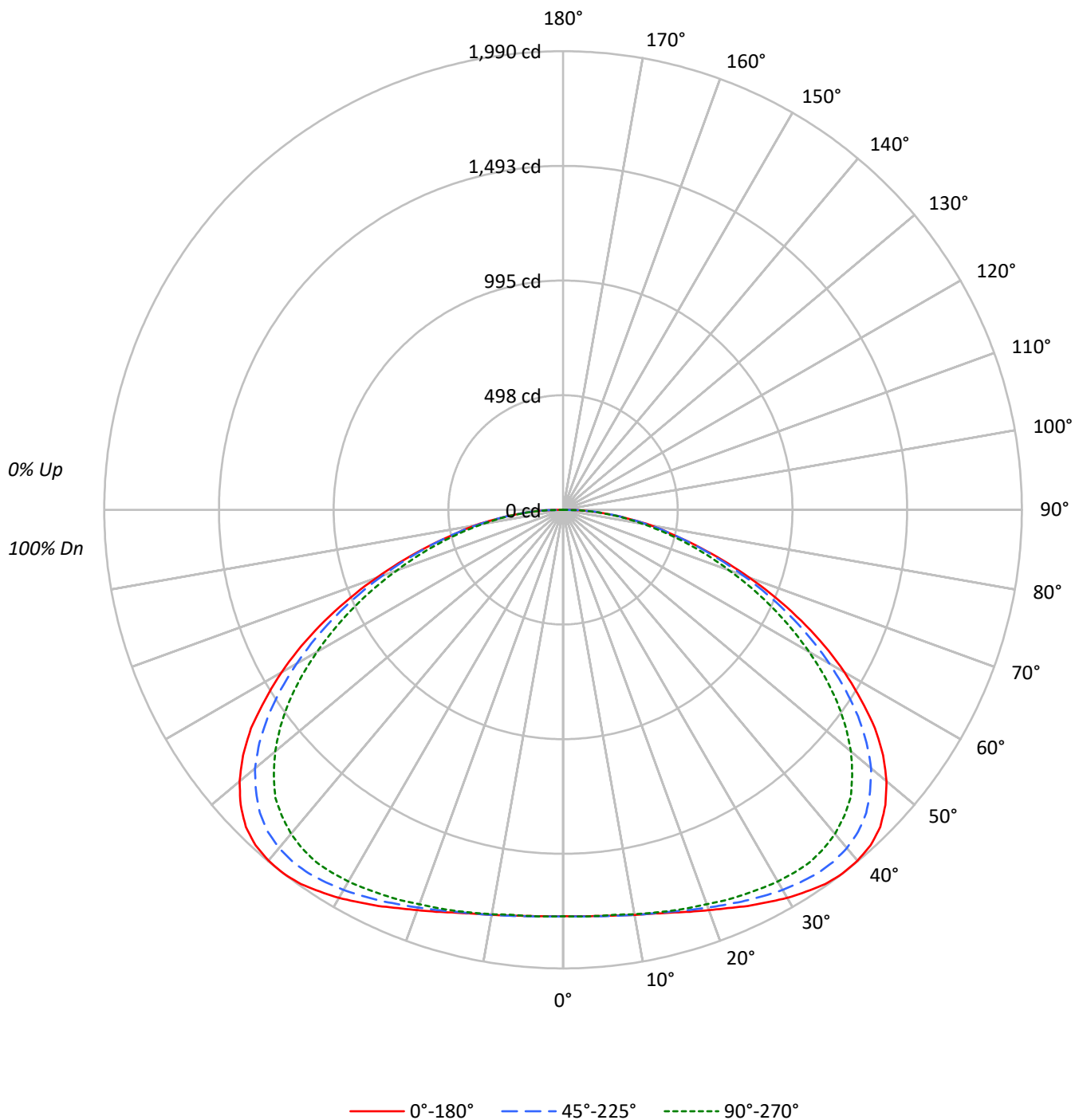
Lumens per Lamp: N/A
Luminaire Lumens: 7458.0 lumens
Efficiency: N/A
Efficacy: 122.5 lumens/watt
Spacing Criteria (0/90/45): 1.69 / 1.6 / 1.72
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	2373	2373	2373
5°	2389	2391	2389
10°	2438	2438	2434
15°	2520	2515	2509
20°	2646	2630	2607
25°	2815	2779	2738
30°	3021	2958	2894
35°	3256	3162	3066
40°	3491	3365	3223
45°	3702	3539	3358
50°	3833	3651	3411
55°	3875	3664	3402
60°	3794	3591	3314
65°	3631	3457	3184
70°	3382	3270	3014
75°	3097	3077	2853
80°	3003	2943	2731
85°	2791	2912	2731

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 55°

Luminance: 3875 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.4	2.3
10°-20°	513.1	6.9
20°-30°	866.5	11.6
30°-40°	1205.4	16.2
40°-50°	1426.9	19.1
50°-60°	1384.4	18.6
60°-70°	1066.6	14.3
70°-80°	622.3	8.3
80°-90°	203.4	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°	1549.0	20.8
0°-40°	2754.4	36.9
0°-60°	5565.6	74.6
0°-90°	7458.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7458.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1764	1764	1764	1764	1764	
5°	1769	1770	1770	1770	1769	169
15°	1809	1809	1805	1801	1801	515
25°	1896	1888	1872	1852	1844	879
35°	1982	1965	1925	1885	1866	1242
45°	1946	1920	1860	1796	1765	1494
55°	1652	1623	1562	1489	1450	1466
65°	1141	1128	1086	1030	1000	1127
75°	596	610	592	564	549	638
85°	181	190	189	185	177	202
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1763.6	1763.6	1763.6	1763.6	1763.6
2.5°	1764.9	1766.2	1766.2	1766.2	1766.2
5°	1768.8	1770.1	1770.1	1770.1	1768.8
7.5°	1775.3	1775.3	1776.6	1775.3	1771.4
10°	1784.5	1784.5	1784.5	1783.2	1781.8
12.5°	1794.9	1796.2	1793.6	1792.3	1791.0
15°	1809.2	1809.2	1805.3	1801.4	1801.4
17.5°	1828.7	1826.1	1820.9	1814.4	1811.8
20°	1848.2	1845.6	1836.5	1826.1	1820.9
22.5°	1870.3	1865.1	1853.4	1839.1	1833.9
25°	1896.3	1888.5	1871.6	1852.1	1844.3
27.5°	1919.7	1909.3	1888.5	1866.4	1853.4
30°	1944.4	1931.4	1904.1	1875.5	1862.5
32.5°	1963.9	1950.9	1915.8	1883.3	1866.4
35°	1982.1	1965.2	1924.9	1884.6	1866.4
37.5°	1989.9	1971.7	1924.9	1878.1	1854.7
40°	1987.3	1967.8	1915.8	1862.5	1835.2
42.5°	1974.3	1950.9	1895.0	1835.2	1804.0
45°	1945.7	1919.7	1859.9	1796.2	1764.9
47.5°	1896.3	1870.3	1806.6	1738.9	1701.2
50°	1831.3	1804.0	1744.1	1668.7	1629.7
52.5°	1749.3	1722.0	1659.6	1582.9	1545.1
55°	1651.8	1623.2	1562.0	1489.2	1450.2
57.5°	1532.1	1511.3	1451.5	1382.6	1344.8
60°	1409.9	1389.1	1334.4	1269.4	1231.7
62.5°	1278.5	1261.6	1212.2	1151.0	1118.5
65°	1140.6	1127.6	1086.0	1030.1	1000.2
67.5°	1000.2	995.0	957.3	909.1	883.1
70°	859.7	862.3	831.1	788.2	766.1
72.5°	723.1	732.2	707.5	672.4	656.8
75°	595.7	610.0	591.8	564.5	548.9
77.5°	477.3	496.8	481.2	460.4	447.4
80°	387.6	386.3	379.8	364.2	352.5
82.5°	278.3	283.5	279.6	270.5	264.0
85°	180.8	189.9	188.6	184.7	176.9
87.5°	89.7	100.1	101.4	98.8	94.9
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	17.4	19.1	17.8	19.4	19.8	16.7	18.5	17.1	18.8	19.1
	3H	19.2	20.8	19.6	21.1	21.5	18.5	20.1	18.9	20.4	20.8
	4H	19.9	21.4	20.3	21.7	22.1	19.2	20.7	19.6	21.0	21.4
	6H	20.4	21.8	20.8	22.2	22.5	19.8	21.1	20.2	21.5	21.9
	8H	20.6	21.9	21.0	22.3	22.7	20.0	21.3	20.4	21.7	22.1
	12H	20.7	22.0	21.2	22.4	22.8	20.1	21.4	20.6	21.8	22.2
4H	2H	18.0	19.5	18.4	19.8	20.2	17.5	19.0	17.9	19.3	19.7
	3H	20.0	21.3	20.4	21.7	22.1	19.5	20.7	19.9	21.1	21.5
	4H	20.9	22.0	21.3	22.4	22.8	20.3	21.4	20.7	21.8	22.3
	6H	21.5	22.5	22.0	23.0	23.4	21.0	22.0	21.4	22.4	22.9
	8H	21.8	22.7	22.2	23.2	23.6	21.2	22.2	21.7	22.6	23.1
	12H	22.0	22.8	22.5	23.3	23.8	21.5	22.3	21.9	22.8	23.3
8H	4H	21.2	22.1	21.6	22.6	23.0	20.7	21.6	21.1	22.1	22.5
	6H	22.0	22.8	22.5	23.3	23.7	21.5	22.3	22.0	22.8	23.3
	8H	22.3	23.0	22.8	23.5	24.0	21.9	22.6	22.4	23.1	23.6
	12H	22.6	23.3	23.1	23.8	24.3	22.2	22.8	22.7	23.3	23.9
12H	4H	21.2	22.1	21.7	22.5	23.0	20.7	21.6	21.2	22.1	22.5
	6H	22.1	22.8	22.6	23.2	23.8	21.6	22.3	22.1	22.8	23.3
	8H	22.5	23.1	23.0	23.6	24.1	22.0	22.7	22.5	23.1	23.7















(END OF REPORT)