

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: P1527151

Luminaire Tested: 24CGTX-72-F125-L850

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1527151
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-L850
Description: CGTX with F125 Lens Option

Light Source:
Ballast/Driver: -

Summary

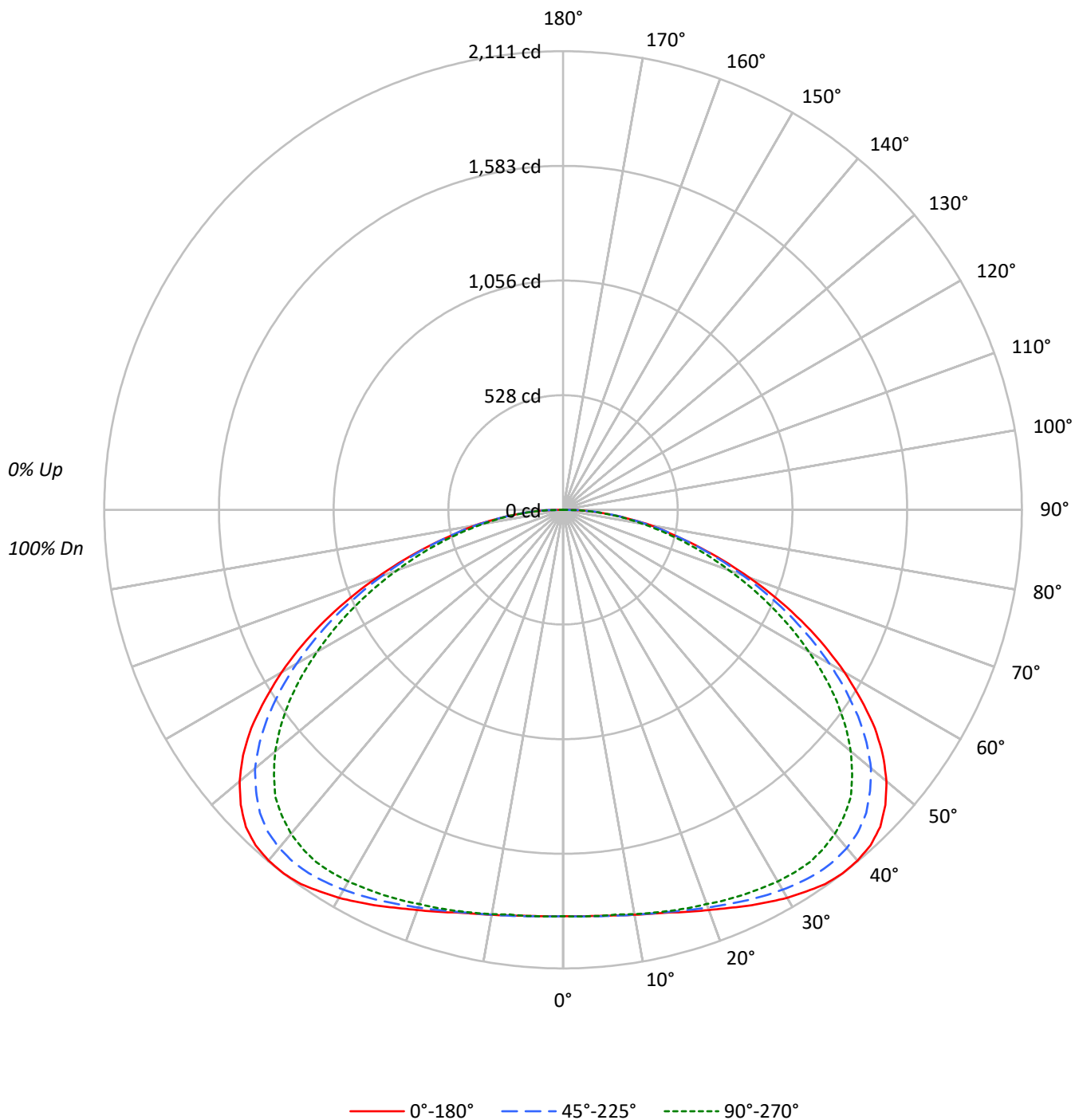
Lumens per Lamp: N/A
Luminaire Lumens: 7910.0 lumens
Efficiency: N/A
Efficacy: 129.9 lumens/watt
Spacing Criteria (0/90/45): 1.69 / 1.6 / 1.72
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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			
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
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°	2517	2517	2517
5°	2534	2536	2534
10°	2586	2586	2582
15°	2673	2667	2661
20°	2807	2789	2765
25°	2986	2947	2904
30°	3204	3138	3069
35°	3453	3353	3251
40°	3702	3569	3419
45°	3927	3753	3562
50°	4066	3872	3618
55°	4110	3886	3608
60°	4024	3809	3515
65°	3852	3667	3377
70°	3587	3468	3196
75°	3284	3263	3026
80°	3185	3121	2896
85°	2959	3088	2896

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 55°

Luminance: 4110 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.6	2.3
10°-20°	544.2	6.9
20°-30°	919.0	11.6
30°-40°	1278.5	16.2
40°-50°	1513.4	19.1
50°-60°	1468.3	18.6
60°-70°	1131.3	14.3
70°-80°	660.1	8.3
80°-90°	215.7	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°	1642.8	20.8
0°-40°	2921.3	36.9
0°-60°	5902.9	74.6
0°-90°	7910.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7910.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1870	1870	1870	1870	1870	
5°	1876	1877	1877	1877	1876	180
15°	1919	1919	1915	1910	1910	546
25°	2011	2003	1985	1964	1956	932
35°	2102	2084	2042	1999	1980	1317
45°	2064	2036	1973	1905	1872	1585
55°	1752	1722	1657	1580	1538	1555
65°	1210	1196	1152	1092	1061	1195
75°	632	647	628	599	582	677
85°	192	201	200	196	188	214
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1870.5	1870.5	1870.5	1870.5	1870.5
2.5°	1871.9	1873.3	1873.3	1873.3	1873.3
5°	1876.0	1877.4	1877.4	1877.4	1876.0
7.5°	1882.9	1882.9	1884.3	1882.9	1878.8
10°	1892.6	1892.6	1892.6	1891.2	1889.8
12.5°	1903.6	1905.0	1902.3	1900.9	1899.5
15°	1918.8	1918.8	1914.7	1910.5	1910.5
17.5°	1939.5	1936.7	1931.2	1924.3	1921.6
20°	1960.2	1957.4	1947.8	1936.7	1931.2
22.5°	1983.6	1978.1	1965.7	1950.5	1945.0
25°	2011.2	2003.0	1985.0	1964.3	1956.1
27.5°	2036.1	2025.0	2003.0	1979.5	1965.7
30°	2062.3	2048.5	2019.5	1989.2	1975.4
32.5°	2083.0	2069.2	2031.9	1997.4	1979.5
35°	2102.3	2084.3	2041.6	1998.8	1979.5
37.5°	2110.6	2091.2	2041.6	1991.9	1967.1
40°	2107.8	2087.1	2031.9	1975.4	1946.4
42.5°	2094.0	2069.2	2009.9	1946.4	1913.3
45°	2063.7	2036.1	1972.6	1905.0	1871.9
47.5°	2011.2	1983.6	1916.0	1844.3	1804.3
50°	1942.3	1913.3	1849.8	1769.8	1728.4
52.5°	1855.4	1826.4	1760.2	1678.8	1638.8
55°	1751.9	1721.5	1656.7	1579.5	1538.1
57.5°	1625.0	1602.9	1539.5	1466.4	1426.3
60°	1495.3	1473.2	1415.3	1346.3	1306.3
62.5°	1356.0	1338.1	1285.6	1220.8	1186.3
65°	1209.8	1196.0	1151.8	1092.5	1060.8
67.5°	1060.8	1055.3	1015.3	964.2	936.6
70°	911.8	914.6	881.5	835.9	812.5
72.5°	767.0	776.6	750.4	713.2	696.6
75°	631.8	647.0	627.6	598.7	582.1
77.5°	506.3	526.9	510.4	488.3	474.5
80°	411.1	409.7	402.8	386.2	373.8
82.5°	295.2	300.7	296.6	286.9	280.0
85°	191.7	201.4	200.0	195.9	187.6
87.5°	95.2	106.2	107.6	104.8	100.7
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	17.6	19.3	18.0	19.6	20.0	16.9	18.7	17.3	19.0	19.3
	3H	19.4	21.0	19.8	21.3	21.7	18.7	20.3	19.1	20.6	21.0
	4H	20.1	21.6	20.5	21.9	22.3	19.4	20.9	19.8	21.2	21.6
	6H	20.6	22.0	21.0	22.4	22.7	20.0	21.3	20.4	21.7	22.1
	8H	20.8	22.1	21.2	22.5	22.9	20.2	21.5	20.6	21.9	22.3
	12H	21.0	22.2	21.4	22.6	23.0	20.3	21.6	20.8	22.0	22.4
4H	2H	18.2	19.7	18.6	20.0	20.4	17.7	19.2	18.1	19.5	19.9
	3H	20.2	21.5	20.7	21.9	22.3	19.7	20.9	20.1	21.3	21.7
	4H	21.1	22.2	21.5	22.6	23.0	20.5	21.6	20.9	22.0	22.5
	6H	21.7	22.7	22.2	23.2	23.6	21.2	22.2	21.6	22.6	23.1
	8H	22.0	22.9	22.4	23.4	23.8	21.4	22.4	21.9	22.8	23.3
	12H	22.2	23.0	22.7	23.5	24.0	21.7	22.5	22.1	23.0	23.5
8H	4H	21.4	22.3	21.8	22.8	23.2	20.9	21.8	21.3	22.3	22.7
	6H	22.2	23.0	22.7	23.5	23.9	21.7	22.5	22.2	23.0	23.5
	8H	22.5	23.2	23.0	23.8	24.2	22.1	22.8	22.6	23.3	23.8
	12H	22.8	23.5	23.3	24.0	24.5	22.4	23.0	22.9	23.5	24.1
12H	4H	21.4	22.3	21.9	22.7	23.2	20.9	21.8	21.4	22.3	22.7
	6H	22.3	23.0	22.8	23.5	24.0	21.8	22.5	22.3	23.0	23.5
	8H	22.7	23.3	23.2	23.8	24.4	22.2	22.9	22.7	23.3	23.9













(END OF REPORT)