

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: P1527149

Luminaire Tested: 24CGTX-72-F125-L835

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1527149
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-L835
Description: CGTX with F125 Lens Option

Light Source:
Ballast/Driver: -

Summary

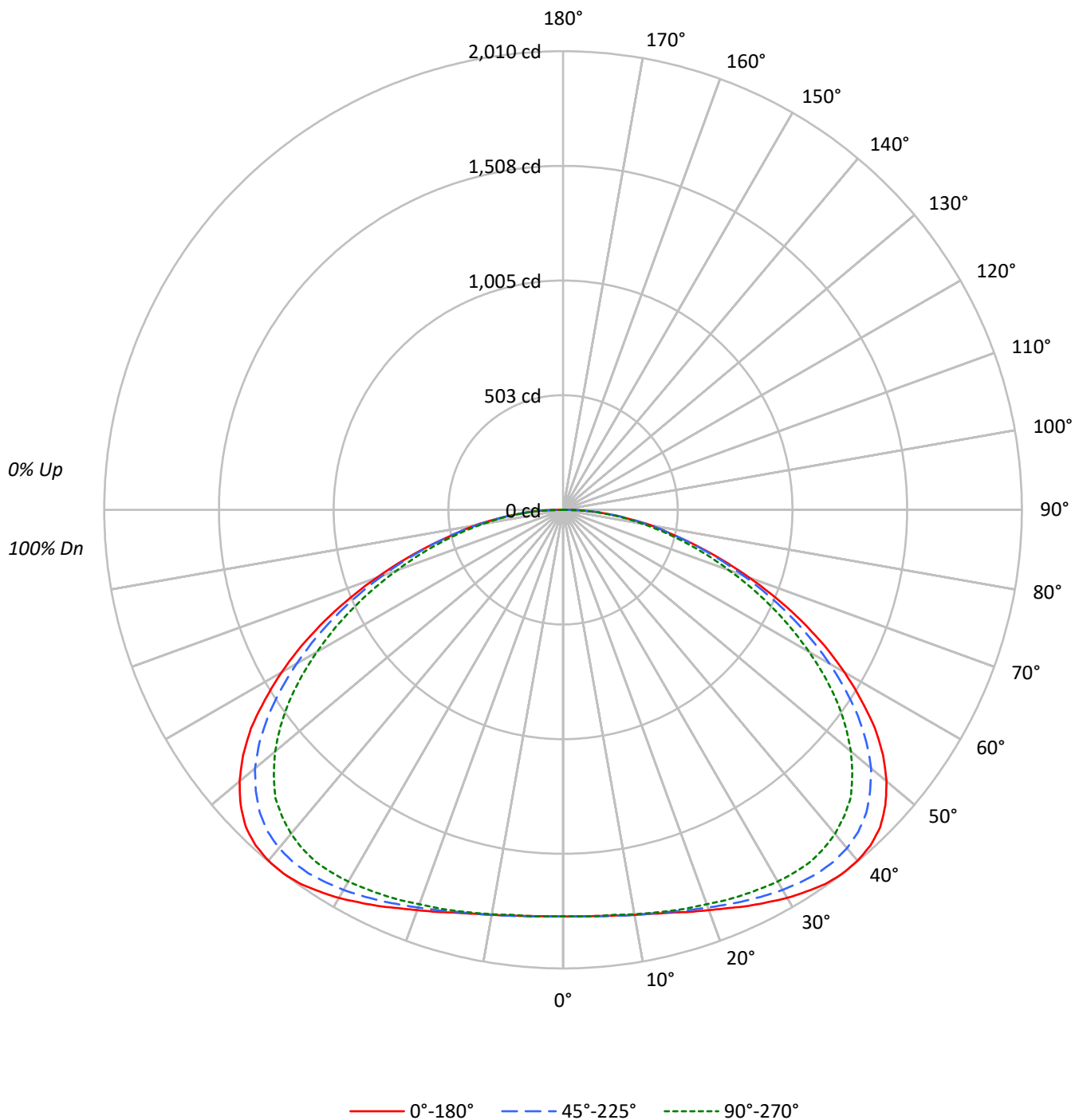
Lumens per Lamp: N/A
Luminaire Lumens: 7533.7 lumens
Efficiency: N/A
Efficacy: 123.7 lumens/watt
Spacing Criteria (0/90/45): 1.69 / 1.6 / 1.72
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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		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°	2397	2397	2397
5°	2413	2415	2413
10°	2463	2463	2459
15°	2546	2540	2535
20°	2673	2656	2634
25°	2844	2807	2766
30°	3052	2988	2923
35°	3289	3194	3097
40°	3526	3399	3256
45°	3740	3575	3393
50°	3872	3688	3446
55°	3914	3701	3436
60°	3832	3627	3348
65°	3668	3493	3216
70°	3416	3303	3044
75°	3128	3108	2882
80°	3033	2972	2758
85°	2819	2941	2759

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 55°

Luminance: 3914 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.1	2.3
10°-20°	518.3	6.9
20°-30°	875.3	11.6
30°-40°	1217.6	16.2
40°-50°	1441.4	19.1
50°-60°	1398.4	18.6
60°-70°	1077.5	14.3
70°-80°	628.7	8.3
80°-90°	205.5	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°	1564.7	20.8
0°-40°	2782.3	36.9
0°-60°	5622.1	74.6
0°-90°	7533.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7533.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1782	1782	1782	1782	1782	
5°	1787	1788	1788	1788	1787	171
15°	1828	1828	1824	1820	1820	520
25°	1916	1908	1891	1871	1863	888
35°	2002	1985	1944	1904	1885	1254
45°	1966	1939	1879	1814	1783	1509
55°	1669	1640	1578	1504	1465	1481
65°	1152	1139	1097	1040	1010	1138
75°	602	616	598	570	554	645
85°	183	192	190	187	179	204
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1781.5	1781.5	1781.5	1781.5	1781.5
2.5°	1782.9	1784.2	1784.2	1784.2	1784.2
5°	1786.8	1788.1	1788.1	1788.1	1786.8
7.5°	1793.4	1793.4	1794.7	1793.4	1789.4
10°	1802.6	1802.6	1802.6	1801.3	1799.9
12.5°	1813.1	1814.4	1811.8	1810.5	1809.1
15°	1827.5	1827.5	1823.6	1819.6	1819.6
17.5°	1847.2	1844.6	1839.4	1832.8	1830.2
20°	1866.9	1864.3	1855.1	1844.6	1839.4
22.5°	1889.3	1884.0	1872.2	1857.7	1852.5
25°	1915.6	1907.7	1890.6	1870.9	1863.0
27.5°	1939.2	1928.7	1907.7	1885.3	1872.2
30°	1964.2	1951.0	1923.4	1894.5	1881.4
32.5°	1983.9	1970.7	1935.3	1902.4	1885.3
35°	2002.3	1985.2	1944.5	1903.7	1885.3
37.5°	2010.2	1991.8	1944.5	1897.2	1873.5
40°	2007.5	1987.8	1935.3	1881.4	1853.8
42.5°	1994.4	1970.7	1914.2	1853.8	1822.3
45°	1965.5	1939.2	1878.8	1814.4	1782.9
47.5°	1915.6	1889.3	1824.9	1756.6	1718.5
50°	1849.9	1822.3	1761.8	1685.6	1646.2
52.5°	1767.1	1739.5	1676.4	1598.9	1560.8
55°	1668.6	1639.7	1577.9	1504.3	1464.9
57.5°	1547.7	1526.7	1466.2	1396.6	1358.5
60°	1424.2	1403.2	1348.0	1282.3	1244.2
62.5°	1291.5	1274.4	1224.5	1162.7	1129.9
65°	1152.2	1139.1	1097.0	1040.5	1010.3
67.5°	1010.3	1005.1	967.0	918.4	892.1
70°	868.4	871.1	839.5	796.2	773.8
72.5°	730.5	739.7	714.7	679.2	663.5
75°	601.7	616.2	597.8	570.2	554.4
77.5°	482.2	501.9	486.1	465.1	452.0
80°	391.5	390.2	383.6	367.9	356.0
82.5°	281.2	286.4	282.5	273.3	266.7
85°	182.6	191.8	190.5	186.6	178.7
87.5°	90.7	101.2	102.5	99.9	95.9
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	19.2	17.8	19.5	19.8	16.8	18.5	17.1	18.8	19.1
	3H	19.2	20.8	19.6	21.2	21.5	18.5	20.1	18.9	20.5	20.8
	4H	19.9	21.4	20.3	21.8	22.1	19.2	20.7	19.6	21.1	21.4
	6H	20.4	21.8	20.9	22.2	22.6	19.8	21.2	20.2	21.5	21.9
	8H	20.6	22.0	21.1	22.4	22.7	20.0	21.3	20.4	21.7	22.1
	12H	20.8	22.1	21.2	22.4	22.9	20.2	21.4	20.6	21.8	22.2
4H	2H	18.0	19.5	18.4	19.9	20.2	17.5	19.0	17.9	19.3	19.7
	3H	20.1	21.3	20.5	21.7	22.1	19.5	20.8	19.9	21.2	21.6
	4H	20.9	22.0	21.3	22.4	22.9	20.3	21.5	20.8	21.9	22.3
	6H	21.6	22.6	22.0	23.0	23.5	21.0	22.0	21.5	22.5	22.9
	8H	21.8	22.8	22.3	23.2	23.7	21.3	22.2	21.7	22.7	23.1
	12H	22.0	22.9	22.5	23.3	23.8	21.5	22.4	22.0	22.8	23.3
8H	4H	21.2	22.1	21.7	22.6	23.1	20.7	21.7	21.2	22.1	22.6
	6H	22.0	22.8	22.5	23.3	23.8	21.5	22.3	22.0	22.8	23.3
	8H	22.4	23.1	22.9	23.6	24.1	21.9	22.6	22.4	23.1	23.6
	12H	22.7	23.3	23.2	23.8	24.3	22.2	22.8	22.7	23.3	23.9
12H	4H	21.3	22.1	21.7	22.6	23.0	20.8	21.6	21.2	22.1	22.6
	6H	22.1	22.8	22.6	23.3	23.8	21.6	22.4	22.2	22.8	23.4
	8H	22.5	23.1	23.0	23.6	24.2	22.1	22.7	22.6	23.2	23.7













(END OF REPORT)