

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: P1527152

Luminaire Tested: 24CGTX-72HE-F125-L830

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1527152
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-72HE-F125-L830
Description: CGTX with F125 Lens Option

Light Source:
Ballast/Driver: -

Summary

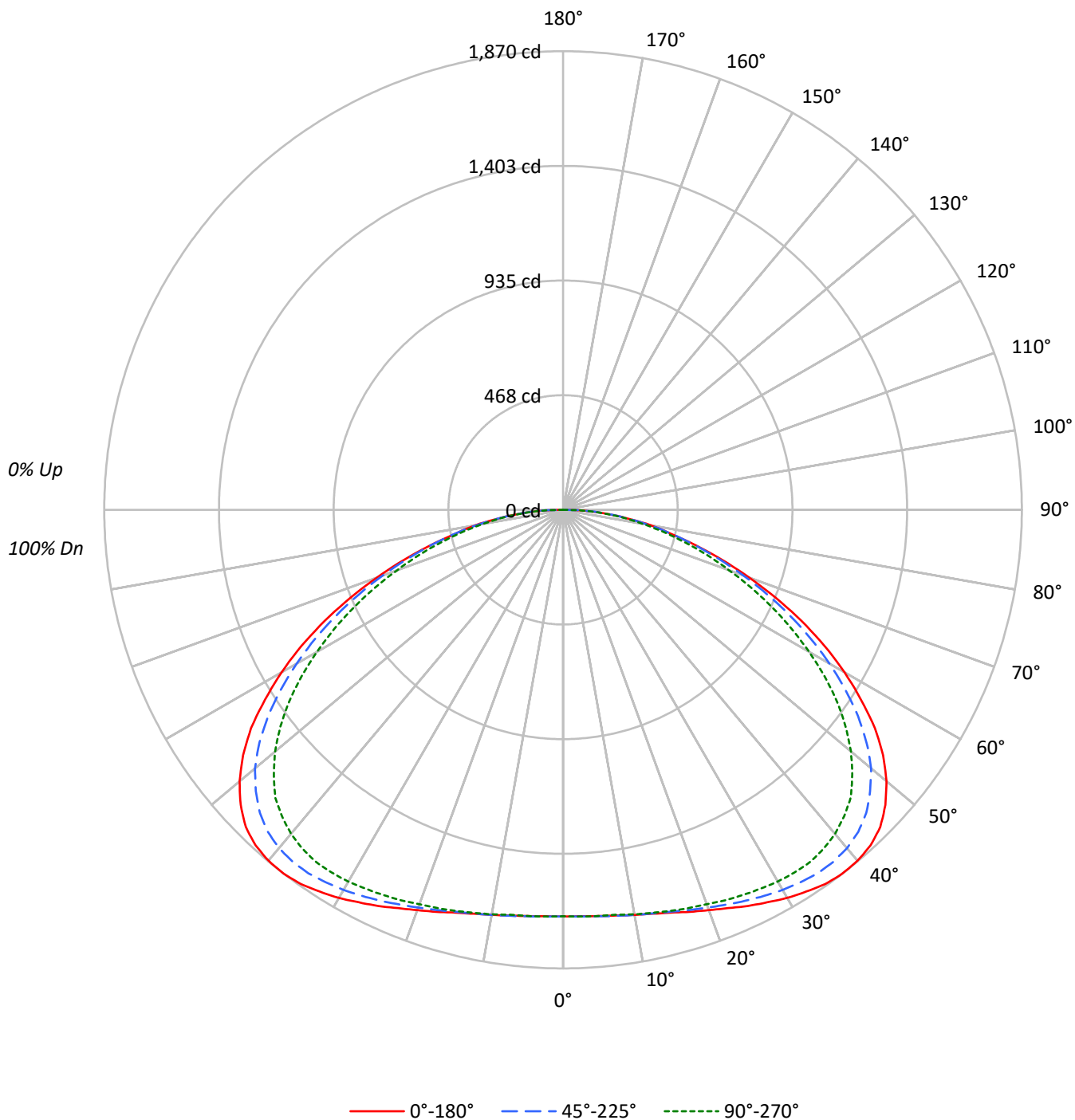
Lumens per Lamp: N/A
Luminaire Lumens: 7009.0 lumens
Efficiency: N/A
Efficacy: 130.8 lumens/watt
Spacing Criteria (0/90/45): 1.69 / 1.6 / 1.72
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 53.6
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°	2230	2230	2230
5°	2245	2247	2245
10°	2291	2291	2288
15°	2368	2363	2358
20°	2487	2471	2450
25°	2646	2611	2573
30°	2839	2780	2719
35°	3060	2971	2881
40°	3280	3162	3029
45°	3479	3326	3156
50°	3602	3431	3206
55°	3641	3444	3197
60°	3566	3375	3115
65°	3413	3249	2993
70°	3179	3073	2832
75°	2910	2891	2681
80°	2823	2765	2566
85°	2623	2736	2566

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 55°

Luminance: 3641 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.2	2.3
10°-20°	482.2	6.9
20°-30°	814.4	11.6
30°-40°	1132.8	16.2
40°-50°	1341.0	19.1
50°-60°	1301.0	18.6
60°-70°	1002.4	14.3
70°-80°	584.9	8.3
80°-90°	191.1	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°	1455.7	20.8
0°-40°	2588.5	36.9
0°-60°	5230.5	74.6
0°-90°	7009.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7009.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1658	1658	1658	1658	1658	
5°	1662	1664	1664	1664	1662	159
15°	1700	1700	1697	1693	1693	484
25°	1782	1775	1759	1741	1733	826
35°	1863	1847	1809	1771	1754	1167
45°	1829	1804	1748	1688	1659	1404
55°	1552	1526	1468	1400	1363	1378
65°	1072	1060	1021	968	940	1059
75°	560	573	556	530	516	600
85°	170	178	177	174	166	190
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1657.5	1657.5	1657.5	1657.5	1657.5
2.5°	1658.7	1659.9	1659.9	1659.9	1659.9
5°	1662.4	1663.6	1663.6	1663.6	1662.4
7.5°	1668.5	1668.5	1669.7	1668.5	1664.8
10°	1677.0	1677.0	1677.0	1675.8	1674.6
12.5°	1686.8	1688.0	1685.6	1684.4	1683.1
15°	1700.2	1700.2	1696.6	1692.9	1692.9
17.5°	1718.6	1716.1	1711.2	1705.1	1702.7
20°	1736.9	1734.5	1725.9	1716.1	1711.2
22.5°	1757.7	1752.8	1741.8	1728.4	1723.5
25°	1782.1	1774.8	1758.9	1740.6	1733.2
27.5°	1804.1	1794.4	1774.8	1754.0	1741.8
30°	1827.4	1815.1	1789.5	1762.6	1750.4
32.5°	1845.7	1833.5	1800.5	1769.9	1754.0
35°	1862.8	1846.9	1809.0	1771.1	1754.0
37.5°	1870.1	1853.0	1809.0	1765.0	1743.0
40°	1867.7	1849.4	1800.5	1750.4	1724.7
42.5°	1855.5	1833.5	1780.9	1724.7	1695.4
45°	1828.6	1804.1	1747.9	1688.0	1658.7
47.5°	1782.1	1757.7	1697.8	1634.2	1598.8
50°	1721.0	1695.4	1639.1	1568.2	1531.6
52.5°	1644.0	1618.3	1559.7	1487.6	1452.1
55°	1552.3	1525.5	1468.0	1399.6	1362.9
57.5°	1439.9	1420.3	1364.1	1299.3	1263.9
60°	1325.0	1305.4	1254.1	1193.0	1157.5
62.5°	1201.5	1185.6	1139.2	1081.8	1051.2
65°	1072.0	1059.7	1020.6	968.1	940.0
67.5°	940.0	935.1	899.6	854.4	830.0
70°	808.0	810.4	781.1	740.7	719.9
72.5°	679.6	688.2	664.9	631.9	617.3
75°	559.8	573.3	556.2	530.5	515.8
77.5°	448.6	466.9	452.3	432.7	420.5
80°	364.3	363.0	356.9	342.2	331.2
82.5°	261.6	266.5	262.8	254.2	248.1
85°	169.9	178.5	177.2	173.6	166.2
87.5°	84.3	94.1	95.3	92.9	89.2
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	17.2	18.9	17.5	19.2	19.5	16.5	18.2	16.9	18.6	18.9
	3H	19.0	20.6	19.4	20.9	21.3	18.3	19.9	18.7	20.2	20.6
	4H	19.7	21.2	20.1	21.5	21.9	19.0	20.5	19.4	20.8	21.2
	6H	20.2	21.6	20.6	21.9	22.3	19.5	20.9	19.9	21.3	21.7
	8H	20.4	21.7	20.8	22.1	22.5	19.7	21.1	20.2	21.5	21.9
	12H	20.5	21.8	21.0	22.2	22.6	19.9	21.2	20.3	21.6	22.0
4H	2H	17.8	19.3	18.2	19.6	20.0	17.2	18.7	17.6	19.1	19.5
	3H	19.8	21.1	20.2	21.5	21.9	19.3	20.5	19.7	20.9	21.3
	4H	20.6	21.8	21.1	22.2	22.6	20.1	21.2	20.5	21.6	22.1
	6H	21.3	22.3	21.8	22.8	23.2	20.8	21.8	21.2	22.2	22.7
	8H	21.6	22.5	22.0	23.0	23.4	21.0	22.0	21.5	22.4	22.9
	12H	21.8	22.6	22.3	23.1	23.6	21.2	22.1	21.7	22.6	23.0
8H	4H	21.0	21.9	21.4	22.3	22.8	20.5	21.4	20.9	21.8	22.3
	6H	21.8	22.6	22.3	23.1	23.5	21.3	22.1	21.8	22.6	23.0
	8H	22.1	22.8	22.6	23.3	23.8	21.6	22.4	22.2	22.9	23.3
	12H	22.4	23.0	22.9	23.5	24.1	22.0	22.6	22.5	23.1	23.6
12H	4H	21.0	21.9	21.5	22.3	22.8	20.5	21.4	21.0	21.8	22.3
	6H	21.9	22.6	22.4	23.0	23.6	21.4	22.1	21.9	22.6	23.1
	8H	22.3	22.9	22.8	23.4	23.9	21.8	22.4	22.3	22.9	23.5















(END OF REPORT)