

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: P1527155

Luminaire Tested: 24CGTX-72HE-F125-L850

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1527155
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-L850
Description: CGTX with F125 Lens Option

Light Source:
Ballast/Driver: -

Summary

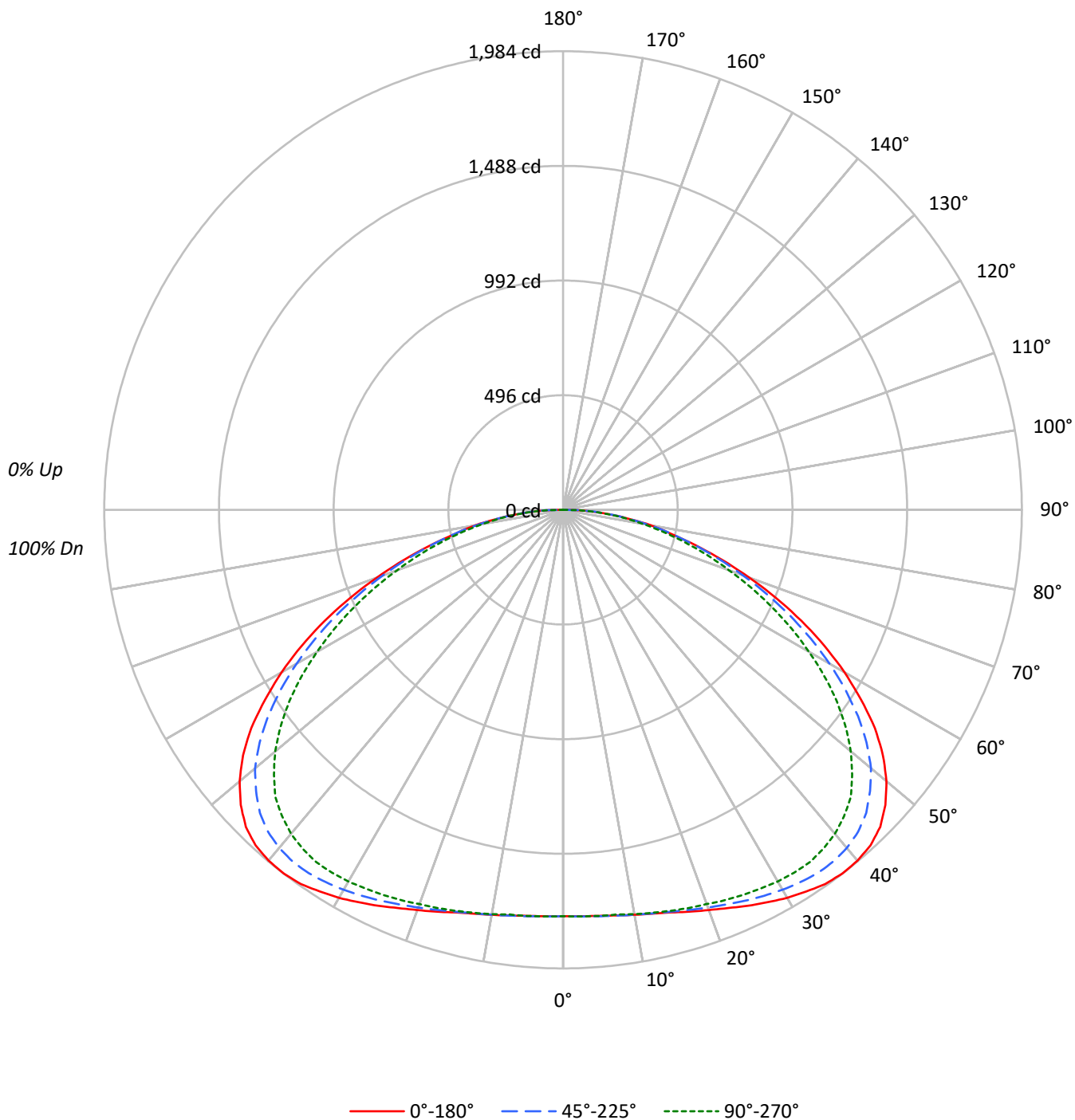
Lumens per Lamp: N/A
Luminaire Lumens: 7434.0 lumens
Efficiency: N/A
Efficacy: 138.7 lumens/watt
Spacing Criteria (0/90/45): 1.69 / 1.6 / 1.72
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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				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°	2365	2365	2365
5°	2381	2383	2381
10°	2430	2430	2427
15°	2512	2507	2501
20°	2638	2621	2599
25°	2806	2770	2729
30°	3011	2949	2884
35°	3245	3152	3056
40°	3479	3354	3213
45°	3690	3528	3348
50°	3821	3639	3400
55°	3862	3652	3391
60°	3782	3579	3304
65°	3620	3446	3174
70°	3371	3259	3004
75°	3087	3067	2844
80°	2993	2934	2722
85°	2782	2902	2722

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 55°

Luminance: 3862 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.8	2.3
10°-20°	511.4	6.9
20°-30°	863.7	11.6
30°-40°	1201.5	16.2
40°-50°	1422.3	19.1
50°-60°	1379.9	18.6
60°-70°	1063.2	14.3
70°-80°	620.4	8.3
80°-90°	202.7	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°	1544.0	20.8
0°-40°	2745.5	36.9
0°-60°	5547.7	74.6
0°-90°	7434.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7434.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1758	1758	1758	1758	1758	
5°	1763	1764	1764	1764	1763	169
15°	1803	1803	1800	1796	1796	513
25°	1890	1882	1866	1846	1838	876
35°	1976	1959	1919	1878	1860	1238
45°	1940	1914	1854	1790	1759	1489
55°	1646	1618	1557	1484	1446	1462
65°	1137	1124	1082	1027	997	1123
75°	594	608	590	563	547	636
85°	180	189	188	184	176	201
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1758.0	1758.0	1758.0	1758.0	1758.0
2.5°	1759.3	1760.6	1760.6	1760.6	1760.6
5°	1763.2	1764.4	1764.4	1764.4	1763.2
7.5°	1769.6	1769.6	1770.9	1769.6	1765.7
10°	1778.7	1778.7	1778.7	1777.4	1776.1
12.5°	1789.1	1790.4	1787.8	1786.5	1785.2
15°	1803.3	1803.3	1799.5	1795.6	1795.6
17.5°	1822.8	1820.2	1815.0	1808.5	1805.9
20°	1842.2	1839.6	1830.6	1820.2	1815.0
22.5°	1864.3	1859.1	1847.4	1833.2	1828.0
25°	1890.2	1882.4	1865.6	1846.1	1838.3
27.5°	1913.5	1903.2	1882.4	1860.4	1847.4
30°	1938.2	1925.2	1898.0	1869.5	1856.5
32.5°	1957.6	1944.7	1909.6	1877.2	1860.4
35°	1975.8	1958.9	1918.7	1878.5	1860.4
37.5°	1983.5	1965.4	1918.7	1872.1	1848.7
40°	1981.0	1961.5	1909.6	1856.5	1829.3
42.5°	1968.0	1944.7	1888.9	1829.3	1798.2
45°	1939.5	1913.5	1853.9	1790.4	1759.3
47.5°	1890.2	1864.3	1800.7	1733.3	1695.7
50°	1825.4	1798.2	1738.5	1663.3	1624.4
52.5°	1743.7	1716.5	1654.3	1577.8	1540.2
55°	1646.5	1618.0	1557.0	1484.4	1445.5
57.5°	1527.2	1506.5	1446.8	1378.1	1340.5
60°	1405.3	1384.6	1330.1	1265.3	1227.7
62.5°	1274.4	1257.5	1208.3	1147.3	1114.9
65°	1137.0	1124.0	1082.5	1026.8	997.0
67.5°	997.0	991.8	954.2	906.2	880.3
70°	856.9	859.5	828.4	785.6	763.6
72.5°	720.8	729.9	705.3	670.3	654.7
75°	593.8	608.0	589.9	562.7	547.1
77.5°	475.8	495.2	479.7	458.9	446.0
80°	386.3	385.0	378.6	363.0	351.3
82.5°	277.4	282.6	278.7	269.7	263.2
85°	180.2	189.3	188.0	184.1	176.3
87.5°	89.5	99.8	101.1	98.5	94.6
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	17.7	19.4	19.7	16.7	18.4	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	22.1	22.5	19.7	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	20.5	21.8	22.2
4H	2H	18.0	19.5	18.4	19.8	20.2	17.5	18.9	17.8	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	20.8	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	23.2
8H	4H	21.2	22.1	21.6	22.5	23.0	20.7	21.6	21.1	22.0	22.5
	6H	22.0	22.8	22.5	23.3	23.7	21.5	22.3	22.0	22.8	23.2
	8H	22.3	23.0	22.8	23.5	24.0	21.9	22.6	22.4	23.1	23.5
	12H	22.6	23.3	23.1	23.7	24.3	22.2	22.8	22.7	23.3	23.8
12H	4H	21.2	22.1	21.7	22.5	23.0	20.7	21.6	21.2	22.0	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	22.6	22.5	23.1	23.7















(END OF REPORT)