

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: P1527170

Luminaire Tested: 24CGTX-90HE-F125-L930

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1527170
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-90HE-F125-L930
Description: CGTX with F125 Lens Option

Light Source:
Ballast/Driver: -

Summary

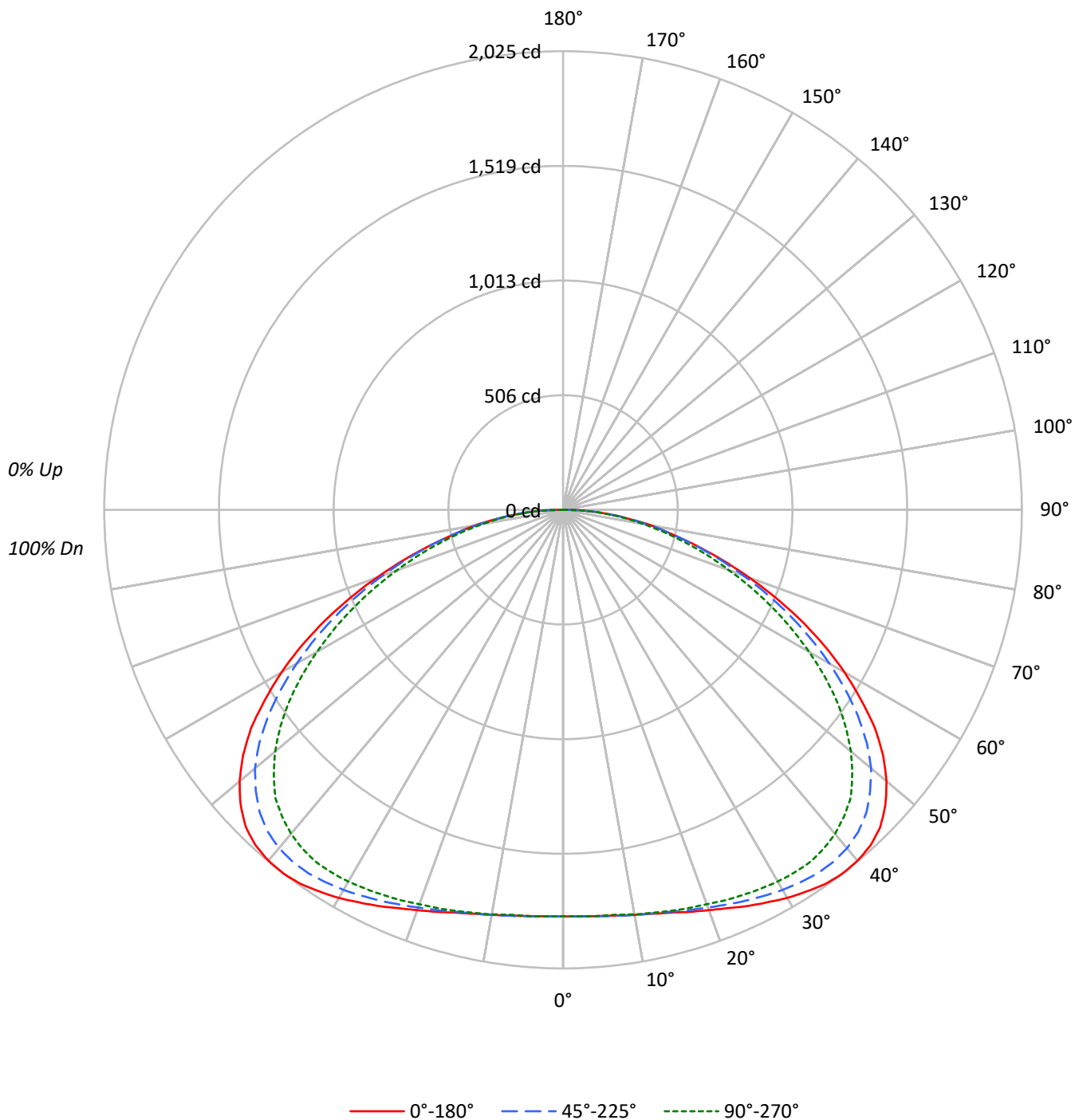
Lumens per Lamp: N/A
Luminaire Lumens: 7590.0 lumens
Efficiency: N/A
Efficacy: 108.0 lumens/watt
Spacing Criteria (0/90/45): 1.69 / 1.6 / 1.72
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 70.3
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°	2415	2415	2415
5°	2431	2433	2431
10°	2481	2481	2478
15°	2565	2559	2554
20°	2693	2676	2653
25°	2865	2828	2786
30°	3074	3011	2945
35°	3313	3218	3120
40°	3552	3424	3280
45°	3768	3602	3418
50°	3901	3715	3472
55°	3943	3729	3462
60°	3861	3655	3373
65°	3696	3519	3241
70°	3442	3327	3067
75°	3151	3131	2904
80°	3056	2995	2779
85°	2841	2963	2779

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 55°

Luminance: 3943 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.4	2.3
10°-20°	522.1	6.9
20°-30°	881.9	11.6
30°-40°	1226.7	16.2
40°-50°	1452.2	19.1
50°-60°	1408.9	18.6
60°-70°	1085.5	14.3
70°-80°	633.4	8.3
80°-90°	207.0	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°	1576.4	20.8
0°-40°	2803.1	36.9
0°-60°	5664.1	74.6
0°-90°	7590.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7590.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1795	1795	1795	1795	1795	
5°	1800	1802	1802	1802	1800	172
15°	1841	1841	1837	1833	1833	524
25°	1930	1922	1905	1885	1877	894
35°	2017	2000	1959	1918	1899	1264
45°	1980	1954	1893	1828	1796	1521
55°	1681	1652	1590	1516	1476	1492
65°	1161	1148	1105	1048	1018	1147
75°	606	621	602	574	559	649
85°	184	193	192	188	180	206
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1794.9	1794.9	1794.9	1794.9	1794.9
2.5°	1796.2	1797.5	1797.5	1797.5	1797.5
5°	1800.2	1801.5	1801.5	1801.5	1800.2
7.5°	1806.8	1806.8	1808.1	1806.8	1802.8
10°	1816.0	1816.0	1816.0	1814.7	1813.4
12.5°	1826.6	1827.9	1825.3	1824.0	1822.7
15°	1841.2	1841.2	1837.2	1833.2	1833.2
17.5°	1861.0	1858.4	1853.1	1846.5	1843.8
20°	1880.9	1878.2	1869.0	1858.4	1853.1
22.5°	1903.4	1898.1	1886.2	1871.6	1866.3
25°	1929.9	1921.9	1904.7	1884.9	1876.9
27.5°	1953.7	1943.1	1921.9	1899.4	1886.2
30°	1978.8	1965.6	1937.8	1908.7	1895.5
32.5°	1998.7	1985.5	1949.7	1916.6	1899.4
35°	2017.2	2000.0	1959.0	1918.0	1899.4
37.5°	2025.2	2006.6	1959.0	1911.3	1887.5
40°	2022.5	2002.7	1949.7	1895.5	1867.7
42.5°	2009.3	1985.5	1928.5	1867.7	1835.9
45°	1980.2	1953.7	1892.8	1827.9	1796.2
47.5°	1929.9	1903.4	1838.5	1769.7	1731.3
50°	1863.7	1835.9	1775.0	1698.2	1658.5
52.5°	1780.3	1752.5	1689.0	1610.9	1572.5
55°	1681.0	1651.9	1589.7	1515.6	1475.9
57.5°	1559.2	1538.1	1477.2	1407.0	1368.6
60°	1434.8	1413.6	1358.1	1291.9	1253.5
62.5°	1301.1	1283.9	1233.6	1171.4	1138.3
65°	1160.8	1147.6	1105.2	1048.3	1017.9
67.5°	1017.9	1012.6	974.2	925.2	898.8
70°	874.9	877.6	845.8	802.1	779.6
72.5°	735.9	745.2	720.1	684.3	668.4
75°	606.2	620.8	602.3	574.5	558.6
77.5°	485.8	505.6	489.7	468.6	455.3
80°	394.4	393.1	386.5	370.6	358.7
82.5°	283.3	288.6	284.6	275.3	268.7
85°	184.0	193.3	191.9	188.0	180.0
87.5°	91.3	101.9	103.2	100.6	96.6
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	17.5	19.2	17.8	19.5	19.8	16.8	18.5	17.1	18.8	19.1
	3H	19.3	20.9	19.6	21.2	21.5	18.6	20.2	19.0	20.5	20.8
	4H	19.9	21.4	20.3	21.8	22.2	19.3	20.8	19.7	21.1	21.5
	6H	20.5	21.9	20.9	22.2	22.6	19.8	21.2	20.2	21.6	22.0
	8H	20.7	22.0	21.1	22.4	22.8	20.0	21.4	20.4	21.7	22.1
	12H	20.8	22.1	21.2	22.5	22.9	20.2	21.5	20.6	21.8	22.3
4H	2H	18.1	19.5	18.4	19.9	20.3	17.5	19.0	17.9	19.4	19.7
	3H	20.1	21.4	20.5	21.8	22.2	19.5	20.8	19.9	21.2	21.6
	4H	20.9	22.1	21.3	22.5	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	21.8	22.7	23.1
	12H	22.1	22.9	22.5	23.4	23.8	21.5	22.4	22.0	22.8	23.3
8H	4H	21.2	22.2	21.7	22.6	23.1	20.7	21.7	21.2	22.1	22.6
	6H	22.1	22.8	22.5	23.3	23.8	21.6	22.4	22.1	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	24.4	22.2	22.9	22.7	23.4	23.9
12H	4H	21.3	22.1	21.8	22.6	23.1	20.8	21.6	21.3	22.1	22.6
	6H	22.1	22.9	22.7	23.3	23.8	21.7	22.4	22.2	22.8	23.4
	8H	22.5	23.2	23.0	23.7	24.2	22.1	22.7	22.6	23.2	23.8













(END OF REPORT)