

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: P1527172

Luminaire Tested: 24CGTX-90HE-F125-L940

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1527172
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-L940
Description: CGTX with F125 Lens Option

Light Source:
Ballast/Driver: -

Summary

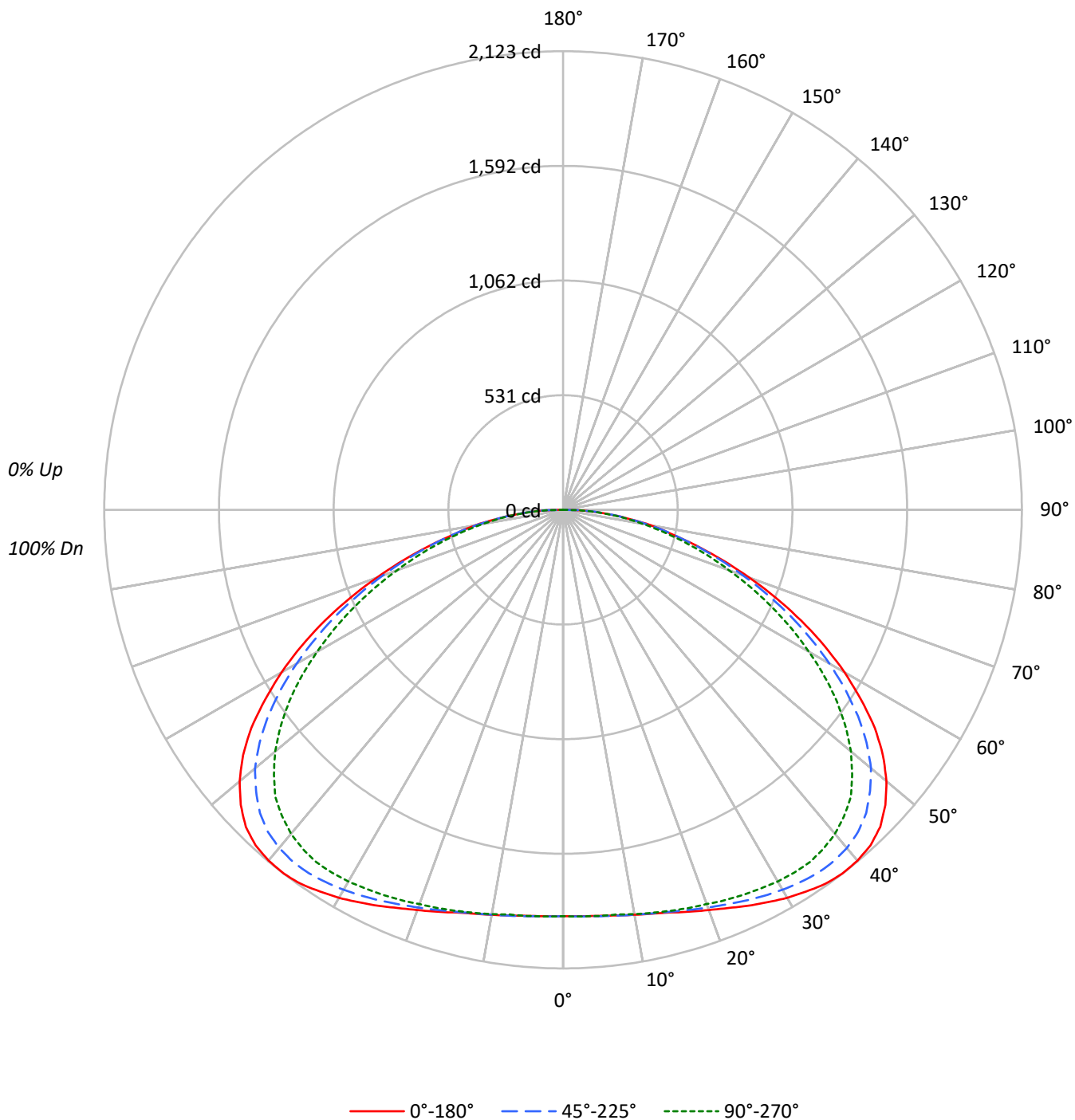
Lumens per Lamp: N/A
Luminaire Lumens: 7955.0 lumens
Efficiency: N/A
Efficacy: 113.2 lumens/watt
Spacing Criteria (0/90/45): 1.69 / 1.6 / 1.72
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	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°	2531	2531	2531
5°	2548	2550	2548
10°	2601	2601	2597
15°	2688	2682	2676
20°	2823	2805	2781
25°	3003	2964	2920
30°	3222	3155	3086
35°	3473	3372	3270
40°	3723	3589	3438
45°	3949	3775	3582
50°	4089	3894	3639
55°	4133	3908	3628
60°	4047	3830	3535
65°	3874	3688	3396
70°	3607	3487	3214
75°	3303	3281	3043
80°	3203	3139	2913
85°	2976	3106	2913

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 55°

Luminance: 4133 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.6	2.3
10°-20°	547.3	6.9
20°-30°	924.3	11.6
30°-40°	1285.7	16.2
40°-50°	1522.0	19.1
50°-60°	1476.6	18.6
60°-70°	1137.7	14.3
70°-80°	663.8	8.3
80°-90°	217.0	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°	1652.2	20.8
0°-40°	2937.9	36.9
0°-60°	5936.5	74.6
0°-90°	7955.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7955.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1881	1881	1881	1881	1881	
5°	1887	1888	1888	1888	1887	181
15°	1930	1930	1926	1921	1921	549
25°	2023	2014	1996	1976	1967	937
35°	2114	2096	2053	2010	1991	1324
45°	2075	2048	1984	1916	1883	1594
55°	1762	1731	1666	1588	1547	1564
65°	1217	1203	1158	1099	1067	1202
75°	635	651	631	602	585	681
85°	193	202	201	197	189	216
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1881.2	1881.2	1881.2	1881.2	1881.2
2.5°	1882.6	1883.9	1883.9	1883.9	1883.9
5°	1886.7	1888.1	1888.1	1888.1	1886.7
7.5°	1893.7	1893.7	1895.0	1893.7	1889.5
10°	1903.4	1903.4	1903.4	1902.0	1900.6
12.5°	1914.5	1915.9	1913.1	1911.7	1910.3
15°	1929.7	1929.7	1925.6	1921.4	1921.4
17.5°	1950.5	1947.8	1942.2	1935.3	1932.5
20°	1971.3	1968.6	1958.9	1947.8	1942.2
22.5°	1994.9	1989.4	1976.9	1961.6	1956.1
25°	2022.7	2014.3	1996.3	1975.5	1967.2
27.5°	2047.6	2036.5	2014.3	1990.8	1976.9
30°	2074.0	2060.1	2031.0	2000.5	1986.6
32.5°	2094.8	2080.9	2043.5	2008.8	1990.8
35°	2114.2	2096.2	2053.2	2010.2	1990.8
37.5°	2122.6	2103.1	2053.2	2003.3	1978.3
40°	2119.8	2099.0	2043.5	1986.6	1957.5
42.5°	2105.9	2080.9	2021.3	1957.5	1924.2
45°	2075.4	2047.6	1983.8	1915.9	1882.6
47.5°	2022.7	1994.9	1927.0	1854.8	1814.6
50°	1953.3	1924.2	1860.4	1779.9	1738.3
52.5°	1865.9	1836.8	1770.2	1688.3	1648.1
55°	1761.9	1731.3	1666.1	1588.5	1546.8
57.5°	1634.2	1612.0	1548.2	1474.7	1434.5
60°	1503.8	1481.6	1423.4	1354.0	1313.8
62.5°	1363.7	1345.7	1293.0	1227.8	1193.1
65°	1216.7	1202.8	1158.4	1098.7	1066.8
67.5°	1066.8	1061.3	1021.0	969.7	942.0
70°	917.0	919.8	886.5	840.7	817.1
72.5°	771.3	781.0	754.7	717.2	700.6
75°	635.4	650.6	631.2	602.1	585.4
77.5°	509.1	529.9	513.3	491.1	477.2
80°	413.4	412.0	405.1	388.4	376.0
82.5°	296.9	302.4	298.3	288.6	281.6
85°	192.8	202.5	201.2	197.0	188.7
87.5°	95.7	106.8	108.2	105.4	101.3
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	19.4	18.0	19.7	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	21.3	21.6
	6H	20.6	22.0	21.0	22.4	22.8	20.0	21.4	20.4	21.7	22.1
	8H	20.8	22.2	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	23.1	20.4	21.6	20.8	22.0	22.4
4H	2H	18.2	19.7	18.6	20.1	20.4	17.7	19.2	18.1	19.5	19.9
	3H	20.3	21.5	20.7	21.9	22.3	19.7	21.0	20.1	21.3	21.7
	4H	21.1	22.2	21.5	22.6	23.1	20.5	21.7	20.9	22.1	22.5
	6H	21.8	22.8	22.2	23.2	23.7	21.2	22.2	21.7	22.6	23.1
	8H	22.0	23.0	22.5	23.4	23.9	21.5	22.4	21.9	22.8	23.3
	12H	22.2	23.1	22.7	23.5	24.0	21.7	22.5	22.2	23.0	23.5
8H	4H	21.4	22.3	21.9	22.8	23.2	20.9	21.8	21.4	22.3	22.7
	6H	22.2	23.0	22.7	23.5	24.0	21.7	22.5	22.2	23.0	23.5
	8H	22.6	23.3	23.1	23.8	24.3	22.1	22.8	22.6	23.3	23.8
	12H	22.9	23.5	23.4	24.0	24.5	22.4	23.0	22.9	23.5	24.1
12H	4H	21.4	22.3	21.9	22.8	23.2	21.0	21.8	21.4	22.3	22.7
	6H	22.3	23.0	22.8	23.5	24.0	21.8	22.6	22.4	23.0	23.5
	8H	22.7	23.3	23.2	23.8	24.4	22.2	22.9	22.8	23.4	23.9











(END OF REPORT)