

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: P1527167

Luminaire Tested: 24CGTX-90HE-F125-L835

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1527167
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-L835
Description: CGTX with F125 Lens Option

Light Source:
Ballast/Driver: -

Summary

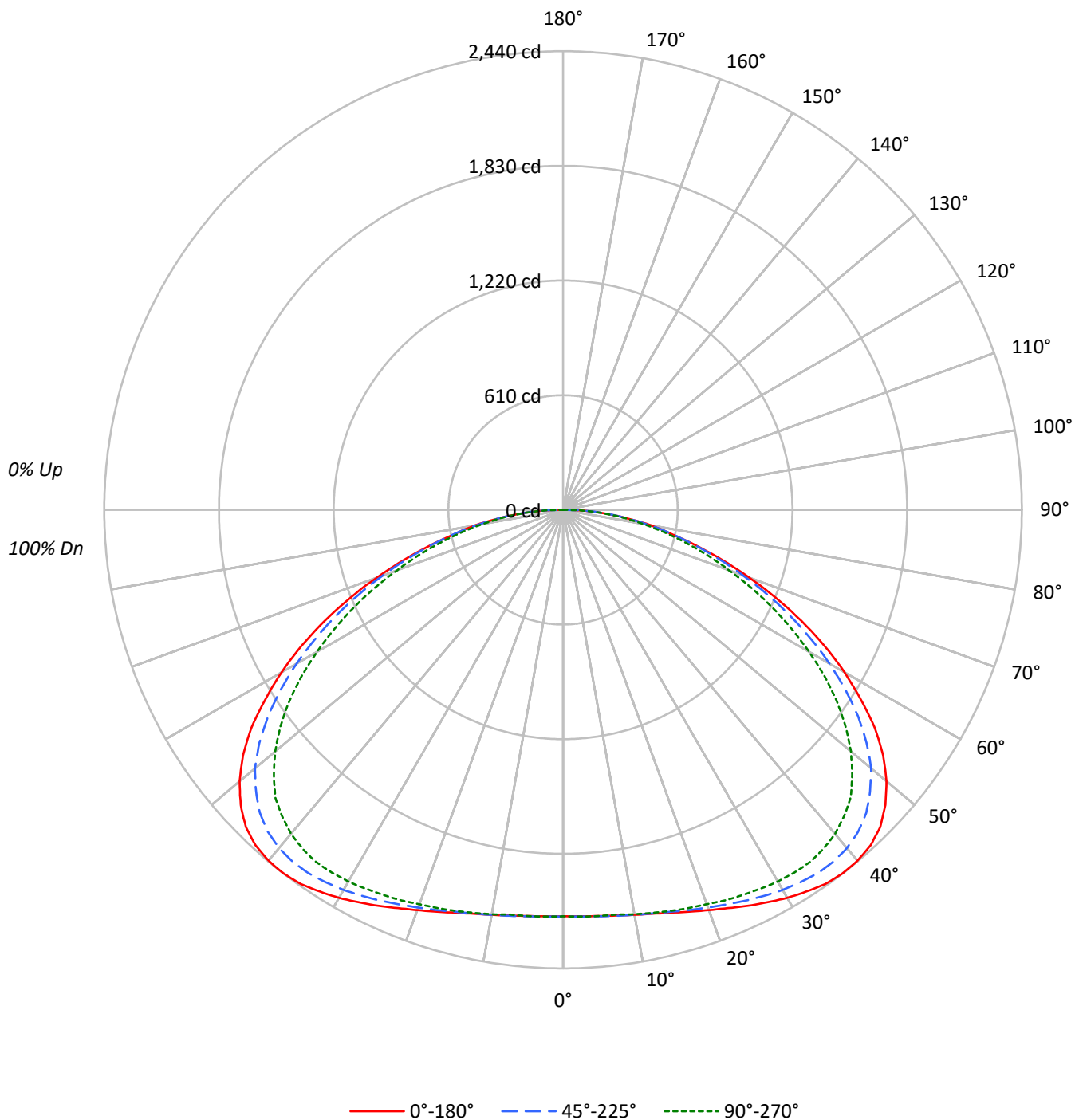
Lumens per Lamp: N/A
Luminaire Lumens: 9144.1 lumens
Efficiency: N/A
Efficacy: 130.1 lumens/watt
Spacing Criteria (0/90/45): 1.69 / 1.6 / 1.72
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	2909	2909	2909
5°	2929	2931	2929
10°	2989	2989	2985
15°	3090	3083	3076
20°	3245	3224	3197
25°	3452	3407	3357
30°	3704	3627	3548
35°	3992	3877	3759
40°	4280	4126	3952
45°	4539	4339	4118
50°	4700	4476	4182
55°	4751	4493	4171
60°	4652	4403	4064
65°	4452	4239	3904
70°	4147	4009	3695
75°	3797	3772	3499
80°	3682	3608	3349
85°	3423	3569	3348

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 55°

Luminance: 4751 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.6	2.3
10°-20°	629.1	6.9
20°-30°	1062.4	11.6
30°-40°	1477.9	16.2
40°-50°	1749.5	19.1
50°-60°	1697.3	18.6
60°-70°	1307.8	14.3
70°-80°	763.1	8.3
80°-90°	249.4	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°	1899.1	20.8
0°-40°	3377.1	36.9
0°-60°	6823.9	74.6
0°-90°	9144.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9144.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2162	2162	2162	2162	2162	
5°	2169	2170	2170	2170	2169	208
15°	2218	2218	2213	2209	2209	631
25°	2325	2316	2295	2271	2261	1077
35°	2430	2410	2360	2311	2288	1522
45°	2386	2354	2280	2202	2164	1832
55°	2025	1990	1915	1826	1778	1798
65°	1398	1383	1332	1263	1226	1381
75°	730	748	726	692	673	782
85°	222	233	231	226	217	248
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2162.4	2162.4	2162.4	2162.4	2162.4
2.5°	2164.0	2165.6	2165.6	2165.6	2165.6
5°	2168.8	2170.3	2170.3	2170.3	2168.8
7.5°	2176.7	2176.7	2178.3	2176.7	2171.9
10°	2187.9	2187.9	2187.9	2186.3	2184.7
12.5°	2200.6	2202.2	2199.1	2197.5	2195.9
15°	2218.2	2218.2	2213.4	2208.6	2208.6
17.5°	2242.1	2238.9	2232.5	2224.6	2221.4
20°	2266.0	2262.8	2251.7	2238.9	2232.5
22.5°	2293.1	2286.8	2272.4	2254.9	2248.5
25°	2325.0	2315.5	2294.7	2270.8	2261.2
27.5°	2353.7	2341.0	2315.5	2288.4	2272.4
30°	2384.0	2368.1	2334.6	2299.5	2283.6
32.5°	2408.0	2392.0	2349.0	2309.1	2288.4
35°	2430.3	2409.5	2360.1	2310.7	2288.4
37.5°	2439.8	2417.5	2360.1	2302.7	2274.0
40°	2436.7	2412.7	2349.0	2283.6	2250.1
42.5°	2420.7	2392.0	2323.4	2250.1	2211.8
45°	2385.6	2353.7	2280.4	2202.2	2164.0
47.5°	2325.0	2293.1	2215.0	2132.1	2085.8
50°	2245.3	2211.8	2138.5	2046.0	1998.1
52.5°	2144.8	2111.3	2034.8	1940.7	1894.5
55°	2025.2	1990.1	1915.2	1825.9	1778.1
57.5°	1878.5	1853.0	1779.7	1695.1	1648.9
60°	1728.6	1703.1	1636.1	1556.4	1510.2
62.5°	1567.6	1546.8	1486.2	1411.3	1371.4
65°	1398.5	1382.6	1331.6	1263.0	1226.3
67.5°	1226.3	1219.9	1173.7	1114.7	1082.8
70°	1054.1	1057.3	1019.0	966.4	939.3
72.5°	886.6	897.8	867.5	824.4	805.3
75°	730.4	747.9	725.6	692.1	673.0
77.5°	585.2	609.2	590.0	564.5	548.6
80°	475.2	473.6	465.6	446.5	432.2
82.5°	341.3	347.6	342.9	331.7	323.7
85°	221.7	232.8	231.2	226.4	216.9
87.5°	110.0	122.8	124.4	121.2	116.4
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	18.1	19.8	18.5	20.2	20.5	17.4	19.2	17.8	19.5	19.8
	3H	19.9	21.5	20.3	21.8	22.2	19.2	20.8	19.6	21.1	21.5
	4H	20.6	22.1	21.0	22.4	22.8	19.9	21.4	20.3	21.7	22.1
	6H	21.1	22.5	21.5	22.9	23.3	20.5	21.9	20.9	22.2	22.6
	8H	21.3	22.6	21.7	23.0	23.4	20.7	22.0	21.1	22.4	22.8
	12H	21.5	22.7	21.9	23.1	23.5	20.8	22.1	21.3	22.5	22.9
4H	2H	18.7	20.2	19.1	20.5	20.9	18.2	19.7	18.6	20.0	20.4
	3H	20.7	22.0	21.2	22.4	22.8	20.2	21.4	20.6	21.8	22.2
	4H	21.6	22.7	22.0	23.1	23.6	21.0	22.1	21.4	22.6	23.0
	6H	22.2	23.2	22.7	23.7	24.1	21.7	22.7	22.1	23.1	23.6
	8H	22.5	23.4	23.0	23.9	24.3	22.0	22.9	22.4	23.3	23.8
	12H	22.7	23.6	23.2	24.0	24.5	22.2	23.0	22.7	23.5	24.0
8H	4H	21.9	22.8	22.3	23.3	23.7	21.4	22.3	21.8	22.8	23.2
	6H	22.7	23.5	23.2	24.0	24.4	22.2	23.0	22.7	23.5	24.0
	8H	23.0	23.8	23.5	24.3	24.7	22.6	23.3	23.1	23.8	24.3
	12H	23.3	24.0	23.8	24.5	25.0	22.9	23.5	23.4	24.0	24.6
12H	4H	21.9	22.8	22.4	23.2	23.7	21.4	22.3	21.9	22.8	23.2
	6H	22.8	23.5	23.3	24.0	24.5	22.3	23.0	22.8	23.5	24.0
	8H	23.2	23.8	23.7	24.3	24.9	22.7	23.4	23.2	23.9	24.4















(END OF REPORT)