

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: P1527168

Luminaire Tested: 24CGTX-90HE-F125-L840

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1527168
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-L840
Description: CGTX with F125 Lens Option

Light Source:
Ballast/Driver: -

Summary

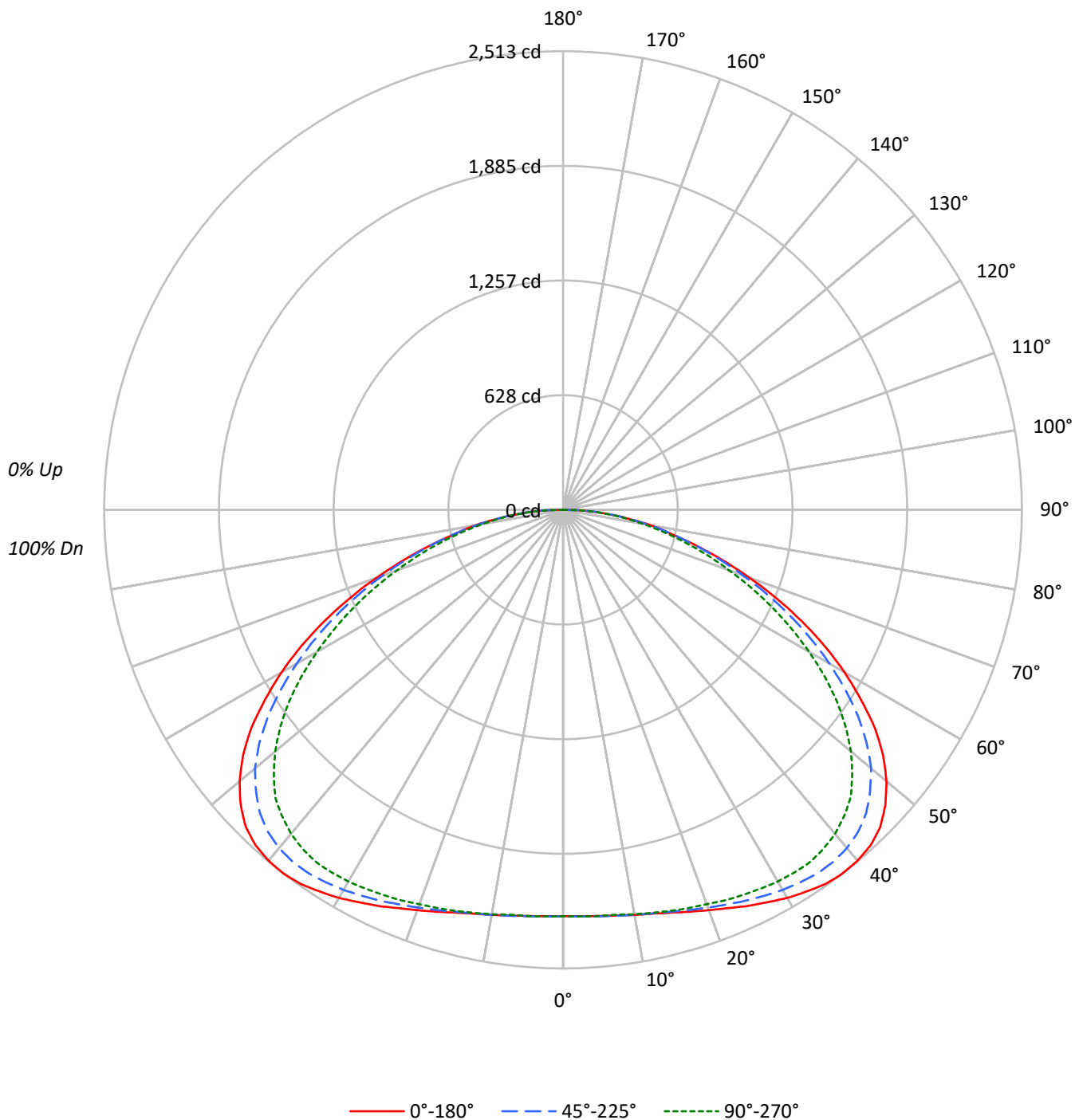
Lumens per Lamp: N/A
Luminaire Lumens: 9418.0 lumens
Efficiency: N/A
Efficacy: 134.0 lumens/watt
Spacing Criteria (0/90/45): 1.69 / 1.6 / 1.72
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	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°	2997	2997	2997
5°	3017	3019	3017
10°	3079	3079	3074
15°	3182	3176	3169
20°	3342	3321	3292
25°	3555	3509	3458
30°	3815	3736	3654
35°	4111	3993	3871
40°	4408	4249	4070
45°	4675	4469	4241
50°	4841	4610	4308
55°	4893	4627	4296
60°	4791	4535	4186
65°	4586	4366	4021
70°	4271	4129	3806
75°	3910	3885	3603
80°	3792	3716	3449
85°	3524	3677	3449

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 55°

Luminance: 4893 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.9	2.3
10°-20°	647.9	6.9
20°-30°	1094.3	11.6
30°-40°	1522.2	16.2
40°-50°	1801.9	19.1
50°-60°	1748.2	18.6
60°-70°	1346.9	14.3
70°-80°	785.9	8.3
80°-90°	256.9	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°	1956.0	20.8
0°-40°	3478.2	36.9
0°-60°	7028.3	74.6
0°-90°	9418.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9418.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2227	2227	2227	2227	2227	
5°	2234	2235	2235	2235	2234	214
15°	2285	2285	2280	2275	2275	650
25°	2395	2385	2364	2339	2329	1110
35°	2503	2482	2431	2380	2357	1568
45°	2457	2424	2349	2268	2229	1887
55°	2086	2050	1973	1881	1831	1852
65°	1440	1424	1371	1301	1263	1423
75°	752	770	747	713	693	806
85°	228	240	238	233	223	255
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2227.1	2227.1	2227.1	2227.1	2227.1
2.5°	2228.8	2230.4	2230.4	2230.4	2230.4
5°	2233.7	2235.3	2235.3	2235.3	2233.7
7.5°	2241.9	2241.9	2243.6	2241.9	2237.0
10°	2253.4	2253.4	2253.4	2251.8	2250.1
12.5°	2266.6	2268.2	2264.9	2263.3	2261.6
15°	2284.6	2284.6	2279.7	2274.8	2274.8
17.5°	2309.3	2306.0	2299.4	2291.2	2287.9
20°	2333.9	2330.6	2319.1	2306.0	2299.4
22.5°	2361.8	2355.2	2340.5	2322.4	2315.8
25°	2394.7	2384.8	2363.5	2338.8	2329.0
27.5°	2424.2	2411.1	2384.8	2356.9	2340.5
30°	2455.4	2439.0	2404.5	2368.4	2352.0
32.5°	2480.1	2463.6	2419.3	2378.2	2356.9
35°	2503.1	2481.7	2430.8	2379.9	2356.9
37.5°	2512.9	2489.9	2430.8	2371.7	2342.1
40°	2509.6	2485.0	2419.3	2352.0	2317.5
42.5°	2493.2	2463.6	2393.0	2317.5	2278.0
45°	2457.1	2424.2	2348.7	2268.2	2228.8
47.5°	2394.7	2361.8	2281.3	2195.9	2148.3
50°	2312.5	2278.0	2202.5	2107.2	2058.0
52.5°	2209.1	2174.6	2095.7	1998.8	1951.2
55°	2085.9	2049.8	1972.6	1880.6	1831.3
57.5°	1934.8	1908.5	1833.0	1745.9	1698.3
60°	1780.4	1754.1	1685.1	1603.0	1555.4
62.5°	1614.5	1593.2	1530.7	1453.6	1412.5
65°	1440.4	1424.0	1371.4	1300.8	1263.0
67.5°	1263.0	1256.5	1208.8	1148.1	1115.2
70°	1085.6	1088.9	1049.5	995.3	967.4
72.5°	913.2	924.7	893.5	849.1	829.4
75°	752.2	770.3	747.3	712.8	693.1
77.5°	602.8	627.4	607.7	581.4	565.0
80°	489.4	487.8	479.6	459.9	445.1
82.5°	351.5	358.0	353.1	341.6	333.4
85°	228.3	239.8	238.2	233.2	223.4
87.5°	113.3	126.5	128.1	124.8	119.9
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	18.2	19.9	18.6	20.3	20.6	17.5	19.3	17.9	19.6	19.9
	3H	20.0	21.6	20.4	21.9	22.3	19.3	20.9	19.7	21.2	21.6
	4H	20.7	22.2	21.1	22.5	22.9	20.0	21.5	20.4	21.9	22.2
	6H	21.2	22.6	21.6	23.0	23.4	20.6	22.0	21.0	22.3	22.7
	8H	21.4	22.7	21.8	23.1	23.5	20.8	22.1	21.2	22.5	22.9
	12H	21.6	22.8	22.0	23.2	23.6	20.9	22.2	21.4	22.6	23.0
4H	2H	18.8	20.3	19.2	20.6	21.0	18.3	19.8	18.7	20.1	20.5
	3H	20.9	22.1	21.3	22.5	22.9	20.3	21.5	20.7	21.9	22.3
	4H	21.7	22.8	22.1	23.2	23.7	21.1	22.2	21.5	22.7	23.1
	6H	22.3	23.3	22.8	23.8	24.2	21.8	22.8	22.2	23.2	23.7
	8H	22.6	23.5	23.1	24.0	24.4	22.1	23.0	22.5	23.4	23.9
	12H	22.8	23.7	23.3	24.1	24.6	22.3	23.1	22.8	23.6	24.1
8H	4H	22.0	22.9	22.4	23.4	23.8	21.5	22.4	21.9	22.9	23.3
	6H	22.8	23.6	23.3	24.1	24.5	22.3	23.1	22.8	23.6	24.1
	8H	23.1	23.9	23.7	24.4	24.8	22.7	23.4	23.2	23.9	24.4
	12H	23.4	24.1	24.0	24.6	25.1	23.0	23.6	23.5	24.1	24.7
12H	4H	22.0	22.9	22.5	23.4	23.8	21.5	22.4	22.0	22.9	23.3
	6H	22.9	23.6	23.4	24.1	24.6	22.4	23.1	22.9	23.6	24.1
	8H	23.3	23.9	23.8	24.4	25.0	22.8	23.5	23.3	24.0	24.5













(END OF REPORT)