

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: P1526850

Luminaire Tested: 24CGTX-100HE-A125-L850

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1526850
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2507-496-4)
Test Lab: INNOVATION CENTER
Issue Date: 8/24/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 24CGTX-100HE-A125-L850
Description: CGTX with A125 Lens Option

Light Source:
Ballast/Driver: -

Summary

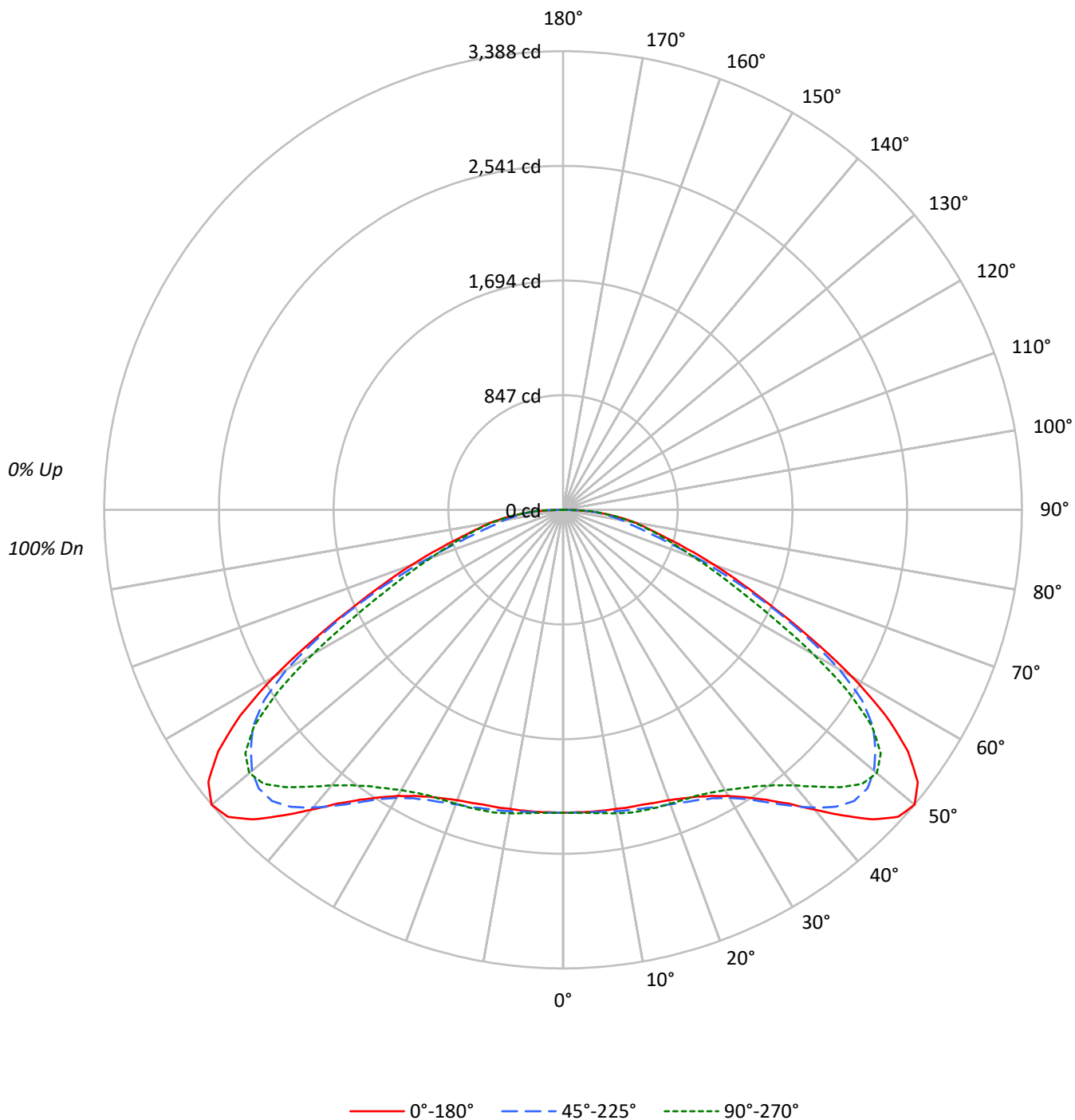
Lumens per Lamp: N/A
Luminaire Lumens: 11169.4 lumens
Efficiency: N/A
Efficacy: 135.2 lumens/watt
Spacing Criteria (0/90/45): 2.04 / 1.82 / 1.97
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 82.6
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			
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	80	74	94	86	79	73	82	76	71		79	74	70		76	72	68	66
3	87	76	67	60	85	74	66	59	71	64	58		68	62	57		66	60	56	54
4	79	66	56	49	77	65	56	49	62	54	48		60	53	47		57	51	47	44
5	72	58	48	41	70	57	48	41	55	46	40		53	45	40		51	44	39	37
6	66	51	42	35	64	50	41	35	49	40	34		47	39	34		45	39	34	31
7	61	46	36	30	59	45	36	30	43	35	29		42	35	29		41	34	29	27
8	56	41	32	26	54	41	32	26	39	31	26		38	31	25		37	30	25	23
9	52	38	29	23	50	37	29	23	36	28	23		35	28	22		34	27	22	20
10	48	34	26	20	47	34	26	20	33	25	20		32	25	20		31	24	20	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3011	3011	3011
5°	3025	3030	3035
10°	3065	3089	3110
15°	3141	3181	3203
20°	3267	3315	3309
25°	3471	3511	3460
30°	3792	3819	3714
35°	4295	4333	4095
40°	5078	5044	4667
45°	6153	5785	5512
50°	7092	6275	6331
55°	7290	6555	6533
60°	6625	6333	5751
65°	5480	5381	4691
70°	4679	4215	4078
75°	4052	3358	3860
80°	4196	3402	4061
85°	4239	4089	4508

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 7296 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.7	1.9
10°-20°	647.6	5.8
20°-30°	1093.9	9.8
30°-40°	1646.8	14.7
40°-50°	2341.6	21.0
50°-60°	2513.0	22.5
60°-70°	1637.7	14.7
70°-80°	787.5	7.1
80°-90°	286.6	2.6
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°	1956.3	17.5
0°-40°	3603.0	32.3
0°-60°	8457.7	75.7
0°-90°	11169.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11169.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2238	2238	2238	2238	2238	
5°	2240	2241	2243	2251	2247	214
15°	2255	2266	2284	2298	2299	641
25°	2338	2359	2365	2344	2330	1089
35°	2615	2665	2638	2549	2493	1660
45°	3234	3154	3040	2961	2897	2482
55°	3108	3028	2794	2713	2785	2719
65°	1721	1708	1690	1508	1474	1742
75°	779	737	646	735	743	856
85°	275	257	265	273	292	299
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2237.5	2237.5	2237.5	2237.5	2237.5
2.5°	2235.6	2237.5	2239.5	2241.4	2241.4
5°	2239.5	2241.4	2243.3	2251.1	2247.2
7.5°	2241.4	2243.3	2249.1	2260.7	2260.7
10°	2243.3	2249.1	2260.7	2272.3	2276.2
12.5°	2251.1	2256.9	2272.3	2287.8	2291.7
15°	2254.9	2266.5	2283.9	2297.5	2299.4
17.5°	2268.5	2280.1	2299.4	2305.2	2305.2
20°	2282.0	2297.5	2314.9	2314.9	2311.0
22.5°	2307.1	2324.6	2338.1	2326.5	2318.8
25°	2338.1	2359.4	2365.2	2343.9	2330.4
27.5°	2382.6	2409.6	2401.9	2372.9	2355.5
30°	2440.6	2475.4	2458.0	2415.4	2390.3
32.5°	2517.9	2560.5	2531.5	2477.3	2438.7
35°	2614.6	2664.9	2637.8	2548.9	2492.8
37.5°	2734.5	2786.8	2753.9	2639.8	2564.4
40°	2891.2	2918.3	2871.8	2748.1	2657.2
42.5°	3061.4	3047.8	2976.3	2862.2	2773.2
45°	3233.5	3154.2	3040.1	2960.8	2897.0
47.5°	3357.3	3210.3	3047.8	3007.2	2995.6
50°	3388.2	3198.7	2997.6	2982.1	3024.6
52.5°	3301.2	3136.8	2906.7	2879.6	2956.9
55°	3107.8	3028.5	2794.5	2713.3	2784.8
57.5°	2823.5	2817.7	2616.6	2471.5	2490.9
60°	2461.9	2485.1	2353.6	2148.6	2137.0
62.5°	2071.2	2084.8	2026.7	1814.0	1773.4
65°	1721.2	1707.6	1690.2	1508.4	1473.6
67.5°	1433.0	1392.4	1365.3	1255.1	1237.7
70°	1189.4	1125.5	1071.4	1054.0	1036.6
72.5°	963.1	916.7	829.6	878.0	876.1
75°	779.4	736.8	645.9	734.9	742.6
77.5°	638.2	609.2	522.2	603.4	628.5
80°	541.5	481.5	439.0	491.2	524.1
82.5°	413.9	367.4	357.8	379.0	410.0
85°	274.6	257.2	264.9	272.7	292.0
87.5°	139.2	148.9	160.5	174.1	183.7
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	20.2	22.0	20.6	22.3	22.6	19.3	21.1	19.7	21.4	21.7
	3H	21.3	22.9	21.7	23.3	23.6	20.4	22.1	20.8	22.4	22.7
	4H	21.7	23.2	22.1	23.6	24.0	20.9	22.4	21.3	22.8	23.2
	6H	22.1	23.5	22.5	23.9	24.2	21.4	22.8	21.8	23.1	23.5
	8H	22.2	23.6	22.7	24.0	24.4	21.5	22.9	22.0	23.3	23.7
	12H	22.4	23.7	22.8	24.1	24.5	21.7	23.0	22.2	23.4	23.8
4H	2H	20.6	22.2	21.0	22.5	22.9	19.9	21.4	20.3	21.7	22.1
	3H	21.9	23.2	22.3	23.6	24.0	21.2	22.5	21.6	22.9	23.3
	4H	22.4	23.6	22.8	24.0	24.4	21.8	22.9	22.2	23.3	23.8
	6H	22.9	23.9	23.4	24.4	24.8	22.4	23.4	22.8	23.8	24.3
	8H	23.1	24.1	23.6	24.5	25.0	22.6	23.6	23.1	24.0	24.5
	12H	23.3	24.2	23.8	24.7	25.1	22.9	23.7	23.3	24.2	24.7
8H	4H	22.6	23.5	23.0	24.0	24.4	22.0	22.9	22.4	23.4	23.8
	6H	23.2	24.0	23.7	24.5	24.9	22.7	23.5	23.2	24.0	24.4
	8H	23.5	24.2	24.0	24.7	25.2	23.0	23.8	23.5	24.3	24.7
	12H	23.8	24.4	24.3	24.9	25.5	23.4	24.0	23.9	24.5	25.1
12H	4H	22.6	23.5	23.1	23.9	24.4	22.0	22.9	22.5	23.4	23.8
	6H	23.2	24.0	23.8	24.4	25.0	22.8	23.5	23.3	23.9	24.5
	8H	23.6	24.2	24.1	24.7	25.3	23.2	23.8	23.7	24.3	24.9













(END OF REPORT)