

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: P1526848

Luminaire Tested: 24CGTX-100HE-A125-L835

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1526848
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-L835
Description: CGTX with A125 Lens Option

Light Source:
Ballast/Driver: -

Summary

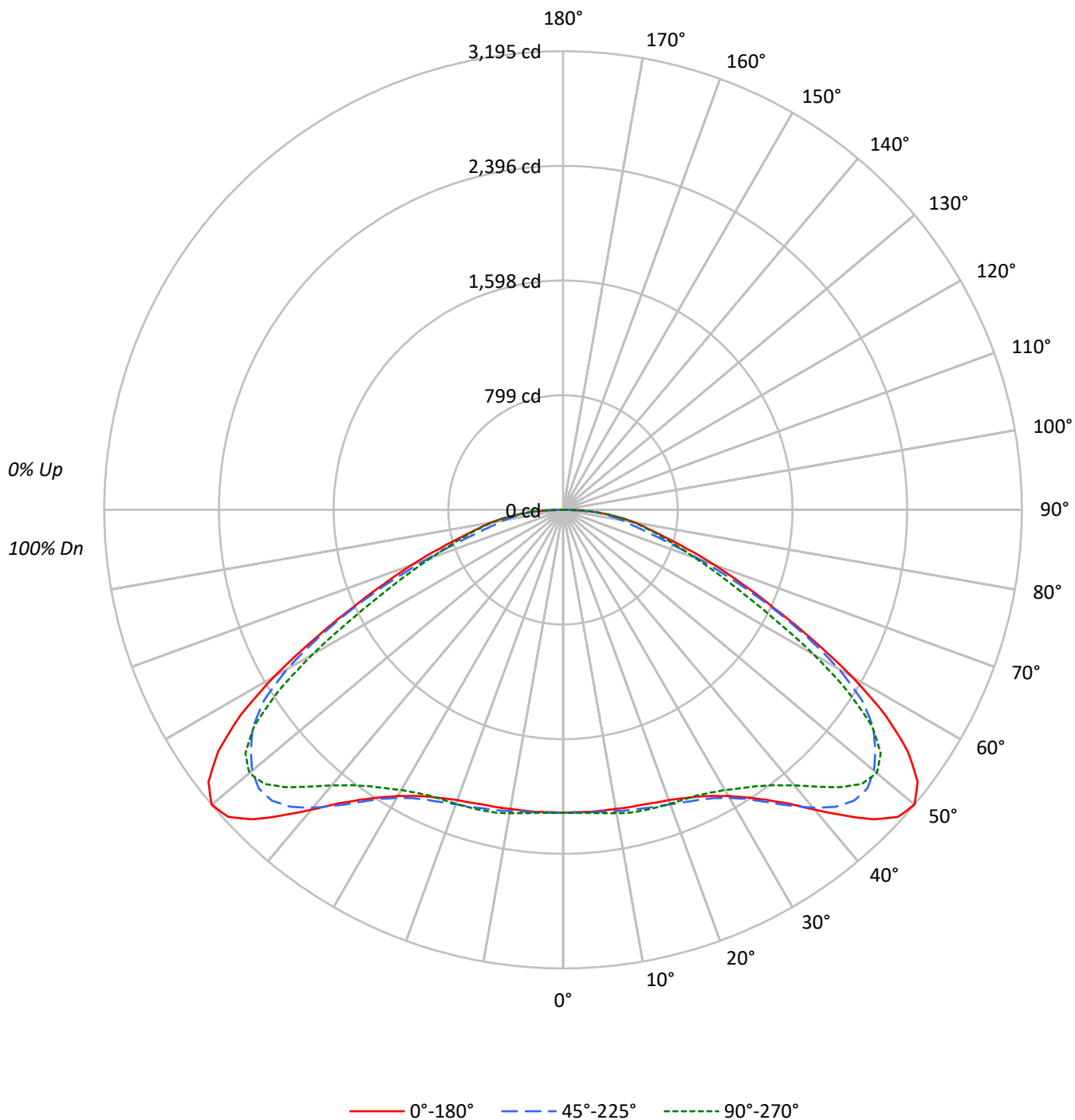
Lumens per Lamp: N/A
Luminaire Lumens: 10531.1 lumens
Efficiency: N/A
Efficacy: 127.5 lumens/watt
Spacing Criteria (0/90/45): 2.04 / 1.82 / 1.97
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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°	2839	2839	2839
5°	2852	2857	2862
10°	2890	2912	2932
15°	2962	3000	3020
20°	3081	3125	3120
25°	3273	3311	3262
30°	3575	3601	3501
35°	4049	4085	3861
40°	4788	4756	4400
45°	5801	5454	5197
50°	6687	5916	5969
55°	6874	6181	6159
60°	6246	5972	5422
65°	5167	5074	4423
70°	4412	3974	3845
75°	3820	3166	3640
80°	3956	3207	3828
85°	3997	3856	4250

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 6879 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.5	1.9
10°-20°	610.6	5.8
20°-30°	1031.4	9.8
30°-40°	1552.6	14.7
40°-50°	2207.8	21.0
50°-60°	2369.4	22.5
60°-70°	1544.1	14.7
70°-80°	742.5	7.1
80°-90°	270.2	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°	1844.5	17.5
0°-40°	3397.1	32.3
0°-60°	7974.4	75.7
0°-90°	10531.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10531.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2110	2110	2110	2110	2110	
5°	2112	2113	2115	2122	2119	202
15°	2126	2137	2153	2166	2168	604
25°	2204	2224	2230	2210	2197	1026
35°	2465	2513	2487	2403	2350	1565
45°	3049	2974	2866	2792	2731	2340
55°	2930	2855	2635	2558	2626	2563
65°	1623	1610	1594	1422	1389	1642
75°	735	695	609	693	700	807
85°	259	242	250	257	275	282
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2109.7	2109.7	2109.7	2109.7	2109.7
2.5°	2107.8	2109.7	2111.5	2113.3	2113.3
5°	2111.5	2113.3	2115.1	2122.4	2118.8
7.5°	2113.3	2115.1	2120.6	2131.6	2131.6
10°	2115.1	2120.6	2131.6	2142.5	2146.1
12.5°	2122.4	2127.9	2142.5	2157.1	2160.7
15°	2126.1	2137.0	2153.4	2166.2	2168.0
17.5°	2138.8	2149.8	2168.0	2173.5	2173.5
20°	2151.6	2166.2	2182.6	2182.6	2179.0
22.5°	2175.3	2191.7	2204.5	2193.5	2186.3
25°	2204.5	2224.5	2230.0	2210.0	2197.2
27.5°	2246.4	2272.0	2264.7	2237.3	2220.9
30°	2301.1	2333.9	2317.5	2277.4	2253.7
32.5°	2374.1	2414.2	2386.8	2335.8	2299.3
35°	2465.2	2512.6	2487.1	2403.2	2350.4
37.5°	2578.3	2627.5	2596.5	2488.9	2417.8
40°	2726.0	2751.5	2707.7	2591.0	2505.3
42.5°	2886.4	2873.7	2806.2	2698.6	2614.8
45°	3048.7	2974.0	2866.4	2791.6	2731.4
47.5°	3165.4	3026.8	2873.7	2835.4	2824.4
50°	3194.6	3015.9	2826.3	2811.7	2851.8
52.5°	3112.5	2957.5	2740.6	2715.0	2788.0
55°	2930.2	2855.4	2634.8	2558.2	2625.7
57.5°	2662.2	2656.7	2467.1	2330.3	2348.5
60°	2321.2	2343.1	2219.1	2025.8	2014.9
62.5°	1952.9	1965.6	1910.9	1710.3	1672.1
65°	1622.8	1610.1	1593.6	1422.2	1389.4
67.5°	1351.1	1312.8	1287.3	1183.4	1167.0
70°	1121.4	1061.2	1010.2	993.8	977.3
72.5°	908.1	864.3	782.2	827.8	826.0
75°	734.8	694.7	609.0	692.9	700.2
77.5°	601.7	574.4	492.3	568.9	592.6
80°	510.6	454.0	413.9	463.1	494.1
82.5°	390.2	346.4	337.3	357.4	386.6
85°	258.9	242.5	249.8	257.1	275.3
87.5°	131.3	140.4	151.3	164.1	173.2
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	20.0	21.8	20.4	22.1	22.4	19.1	20.9	19.5	21.2	21.5
	3H	21.1	22.7	21.5	23.1	23.4	20.2	21.9	20.6	22.2	22.5
	4H	21.5	23.0	21.9	23.4	23.8	20.7	22.2	21.1	22.6	23.0
	6H	21.9	23.3	22.3	23.7	24.0	21.1	22.6	21.6	22.9	23.3
	8H	22.0	23.4	22.5	23.8	24.2	21.3	22.7	21.8	23.1	23.5
	12H	22.2	23.5	22.6	23.8	24.3	21.5	22.8	21.9	23.2	23.6
4H	2H	20.4	22.0	20.8	22.3	22.7	19.7	21.2	20.1	21.5	21.9
	3H	21.7	23.0	22.1	23.4	23.8	21.0	22.3	21.4	22.7	23.1
	4H	22.2	23.4	22.6	23.8	24.2	21.6	22.7	22.0	23.1	23.6
	6H	22.7	23.7	23.2	24.2	24.6	22.2	23.2	22.6	23.6	24.1
	8H	22.9	23.9	23.4	24.3	24.8	22.4	23.4	22.9	23.8	24.3
	12H	23.1	24.0	23.6	24.5	24.9	22.7	23.5	23.1	24.0	24.5
8H	4H	22.4	23.3	22.8	23.8	24.2	21.8	22.7	22.2	23.2	23.6
	6H	23.0	23.8	23.5	24.3	24.7	22.5	23.3	23.0	23.8	24.2
	8H	23.3	24.0	23.8	24.5	25.0	22.8	23.6	23.3	24.1	24.5
	12H	23.6	24.2	24.1	24.7	25.2	23.2	23.8	23.7	24.3	24.9
12H	4H	22.4	23.3	22.9	23.7	24.2	21.8	22.7	22.3	23.2	23.6
	6H	23.0	23.8	23.6	24.2	24.8	22.6	23.3	23.1	23.7	24.3
	8H	23.4	24.0	23.9	24.5	25.1	23.0	23.6	23.5	24.1	24.6















(END OF REPORT)