

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: P1527065

Luminaire Tested: 24CGTX-100HE-F125-L835

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1527065
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-100HE-F125-L835
Description: CGTX with F125 Lens Option

Light Source:
Ballast/Driver: -

Summary

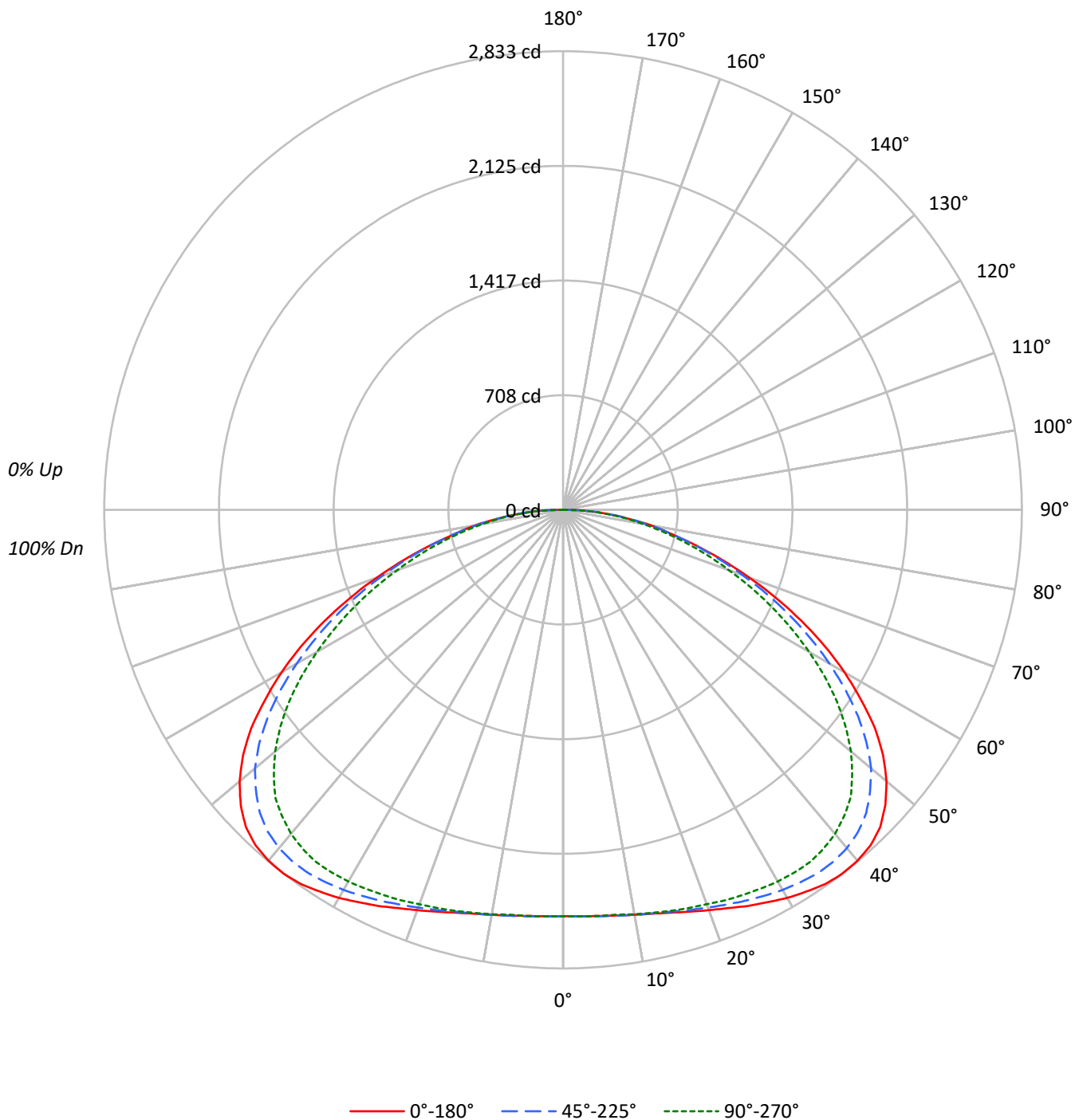
Lumens per Lamp: N/A
Luminaire Lumens: 10617.1 lumens
Efficiency: N/A
Efficacy: 128.5 lumens/watt
Spacing Criteria (0/90/45): 1.69 / 1.6 / 1.72
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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				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	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°	3378	3378	3378
5°	3401	3404	3401
10°	3471	3471	3466
15°	3588	3580	3572
20°	3767	3743	3712
25°	4008	3956	3898
30°	4301	4211	4119
35°	4635	4501	4364
40°	4969	4790	4589
45°	5271	5038	4781
50°	5457	5197	4856
55°	5516	5216	4843
60°	5401	5112	4718
65°	5170	4922	4533
70°	4815	4654	4290
75°	4408	4380	4062
80°	4276	4190	3888
85°	3974	4145	3887

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 55°

Luminance: 5516 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.1	2.3
10°-20°	730.4	6.9
20°-30°	1233.6	11.6
30°-40°	1716.0	16.2
40°-50°	2031.3	19.1
50°-60°	1970.8	18.6
60°-70°	1518.4	14.3
70°-80°	886.0	8.3
80°-90°	289.6	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°	2205.1	20.8
0°-40°	3921.1	36.9
0°-60°	7923.2	74.6
0°-90°	10617.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10617.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2511	2511	2511	2511	2511	
5°	2518	2520	2520	2520	2518	241
15°	2576	2576	2570	2564	2564	733
25°	2700	2688	2664	2637	2626	1251
35°	2822	2798	2740	2683	2657	1767
45°	2770	2733	2648	2557	2513	2127
55°	2352	2311	2224	2120	2064	2087
65°	1624	1605	1546	1466	1424	1604
75°	848	868	842	804	781	908
85°	257	270	268	263	252	288
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2510.7	2510.7	2510.7	2510.7	2510.7
2.5°	2512.6	2514.4	2514.4	2514.4	2514.4
5°	2518.1	2520.0	2520.0	2520.0	2518.1
7.5°	2527.4	2527.4	2529.2	2527.4	2521.8
10°	2540.3	2540.3	2540.3	2538.5	2536.6
12.5°	2555.1	2557.0	2553.3	2551.4	2549.6
15°	2575.5	2575.5	2570.0	2564.4	2564.4
17.5°	2603.3	2599.6	2592.2	2582.9	2579.2
20°	2631.1	2627.4	2614.4	2599.6	2592.2
22.5°	2662.5	2655.1	2638.5	2618.1	2610.7
25°	2699.6	2688.5	2664.4	2636.6	2625.5
27.5°	2732.9	2718.1	2688.5	2657.0	2638.5
30°	2768.1	2749.6	2710.7	2669.9	2651.4
32.5°	2795.8	2777.3	2727.3	2681.1	2657.0
35°	2821.8	2797.7	2740.3	2682.9	2657.0
37.5°	2832.9	2807.0	2740.3	2673.6	2640.3
40°	2829.2	2801.4	2727.3	2651.4	2612.5
42.5°	2810.7	2777.3	2697.7	2612.5	2568.1
45°	2769.9	2732.9	2647.7	2557.0	2512.6
47.5°	2699.6	2662.5	2571.8	2475.5	2421.8
50°	2607.0	2568.1	2482.9	2375.5	2320.0
52.5°	2490.3	2451.5	2362.6	2253.3	2199.6
55°	2351.5	2310.7	2223.7	2120.0	2064.5
57.5°	2181.1	2151.5	2066.3	1968.2	1914.5
60°	2007.1	1977.5	1899.7	1807.1	1753.4
62.5°	1820.1	1796.0	1725.6	1638.6	1592.3
65°	1623.8	1605.3	1546.0	1466.4	1423.8
67.5°	1423.8	1416.4	1362.7	1294.2	1257.2
70°	1223.9	1227.6	1183.1	1122.0	1090.6
72.5°	1029.5	1042.4	1007.2	957.3	935.0
75°	848.0	868.4	842.5	803.6	781.4
77.5°	679.5	707.3	685.1	655.5	636.9
80°	551.8	549.9	540.7	518.4	501.8
82.5°	396.2	403.6	398.1	385.1	375.9
85°	257.4	270.3	268.5	262.9	251.8
87.5°	127.8	142.6	144.4	140.7	135.2
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	18.6	20.4	19.0	20.7	21.0	17.9	19.7	18.3	20.0	20.3
	3H	20.4	22.0	20.8	22.3	22.7	19.7	21.3	20.1	21.6	22.0
	4H	21.1	22.6	21.5	22.9	23.3	20.4	21.9	20.8	22.3	22.6
	6H	21.6	23.0	22.0	23.4	23.8	21.0	22.4	21.4	22.7	23.1
	8H	21.8	23.2	22.3	23.5	23.9	21.2	22.5	21.6	22.9	23.3
	12H	22.0	23.2	22.4	23.6	24.1	21.4	22.6	21.8	23.0	23.4
4H	2H	19.2	20.7	19.6	21.1	21.4	18.7	20.2	19.1	20.5	20.9
	3H	21.3	22.5	21.7	22.9	23.3	20.7	22.0	21.1	22.4	22.7
	4H	22.1	23.2	22.5	23.6	24.1	21.5	22.7	21.9	23.1	23.5
	6H	22.8	23.8	23.2	24.2	24.7	22.2	23.2	22.7	23.6	24.1
	8H	23.0	24.0	23.5	24.4	24.9	22.5	23.4	22.9	23.9	24.3
	12H	23.2	24.1	23.7	24.5	25.0	22.7	23.5	23.2	24.0	24.5
8H	4H	22.4	23.3	22.9	23.8	24.2	21.9	22.8	22.4	23.3	23.7
	6H	23.2	24.0	23.7	24.5	25.0	22.7	23.5	23.2	24.0	24.5
	8H	23.6	24.3	24.1	24.8	25.3	23.1	23.8	23.6	24.3	24.8
	12H	23.9	24.5	24.4	25.0	25.5	23.4	24.0	23.9	24.5	25.1
12H	4H	22.4	23.3	22.9	23.8	24.2	22.0	22.8	22.4	23.3	23.8
	6H	23.3	24.0	23.8	24.5	25.0	22.8	23.6	23.4	24.0	24.5
	8H	23.7	24.3	24.2	24.8	25.4	23.3	23.9	23.8	24.4	24.9











(END OF REPORT)