

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: P1527066

Luminaire Tested: 24CGTX-100HE-F125-L840

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1527066
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-L840
Description: CGTX with F125 Lens Option

Light Source:
Ballast/Driver: -

Summary

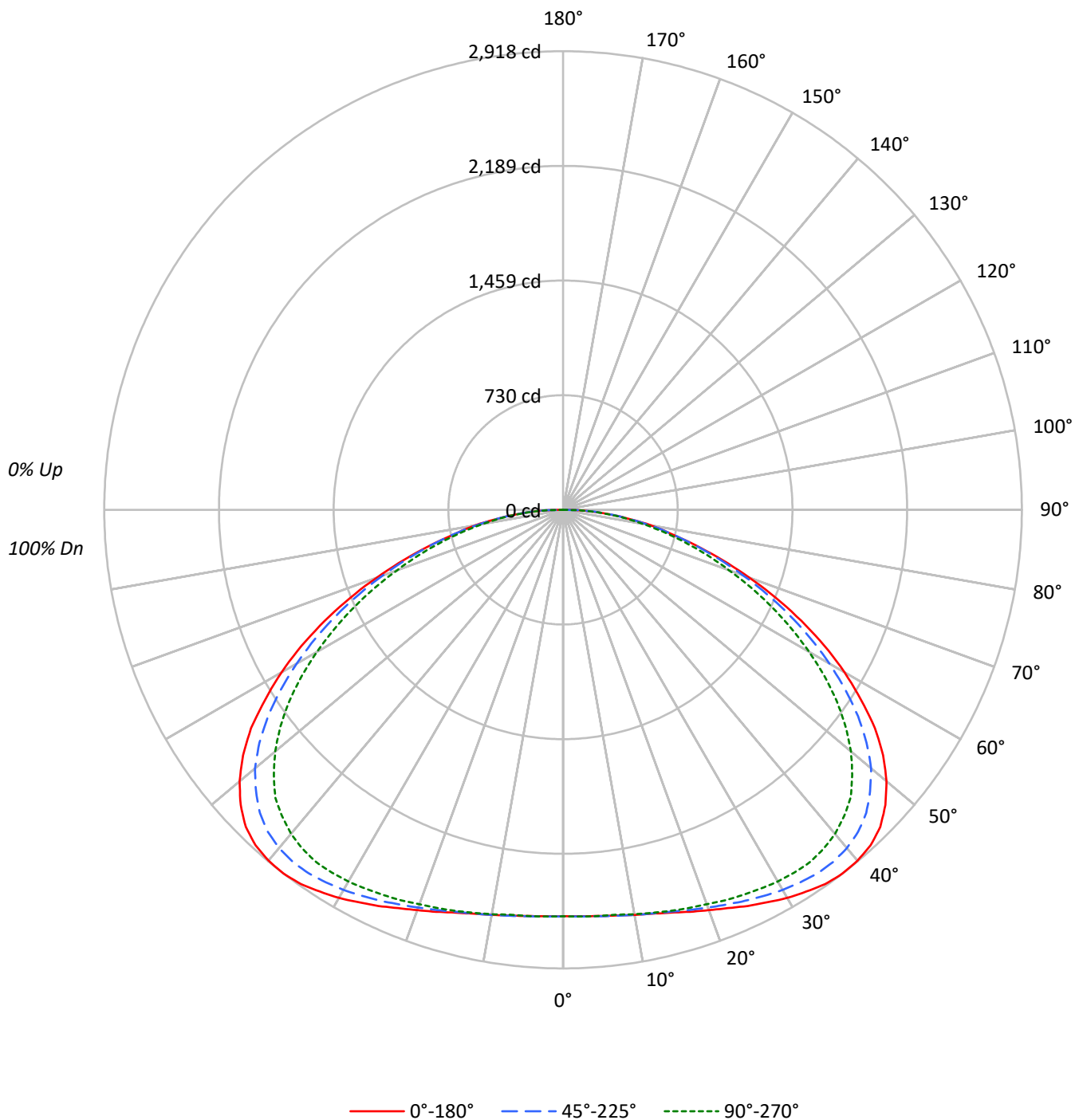
Lumens per Lamp: N/A
Luminaire Lumens: 10936.0 lumens
Efficiency: N/A
Efficacy: 132.4 lumens/watt
Spacing Criteria (0/90/45): 1.69 / 1.6 / 1.72
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	108	102	98	94	105	100	96	92	96	92	89		92	89	86		88
2	97	88	81	74	94	86	79	74	83	77	72		79	74	70		76
3	88	76	68	61	85	75	67	60	72	65	59		69	63	58		66
4	80	67	57	50	77	66	57	50	63	55	49		61	54	48		58
5	73	59	50	43	71	58	49	42	56	48	42		54	47	41		52
6	67	53	43	36	65	52	43	36	50	42	36		48	41	36		47
7	62	47	38	32	60	47	38	32	45	37	31		44	36	31		42
8	57	43	34	28	56	42	34	28	41	33	28		40	33	27		38
9	53	39	31	25	52	39	30	25	37	30	25		36	29	24		35
10	50	36	28	22	48	35	27	22	34	27	22		33	27	22		33

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3480	3480	3480
5°	3503	3506	3503
10°	3575	3575	3570
15°	3695	3687	3679
20°	3880	3856	3823
25°	4128	4074	4015
30°	4430	4338	4243
35°	4774	4636	4495
40°	5118	4934	4727
45°	5429	5189	4924
50°	5621	5353	5002
55°	5682	5373	4988
60°	5563	5265	4860
65°	5325	5070	4669
70°	4959	4794	4419
75°	4541	4511	4184
80°	4403	4315	4004
85°	4093	4269	4005

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 55°

Luminance: 5682 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	248.3	2.3
10°-20°	752.3	6.9
20°-30°	1270.6	11.6
30°-40°	1767.5	16.2
40°-50°	2092.3	19.1
50°-60°	2029.9	18.6
60°-70°	1564.0	14.3
70°-80°	912.6	8.3
80°-90°	298.3	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°	2271.3	20.8
0°-40°	4038.8	36.9
0°-60°	8161.1	74.6
0°-90°	10936.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10936.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2586	2586	2586	2586	2586	
5°	2594	2596	2596	2596	2594	248
15°	2653	2653	2647	2641	2641	755
25°	2781	2769	2744	2716	2704	1289
35°	2906	2882	2823	2764	2737	1821
45°	2853	2815	2727	2634	2588	2191
55°	2422	2380	2290	2184	2126	2150
65°	1673	1654	1592	1510	1467	1652
75°	874	894	868	828	805	936
85°	265	278	276	271	259	296
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2586.1	2586.1	2586.1	2586.1	2586.1
2.5°	2588.0	2589.9	2589.9	2589.9	2589.9
5°	2593.7	2595.6	2595.6	2595.6	2593.7
7.5°	2603.3	2603.3	2605.2	2603.3	2597.5
10°	2616.6	2616.6	2616.6	2614.7	2612.8
12.5°	2631.9	2633.8	2630.0	2628.1	2626.2
15°	2652.9	2652.9	2647.1	2641.4	2641.4
17.5°	2681.5	2677.6	2670.0	2660.5	2656.7
20°	2710.1	2706.3	2692.9	2677.6	2670.0
22.5°	2742.5	2734.9	2717.7	2696.7	2689.1
25°	2780.6	2769.2	2744.4	2715.8	2704.3
27.5°	2815.0	2799.7	2769.2	2736.8	2717.7
30°	2851.2	2832.1	2792.1	2750.1	2731.0
32.5°	2879.8	2860.7	2809.2	2761.6	2736.8
35°	2906.5	2881.7	2822.6	2763.5	2736.8
37.5°	2918.0	2891.3	2822.6	2753.9	2719.6
40°	2914.1	2885.5	2809.2	2731.0	2691.0
42.5°	2895.1	2860.7	2778.7	2691.0	2645.2
45°	2853.1	2815.0	2727.2	2633.8	2588.0
47.5°	2780.6	2742.5	2649.0	2549.9	2494.6
50°	2685.3	2645.2	2557.5	2446.9	2389.7
52.5°	2565.1	2525.1	2433.5	2321.0	2265.7
55°	2422.1	2380.1	2290.5	2183.7	2126.5
57.5°	2246.6	2216.1	2128.4	2027.3	1972.0
60°	2067.4	2036.8	1956.7	1861.4	1806.1
62.5°	1874.7	1849.9	1777.5	1687.8	1640.2
65°	1672.6	1653.5	1592.5	1510.5	1466.6
67.5°	1466.6	1459.0	1403.7	1333.1	1295.0
70°	1260.6	1264.4	1218.7	1155.7	1123.3
72.5°	1060.4	1073.7	1037.5	986.0	963.1
75°	873.5	894.5	867.8	827.7	804.8
77.5°	699.9	728.5	705.6	675.1	656.1
80°	568.3	566.4	556.9	534.0	516.8
82.5°	408.1	415.8	410.0	396.7	387.2
85°	265.1	278.4	276.5	270.8	259.4
87.5°	131.6	146.9	148.8	144.9	139.2
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	18.7	20.5	19.1	20.8	21.1	18.1	19.8	18.4	20.1	20.4
	3H	20.5	22.1	20.9	22.4	22.8	19.8	21.4	20.2	21.7	22.1
	4H	21.2	22.7	21.6	23.0	23.4	20.5	22.0	20.9	22.4	22.7
	6H	21.7	23.1	22.1	23.5	23.9	21.1	22.5	21.5	22.8	23.2
	8H	21.9	23.3	22.4	23.6	24.0	21.3	22.6	21.7	23.0	23.4
	12H	22.1	23.3	22.5	23.7	24.2	21.5	22.7	21.9	23.1	23.5
4H	2H	19.3	20.8	19.7	21.2	21.5	18.8	20.3	19.2	20.6	21.0
	3H	21.4	22.6	21.8	23.0	23.4	20.8	22.1	21.2	22.5	22.9
	4H	22.2	23.3	22.6	23.7	24.2	21.6	22.8	22.0	23.2	23.6
	6H	22.9	23.9	23.3	24.3	24.8	22.3	23.3	22.8	23.7	24.2
	8H	23.1	24.1	23.6	24.5	25.0	22.6	23.5	23.0	24.0	24.4
	12H	23.3	24.2	23.8	24.6	25.1	22.8	23.6	23.3	24.1	24.6
8H	4H	22.5	23.4	23.0	23.9	24.3	22.0	22.9	22.5	23.4	23.9
	6H	23.3	24.1	23.8	24.6	25.1	22.8	23.6	23.3	24.1	24.6
	8H	23.7	24.4	24.2	24.9	25.4	23.2	23.9	23.7	24.4	24.9
	12H	24.0	24.6	24.5	25.1	25.6	23.5	24.1	24.0	24.6	25.2
12H	4H	22.5	23.4	23.0	23.9	24.3	22.1	22.9	22.5	23.4	23.9
	6H	23.4	24.1	23.9	24.6	25.1	22.9	23.7	23.5	24.1	24.6
	8H	23.8	24.4	24.3	24.9	25.5	23.4	24.0	23.9	24.5	25.0













(END OF REPORT)