

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: P1527067

Luminaire Tested: 24CGTX-100HE-F125-L850

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1527067
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-L850
Description: CGTX with F125 Lens Option

Light Source:
Ballast/Driver: -

Summary

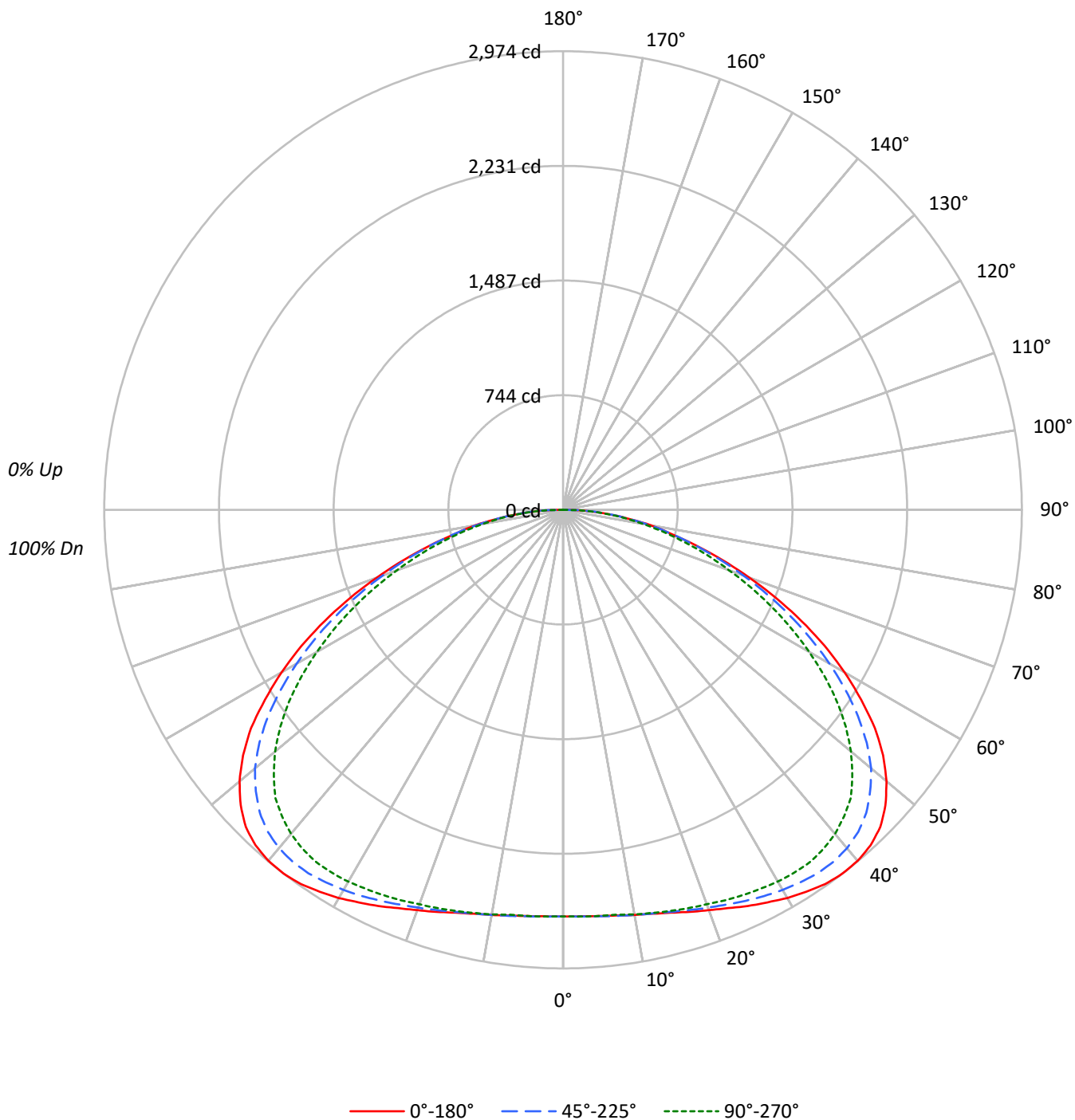
Lumens per Lamp: N/A
Luminaire Lumens: 11148.0 lumens
Efficiency: N/A
Efficacy: 135.0 lumens/watt
Spacing Criteria (0/90/45): 1.69 / 1.6 / 1.72
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	3547	3547	3547
5°	3571	3574	3571
10°	3644	3644	3639
15°	3767	3759	3751
20°	3956	3931	3897
25°	4208	4153	4093
30°	4516	4422	4325
35°	4867	4726	4582
40°	5218	5030	4818
45°	5534	5290	5020
50°	5730	5457	5099
55°	5792	5477	5085
60°	5671	5368	4954
65°	5428	5168	4760
70°	5056	4887	4505
75°	4629	4599	4265
80°	4489	4399	4083
85°	4171	4352	4082

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 55°

Luminance: 5792 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.2	2.3
10°-20°	766.9	6.9
20°-30°	1295.3	11.6
30°-40°	1801.8	16.2
40°-50°	2132.9	19.1
50°-60°	2069.3	18.6
60°-70°	1594.4	14.3
70°-80°	930.3	8.3
80°-90°	304.0	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°	2315.3	20.8
0°-40°	4117.1	36.9
0°-60°	8319.3	74.6
0°-90°	11148.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11148.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2636	2636	2636	2636	2636	
5°	2644	2646	2646	2646	2644	253
15°	2704	2704	2698	2693	2693	769
25°	2834	2823	2798	2768	2757	1314
35°	2963	2938	2877	2817	2790	1856
45°	2908	2870	2780	2685	2638	2233
55°	2469	2426	2335	2226	2168	2192
65°	1705	1686	1623	1540	1495	1684
75°	890	912	885	844	820	954
85°	270	284	282	276	264	302
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2636.2	2636.2	2636.2	2636.2	2636.2
2.5°	2638.2	2640.1	2640.1	2640.1	2640.1
5°	2644.0	2646.0	2646.0	2646.0	2644.0
7.5°	2653.7	2653.7	2655.7	2653.7	2647.9
10°	2667.3	2667.3	2667.3	2665.4	2663.5
12.5°	2682.9	2684.8	2681.0	2679.0	2677.1
15°	2704.3	2704.3	2698.5	2692.6	2692.6
17.5°	2733.4	2729.6	2721.8	2712.1	2708.2
20°	2762.6	2758.7	2745.1	2729.6	2721.8
22.5°	2795.7	2787.9	2770.4	2749.0	2741.2
25°	2834.5	2822.9	2797.6	2768.4	2756.8
27.5°	2869.5	2854.0	2822.9	2789.8	2770.4
30°	2906.5	2887.0	2846.2	2803.4	2784.0
32.5°	2935.6	2916.2	2863.7	2815.1	2789.8
35°	2962.9	2937.6	2877.3	2817.0	2789.8
37.5°	2974.5	2947.3	2877.3	2807.3	2772.3
40°	2970.6	2941.5	2863.7	2784.0	2743.2
42.5°	2951.2	2916.2	2832.6	2743.2	2696.5
45°	2908.4	2869.5	2780.1	2684.8	2638.2
47.5°	2834.5	2795.7	2700.4	2599.3	2542.9
50°	2737.3	2696.5	2607.1	2494.3	2436.0
52.5°	2614.9	2574.0	2480.7	2366.0	2309.6
55°	2469.0	2426.3	2334.9	2226.0	2167.7
57.5°	2290.2	2259.1	2169.6	2066.6	2010.2
60°	2107.4	2076.3	1994.7	1897.5	1841.1
62.5°	1911.1	1885.8	1811.9	1720.6	1672.0
65°	1705.0	1685.6	1623.3	1539.7	1495.0
67.5°	1495.0	1487.3	1430.9	1358.9	1320.1
70°	1285.1	1289.0	1242.3	1178.1	1145.1
72.5°	1080.9	1094.5	1057.6	1005.1	981.8
75°	890.4	911.8	884.6	843.8	820.4
77.5°	713.5	742.7	719.3	688.2	668.8
80°	579.4	577.4	567.7	544.4	526.9
82.5°	416.0	423.8	418.0	404.4	394.7
85°	270.2	283.8	281.9	276.1	264.4
87.5°	134.1	149.7	151.6	147.8	141.9
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	18.8	20.5	19.2	20.8	21.2	18.1	19.9	18.5	20.2	20.5
	3H	20.6	22.2	21.0	22.5	22.9	19.9	21.5	20.3	21.8	22.2
	4H	21.3	22.8	21.7	23.1	23.5	20.6	22.1	21.0	22.4	22.8
	6H	21.8	23.2	22.2	23.6	23.9	21.2	22.5	21.6	22.9	23.3
	8H	22.0	23.3	22.4	23.7	24.1	21.4	22.7	21.8	23.1	23.5
	12H	22.1	23.4	22.6	23.8	24.2	21.5	22.8	22.0	23.2	23.6
4H	2H	19.4	20.9	19.8	21.2	21.6	18.9	20.4	19.3	20.7	21.1
	3H	21.4	22.7	21.8	23.1	23.5	20.9	22.1	21.3	22.5	22.9
	4H	22.3	23.4	22.7	23.8	24.2	21.7	22.8	22.1	23.2	23.7
	6H	22.9	23.9	23.4	24.4	24.8	22.4	23.4	22.8	23.8	24.3
	8H	23.2	24.1	23.6	24.6	25.0	22.6	23.6	23.1	24.0	24.5
	12H	23.4	24.2	23.9	24.7	25.2	22.9	23.7	23.3	24.2	24.7
8H	4H	22.6	23.5	23.0	24.0	24.4	22.1	23.0	22.5	23.5	23.9
	6H	23.4	24.2	23.9	24.7	25.1	22.9	23.7	23.4	24.2	24.7
	8H	23.7	24.4	24.2	24.9	25.4	23.3	24.0	23.8	24.5	25.0
	12H	24.0	24.7	24.5	25.1	25.7	23.6	24.2	24.1	24.7	25.3
12H	4H	22.6	23.5	23.1	23.9	24.4	22.1	23.0	22.6	23.5	23.9
	6H	23.5	24.2	24.0	24.6	25.2	23.0	23.7	23.5	24.2	24.7
	8H	23.9	24.5	24.4	25.0	25.5	23.4	24.1	23.9	24.5	25.1















(END OF REPORT)