

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: P1527064

Luminaire Tested: 24CGTX-100HE-F125-L830

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1527064
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-L830
Description: CGTX with F125 Lens Option

Light Source:
Ballast/Driver: -

Summary

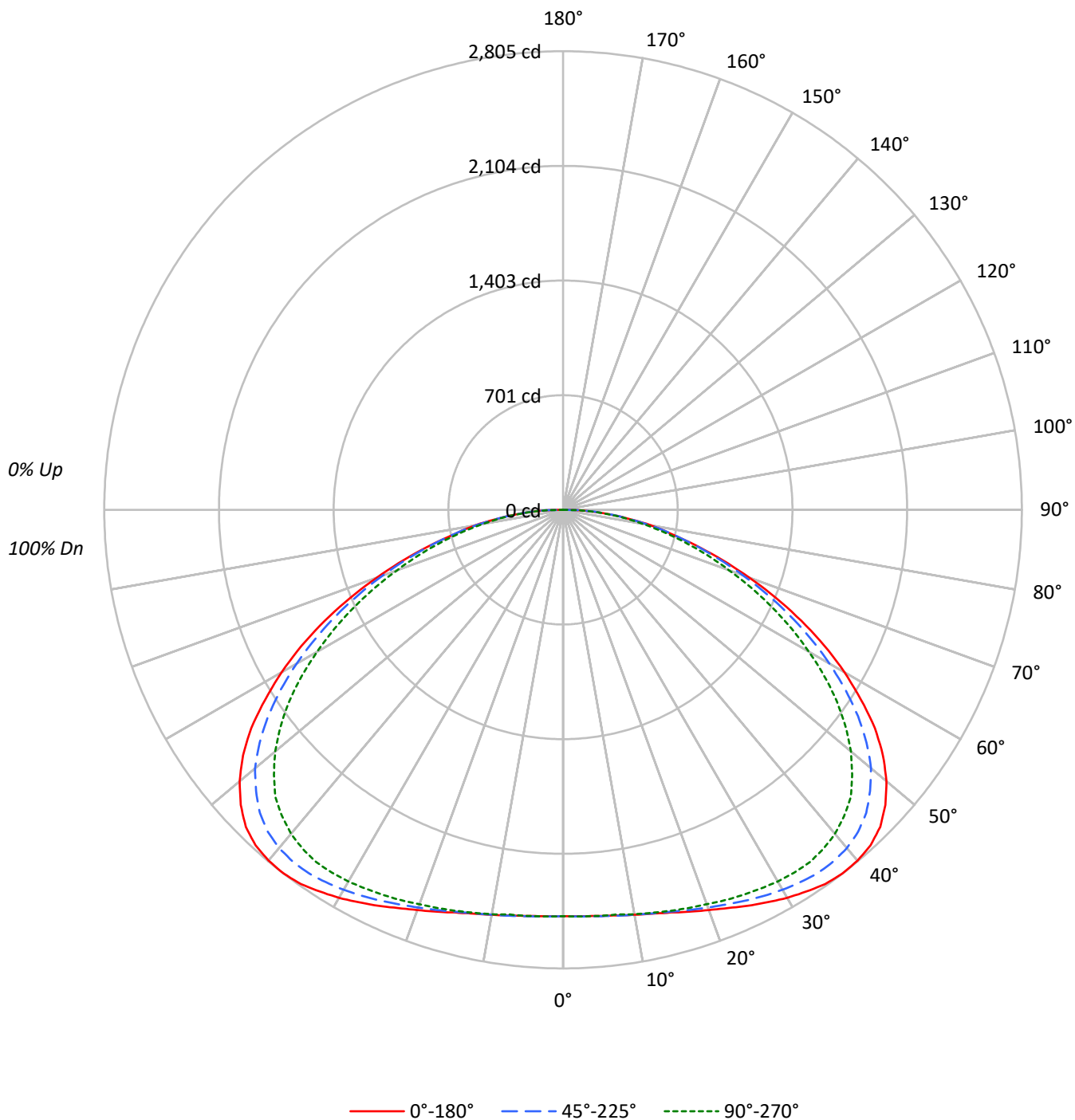
Lumens per Lamp: N/A
Luminaire Lumens: 10511.0 lumens
Efficiency: N/A
Efficacy: 127.3 lumens/watt
Spacing Criteria (0/90/45): 1.69 / 1.6 / 1.72
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1527064

CATALOG NUMBER: 24CGTX-100HE-F125-L830

Luminous Intensity Polar Plot



TEST NUMBER: P1527064

CATALOG NUMBER: 24CGTX-100HE-F125-L830

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	102	102	102	100
1	108	102	98	94	105	100	96	92	96	92	89	92	89	86	88	86	84	84	84	84	82
2	97	88	81	74	94	86	79	74	83	77	72	79	74	70	76	72	69	69	69	69	66
3	88	76	68	61	85	75	67	60	72	65	59	69	63	58	66	61	57	57	57	57	54
4	80	67	57	50	77	66	57	50	63	55	49	61	54	48	58	53	48	48	48	48	45
5	73	59	50	43	71	58	49	42	56	48	42	54	47	41	52	46	41	41	41	41	39
6	67	53	43	36	65	52	43	36	50	42	36	48	41	36	47	40	35	35	35	35	33
7	62	47	38	32	60	47	38	32	45	37	31	44	36	31	42	36	31	31	31	31	29
8	57	43	34	28	56	42	34	28	41	33	28	40	33	27	38	32	27	27	27	27	25
9	53	39	31	25	52	39	30	25	37	30	25	36	29	24	35	29	24	24	24	24	22
10	50	36	28	22	48	35	27	22	34	27	22	33	27	22	33	26	22	22	22	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3344	3344	3344
5°	3367	3370	3367
10°	3436	3436	3431
15°	3552	3544	3536
20°	3730	3706	3675
25°	3968	3916	3859
30°	4258	4169	4078
35°	4589	4456	4321
40°	4920	4742	4543
45°	5218	4988	4733
50°	5402	5145	4808
55°	5461	5164	4794
60°	5347	5061	4671
65°	5118	4873	4488
70°	4766	4608	4247
75°	4364	4336	4021
80°	4232	4147	3849
85°	3934	4103	3849

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 55°

Luminance: 5461 cd/sqm

TEST NUMBER: P1527064

CATALOG NUMBER: 24CGTX-100HE-F125-L830

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	238.7	2.3
10°-20°	723.1	6.9
20°-30°	1221.3	11.6
30°-40°	1698.9	16.2
40°-50°	2011.0	19.1
50°-60°	1951.1	18.6
60°-70°	1503.3	14.3
70°-80°	877.1	8.3
80°-90°	286.7	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°	2183.0	20.8
0°-40°	3881.9	36.9
0°-60°	7844.0	74.6
0°-90°	10511.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10511.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2486	2486	2486	2486	2486	
5°	2493	2495	2495	2495	2493	239
15°	2550	2550	2544	2539	2539	725
25°	2673	2662	2638	2610	2599	1238
35°	2794	2770	2713	2656	2630	1750
45°	2742	2706	2621	2531	2487	2106
55°	2328	2288	2202	2099	2044	2067
65°	1608	1589	1531	1452	1410	1588
75°	840	860	834	796	774	899
85°	255	268	266	260	249	285
90°	0	0	0	0	0	

TEST NUMBER: P1527064

CATALOG NUMBER: 24CGTX-100HE-F125-L830

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2485.6	2485.6	2485.6	2485.6	2485.6
2.5°	2487.4	2489.3	2489.3	2489.3	2489.3
5°	2492.9	2494.8	2494.8	2494.8	2492.9
7.5°	2502.1	2502.1	2503.9	2502.1	2496.6
10°	2514.9	2514.9	2514.9	2513.1	2511.3
12.5°	2529.6	2531.4	2527.8	2525.9	2524.1
15°	2549.8	2549.8	2544.3	2538.8	2538.8
17.5°	2577.3	2573.6	2566.3	2557.1	2553.4
20°	2604.8	2601.1	2588.3	2573.6	2566.3
22.5°	2635.9	2628.6	2612.1	2591.9	2584.6
25°	2672.6	2661.6	2637.7	2610.2	2599.3
27.5°	2705.6	2690.9	2661.6	2630.4	2612.1
30°	2740.4	2722.1	2683.6	2643.2	2624.9
32.5°	2767.9	2749.6	2700.1	2654.2	2630.4
35°	2793.6	2769.7	2712.9	2656.1	2630.4
37.5°	2804.6	2778.9	2712.9	2646.9	2613.9
40°	2800.9	2773.4	2700.1	2624.9	2586.4
42.5°	2782.6	2749.6	2670.7	2586.4	2542.4
45°	2742.2	2705.6	2621.2	2531.4	2487.4
47.5°	2672.6	2635.9	2546.1	2450.8	2397.6
50°	2580.9	2542.4	2458.1	2351.8	2296.8
52.5°	2465.4	2426.9	2339.0	2230.8	2177.7
55°	2328.0	2287.6	2201.5	2098.8	2043.8
57.5°	2159.3	2130.0	2045.7	1948.5	1895.4
60°	1987.0	1957.7	1880.7	1789.0	1735.9
62.5°	1801.9	1778.0	1708.4	1622.2	1576.4
65°	1607.6	1589.2	1530.6	1451.8	1409.6
67.5°	1409.6	1402.3	1349.1	1281.3	1244.6
70°	1211.6	1215.3	1171.3	1110.8	1079.7
72.5°	1019.2	1032.0	997.2	947.7	925.7
75°	839.5	859.7	834.0	795.5	773.5
77.5°	672.7	700.2	678.2	648.9	630.6
80°	546.2	544.4	535.2	513.3	496.8
82.5°	392.3	399.6	394.1	381.3	372.1
85°	254.8	267.6	265.8	260.3	249.3
87.5°	126.5	141.1	143.0	139.3	133.8
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1527064

CATALOG NUMBER: 24CGTX-100HE-F125-L830

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	20.3	19.0	20.6	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	22.2	22.6
	6H	21.6	23.0	22.0	23.3	23.7	20.9	22.3	21.4	22.7	23.1
	8H	21.8	23.1	22.2	23.5	23.9	21.2	22.5	21.6	22.9	23.3
	12H	21.9	23.2	22.4	23.6	24.0	21.3	22.6	21.7	23.0	23.4
4H	2H	19.2	20.7	19.6	21.0	21.4	18.7	20.1	19.1	20.5	20.9
	3H	21.2	22.5	21.6	22.9	23.3	20.7	21.9	21.1	22.3	22.7
	4H	22.0	23.2	22.5	23.6	24.0	21.5	22.6	21.9	23.0	23.5
	6H	22.7	23.7	23.2	24.2	24.6	22.2	23.2	22.6	23.6	24.1
	8H	23.0	23.9	23.4	24.4	24.8	22.4	23.4	22.9	23.8	24.3
	12H	23.2	24.0	23.7	24.5	25.0	22.7	23.5	23.1	24.0	24.4
8H	4H	22.4	23.3	22.8	23.7	24.2	21.9	22.8	22.3	23.2	23.7
	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	23.1	23.8	23.6	24.3	24.7
	12H	23.8	24.5	24.3	24.9	25.5	23.4	24.0	23.9	24.5	25.0
12H	4H	22.4	23.3	22.9	23.7	24.2	21.9	22.8	22.4	23.2	23.7
	6H	23.3	24.0	23.8	24.4	25.0	22.8	23.5	23.3	24.0	24.5
	8H	23.7	24.3	24.2	24.8	25.3	23.2	23.8	23.7	24.3	24.9









(END OF REPORT)