

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: P1527070

Luminaire Tested: 24CGTX-100HE-F125-L940

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1527070
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-L940
Description: CGTX with F125 Lens Option

Light Source:
Ballast/Driver: -

Summary

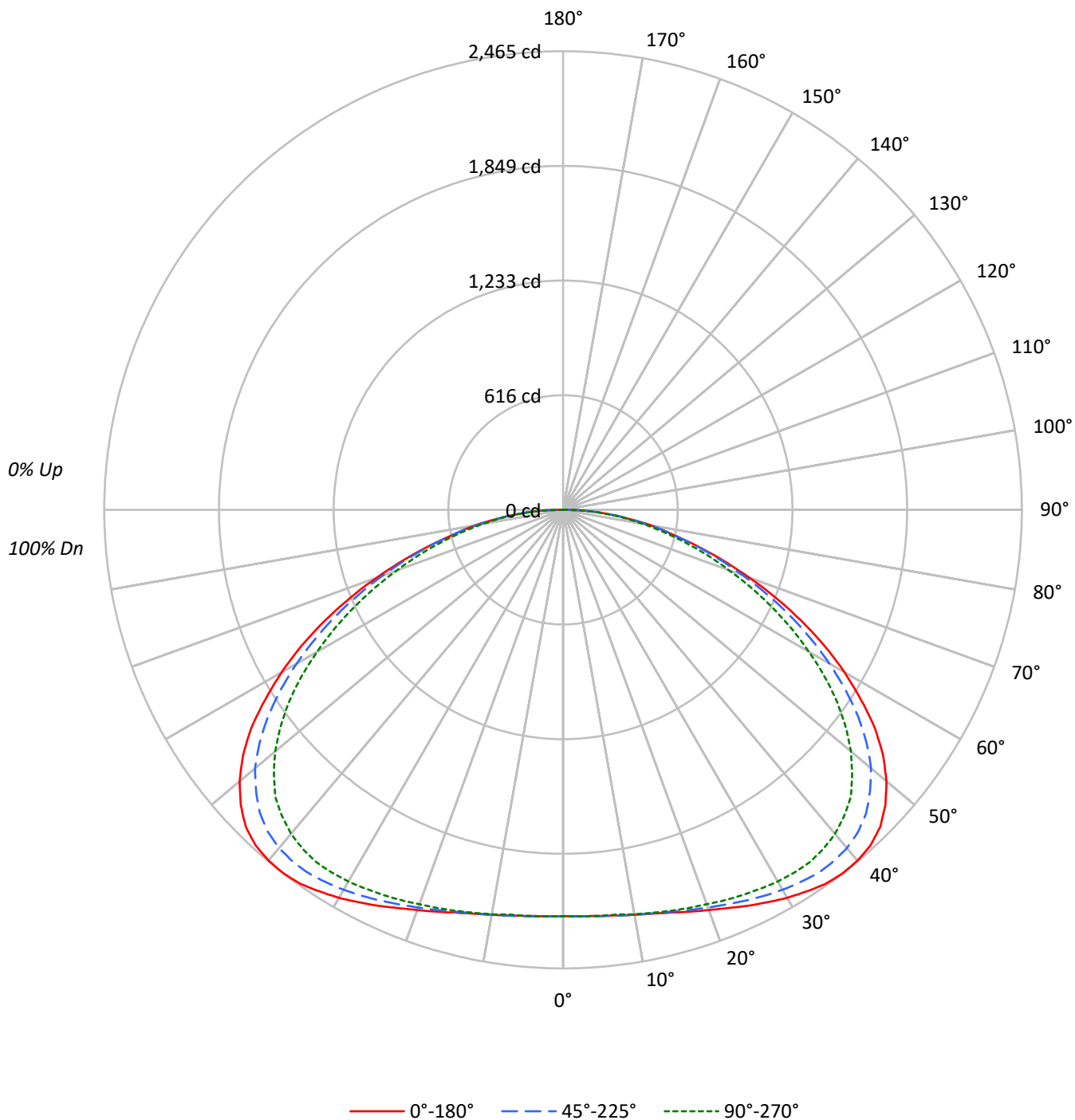
Lumens per Lamp: N/A
Luminaire Lumens: 9237.0 lumens
Efficiency: N/A
Efficacy: 111.8 lumens/watt
Spacing Criteria (0/90/45): 1.69 / 1.6 / 1.72
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	2939	2939	2939
5°	2959	2961	2959
10°	3020	3020	3015
15°	3121	3115	3108
20°	3277	3257	3229
25°	3487	3441	3391
30°	3741	3664	3584
35°	4032	3916	3797
40°	4323	4168	3992
45°	4586	4383	4159
50°	4748	4522	4225
55°	4799	4538	4213
60°	4699	4447	4105
65°	4498	4282	3944
70°	4189	4049	3733
75°	3836	3810	3534
80°	3719	3645	3382
85°	3457	3606	3382

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 55°

Luminance: 4799 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.8	2.3
10°-20°	635.4	6.9
20°-30°	1073.2	11.6
30°-40°	1492.9	16.2
40°-50°	1767.3	19.1
50°-60°	1714.6	18.6
60°-70°	1321.1	14.3
70°-80°	770.8	8.3
80°-90°	251.9	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°	1918.4	20.8
0°-40°	3411.4	36.9
0°-60°	6893.2	74.6
0°-90°	9237.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9237.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2184	2184	2184	2184	2184	
5°	2191	2192	2192	2192	2191	210
15°	2241	2241	2236	2231	2231	637
25°	2349	2339	2318	2294	2284	1088
35°	2455	2434	2384	2334	2312	1538
45°	2410	2378	2304	2225	2186	1851
55°	2046	2010	1935	1844	1796	1816
65°	1413	1397	1345	1276	1239	1395
75°	738	756	733	699	680	790
85°	224	235	234	229	219	250
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2184.3	2184.3	2184.3	2184.3	2184.3
2.5°	2185.9	2187.6	2187.6	2187.6	2187.6
5°	2190.8	2192.4	2192.4	2192.4	2190.8
7.5°	2198.8	2198.8	2200.4	2198.8	2194.0
10°	2210.1	2210.1	2210.1	2208.5	2206.9
12.5°	2223.0	2224.6	2221.4	2219.8	2218.2
15°	2240.7	2240.7	2235.9	2231.0	2231.0
17.5°	2264.9	2261.7	2255.2	2247.2	2243.9
20°	2289.0	2285.8	2274.5	2261.7	2255.2
22.5°	2316.4	2310.0	2295.5	2277.8	2271.3
25°	2348.6	2339.0	2318.0	2293.9	2284.2
27.5°	2377.6	2364.7	2339.0	2311.6	2295.5
30°	2408.2	2392.1	2358.3	2322.9	2306.8
32.5°	2432.4	2416.3	2372.8	2332.5	2311.6
35°	2455.0	2434.0	2384.1	2334.1	2311.6
37.5°	2464.6	2442.1	2384.1	2326.1	2297.1
40°	2461.4	2437.2	2372.8	2306.8	2272.9
42.5°	2445.3	2416.3	2347.0	2272.9	2234.3
45°	2409.9	2377.6	2303.5	2224.6	2185.9
47.5°	2348.6	2316.4	2237.5	2153.7	2107.0
50°	2268.1	2234.3	2160.2	2066.7	2018.4
52.5°	2166.6	2132.8	2055.5	1960.4	1913.7
55°	2045.8	2010.4	1934.6	1844.4	1796.1
57.5°	1897.6	1871.8	1797.7	1712.3	1665.6
60°	1746.2	1720.4	1652.7	1572.2	1525.5
62.5°	1583.5	1562.5	1501.3	1425.6	1385.3
65°	1412.7	1396.6	1345.1	1275.8	1238.8
67.5°	1238.8	1232.3	1185.6	1126.0	1093.8
70°	1064.8	1068.0	1029.3	976.2	948.8
72.5°	895.6	906.9	876.3	832.8	813.5
75°	737.8	755.5	732.9	699.1	679.8
77.5°	591.2	615.4	596.0	570.2	554.1
80°	480.0	478.4	470.4	451.0	436.5
82.5°	344.7	351.2	346.3	335.1	327.0
85°	223.9	235.2	233.6	228.7	219.1
87.5°	111.1	124.0	125.6	122.4	117.6
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	18.1	19.9	18.5	20.2	20.5	17.5	19.2	17.8	19.5	19.8
	3H	20.0	21.5	20.3	21.9	22.2	19.3	20.8	19.6	21.2	21.5
	4H	20.6	22.1	21.0	22.5	22.8	19.9	21.4	20.3	21.8	22.2
	6H	21.2	22.5	21.6	22.9	23.3	20.5	21.9	20.9	22.2	22.6
	8H	21.3	22.7	21.8	23.1	23.5	20.7	22.0	21.1	22.4	22.8
	12H	21.5	22.8	21.9	23.1	23.6	20.9	22.1	21.3	22.5	23.0
4H	2H	18.7	20.2	19.1	20.6	20.9	18.2	19.7	18.6	20.0	20.4
	3H	20.8	22.0	21.2	22.4	22.8	20.2	21.5	20.6	21.9	22.3
	4H	21.6	22.7	22.0	23.2	23.6	21.0	22.2	21.5	22.6	23.0
	6H	22.3	23.3	22.7	23.7	24.2	21.7	22.7	22.2	23.2	23.6
	8H	22.5	23.5	23.0	23.9	24.4	22.0	22.9	22.4	23.4	23.8
	12H	22.7	23.6	23.2	24.1	24.5	22.2	23.1	22.7	23.5	24.0
8H	4H	21.9	22.9	22.4	23.3	23.8	21.4	22.4	21.9	22.8	23.3
	6H	22.7	23.5	23.2	24.0	24.5	22.3	23.0	22.7	23.5	24.0
	8H	23.1	23.8	23.6	24.3	24.8	22.6	23.3	23.1	23.8	24.3
	12H	23.4	24.0	23.9	24.5	25.1	22.9	23.6	23.4	24.0	24.6
12H	4H	22.0	22.8	22.4	23.3	23.8	21.5	22.3	22.0	22.8	23.3
	6H	22.8	23.5	23.3	24.0	24.5	22.4	23.1	22.9	23.5	24.1
	8H	23.2	23.8	23.7	24.3	24.9	22.8	23.4	23.3	23.9	24.4















(END OF REPORT)