

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: P1526847

Luminaire Tested: 24CGTX-100HE-A125-L830

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1526847
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2507-496-4)
Test Lab: INNOVATION CENTER
Issue Date: 8/24/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 24CGTX-100HE-A125-L830
Description: CGTX with A125 Lens Option

Light Source:
Ballast/Driver: -

Summary

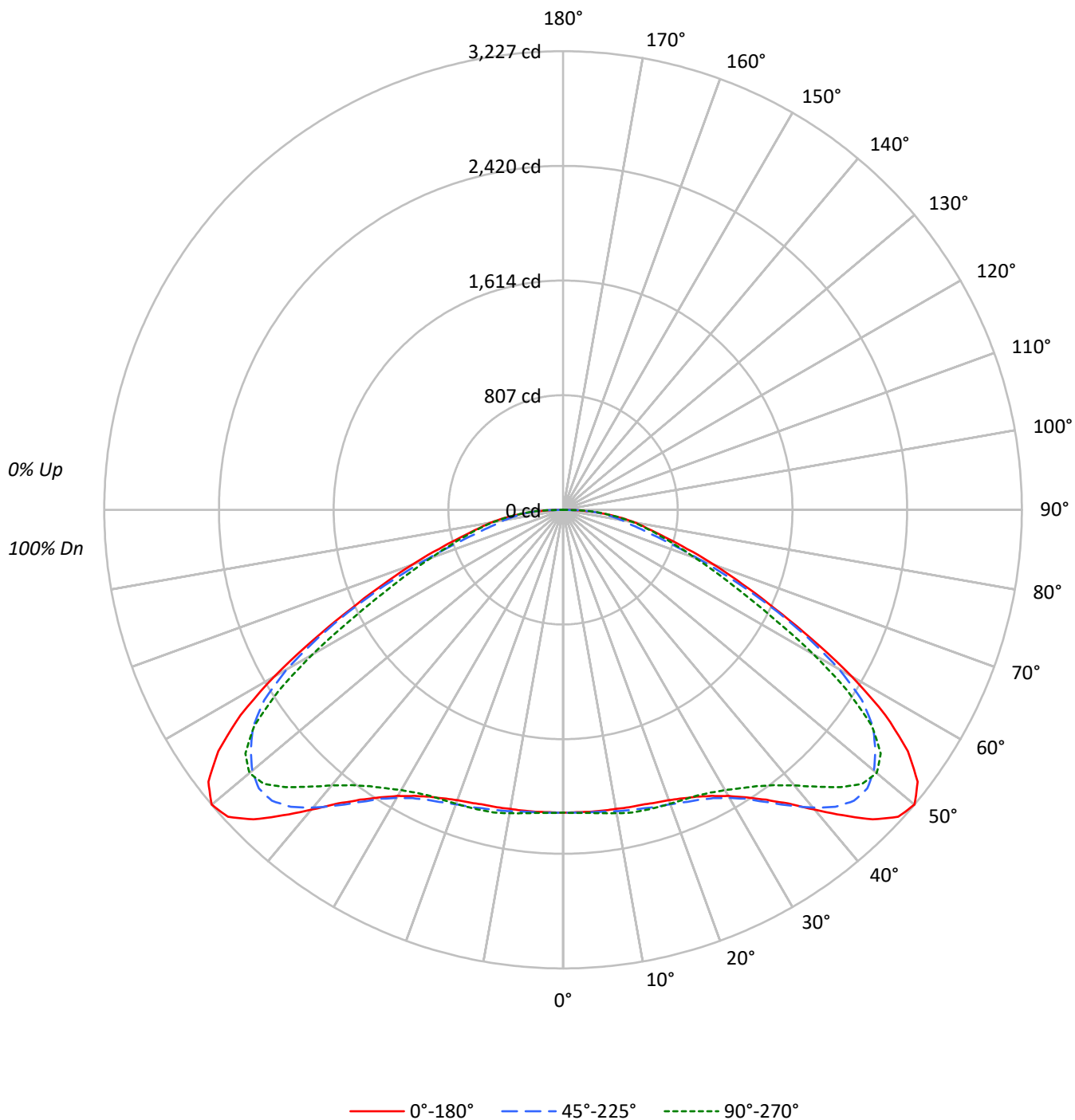
Lumens per Lamp: N/A
Luminaire Lumens: 10637.5 lumens
Efficiency: N/A
Efficacy: 128.8 lumens/watt
Spacing Criteria (0/90/45): 2.04 / 1.82 / 1.97
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	108	102	98	94	105	100	96	92		96	92	89		92	89	86		88	86	84
2	97	88	80	74	94	86	79	73		82	76	71		79	74	70		76	72	68
3	87	76	67	60	85	74	66	59		71	64	58		68	62	57		66	60	56
4	79	66	56	49	77	65	56	49		62	54	48		60	53	47		57	51	47
5	72	58	48	41	70	57	48	41		55	46	40		53	45	40		51	44	39
6	66	51	42	35	64	50	41	35		49	40	34		47	39	34		45	39	34
7	61	46	36	30	59	45	36	30		43	35	29		42	35	29		41	34	29
8	56	41	32	26	54	41	32	26		39	31	26		38	31	25		37	30	25
9	52	38	29	23	50	37	29	23		36	28	23		35	28	22		34	27	22
10	48	34	26	20	47	34	26	20		33	25	20		32	25	20		31	24	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2867	2867	2867
5°	2881	2886	2891
10°	2919	2942	2962
15°	2992	3030	3050
20°	3112	3157	3151
25°	3306	3344	3295
30°	3611	3637	3537
35°	4090	4126	3900
40°	4836	4804	4445
45°	5860	5509	5250
50°	6755	5976	6030
55°	6943	6243	6222
60°	6309	6032	5477
65°	5219	5125	4468
70°	4456	4014	3884
75°	3859	3198	3677
80°	3996	3240	3867
85°	4037	3895	4293

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 6949 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.5	1.9
10°-20°	616.8	5.8
20°-30°	1041.8	9.8
30°-40°	1568.3	14.7
40°-50°	2230.1	21.0
50°-60°	2393.4	22.5
60°-70°	1559.7	14.7
70°-80°	750.0	7.1
80°-90°	272.9	2.6
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°	1863.1	17.5
0°-40°	3431.4	32.3
0°-60°	8054.9	75.7
0°-90°	10637.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10637.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2131	2131	2131	2131	2131	
5°	2133	2135	2136	2144	2140	204
15°	2148	2159	2175	2188	2190	610
25°	2227	2247	2252	2232	2219	1037
35°	2490	2538	2512	2428	2374	1581
45°	3080	3004	2895	2820	2759	2364
55°	2960	2884	2661	2584	2652	2589
65°	1639	1626	1610	1437	1404	1659
75°	742	702	615	700	707	815
85°	262	245	252	260	278	285
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2131.0	2131.0	2131.0	2131.0	2131.0
2.5°	2129.1	2131.0	2132.8	2134.7	2134.7
5°	2132.8	2134.7	2136.5	2143.9	2140.2
7.5°	2134.7	2136.5	2142.0	2153.1	2153.1
10°	2136.5	2142.0	2153.1	2164.1	2167.8
12.5°	2143.9	2149.4	2164.1	2178.9	2182.6
15°	2147.6	2158.6	2175.2	2188.1	2189.9
17.5°	2160.4	2171.5	2189.9	2195.4	2195.4
20°	2173.3	2188.1	2204.7	2204.7	2201.0
22.5°	2197.3	2213.9	2226.8	2215.7	2208.3
25°	2226.8	2247.0	2252.5	2232.3	2219.4
27.5°	2269.1	2294.9	2287.5	2259.9	2243.3
30°	2324.4	2357.5	2340.9	2300.4	2276.5
32.5°	2398.0	2438.6	2410.9	2359.4	2322.5
35°	2490.1	2538.0	2512.2	2427.5	2374.1
37.5°	2604.3	2654.1	2622.7	2514.1	2442.2
40°	2753.5	2779.3	2735.1	2617.2	2530.7
42.5°	2915.6	2902.7	2834.6	2725.9	2641.2
45°	3079.5	3004.0	2895.3	2819.8	2759.0
47.5°	3197.4	3057.4	2902.7	2864.0	2853.0
50°	3226.9	3046.4	2854.8	2840.1	2880.6
52.5°	3144.0	2987.4	2768.2	2742.5	2816.1
55°	2959.8	2884.3	2661.4	2584.1	2652.2
57.5°	2689.0	2683.5	2492.0	2353.8	2372.3
60°	2344.6	2366.7	2241.5	2046.3	2035.2
62.5°	1972.6	1985.5	1930.2	1727.6	1688.9
65°	1639.2	1626.3	1609.7	1436.6	1403.5
67.5°	1364.8	1326.1	1300.3	1195.3	1178.8
70°	1132.7	1071.9	1020.4	1003.8	987.2
72.5°	917.2	873.0	790.1	836.2	834.3
75°	742.3	701.7	615.2	699.9	707.3
77.5°	607.8	580.2	497.3	574.6	598.6
80°	515.7	458.6	418.1	467.8	499.1
82.5°	394.1	349.9	340.7	361.0	390.5
85°	261.5	245.0	252.3	259.7	278.1
87.5°	132.6	141.8	152.9	165.8	175.0
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	20.1	21.8	20.4	22.2	22.5	19.1	20.9	19.5	21.2	21.6
	3H	21.2	22.8	21.5	23.1	23.5	20.3	21.9	20.7	22.2	22.6
	4H	21.6	23.1	21.9	23.4	23.8	20.7	22.3	21.1	22.6	23.0
	6H	21.9	23.3	22.3	23.7	24.1	21.2	22.6	21.6	23.0	23.4
	8H	22.1	23.4	22.5	23.8	24.2	21.4	22.7	21.8	23.1	23.5
	12H	22.2	23.5	22.6	23.9	24.3	21.6	22.9	22.0	23.2	23.7
4H	2H	20.5	22.0	20.9	22.3	22.7	19.7	21.2	20.1	21.6	22.0
	3H	21.7	23.0	22.2	23.4	23.8	21.0	22.3	21.4	22.7	23.1
	4H	22.2	23.4	22.7	23.8	24.3	21.6	22.8	22.0	23.2	23.6
	6H	22.7	23.8	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	23.6	24.5	25.0	22.7	23.6	23.2	24.0	24.5
8H	4H	22.4	23.4	22.9	23.8	24.3	21.8	22.8	22.3	23.2	23.7
	6H	23.0	23.8	23.5	24.3	24.8	22.5	23.3	23.0	23.8	24.3
	8H	23.3	24.0	23.8	24.5	25.0	22.9	23.6	23.4	24.1	24.6
	12H	23.6	24.2	24.1	24.7	25.3	23.2	23.9	23.7	24.4	24.9
12H	4H	22.4	23.3	22.9	23.8	24.2	21.9	22.7	22.3	23.2	23.7
	6H	23.1	23.8	23.6	24.3	24.8	22.6	23.3	23.1	23.8	24.3
	8H	23.4	24.1	23.9	24.5	25.1	23.0	23.6	23.5	24.1	24.7













(END OF REPORT)