

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: P1526861

Luminaire Tested: 24CGTX-20HE-A125-L850

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1526861
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-20HE-A125-L850
Description: CGTX with A125 Lens Option

Light Source:
Ballast/Driver: -

Summary

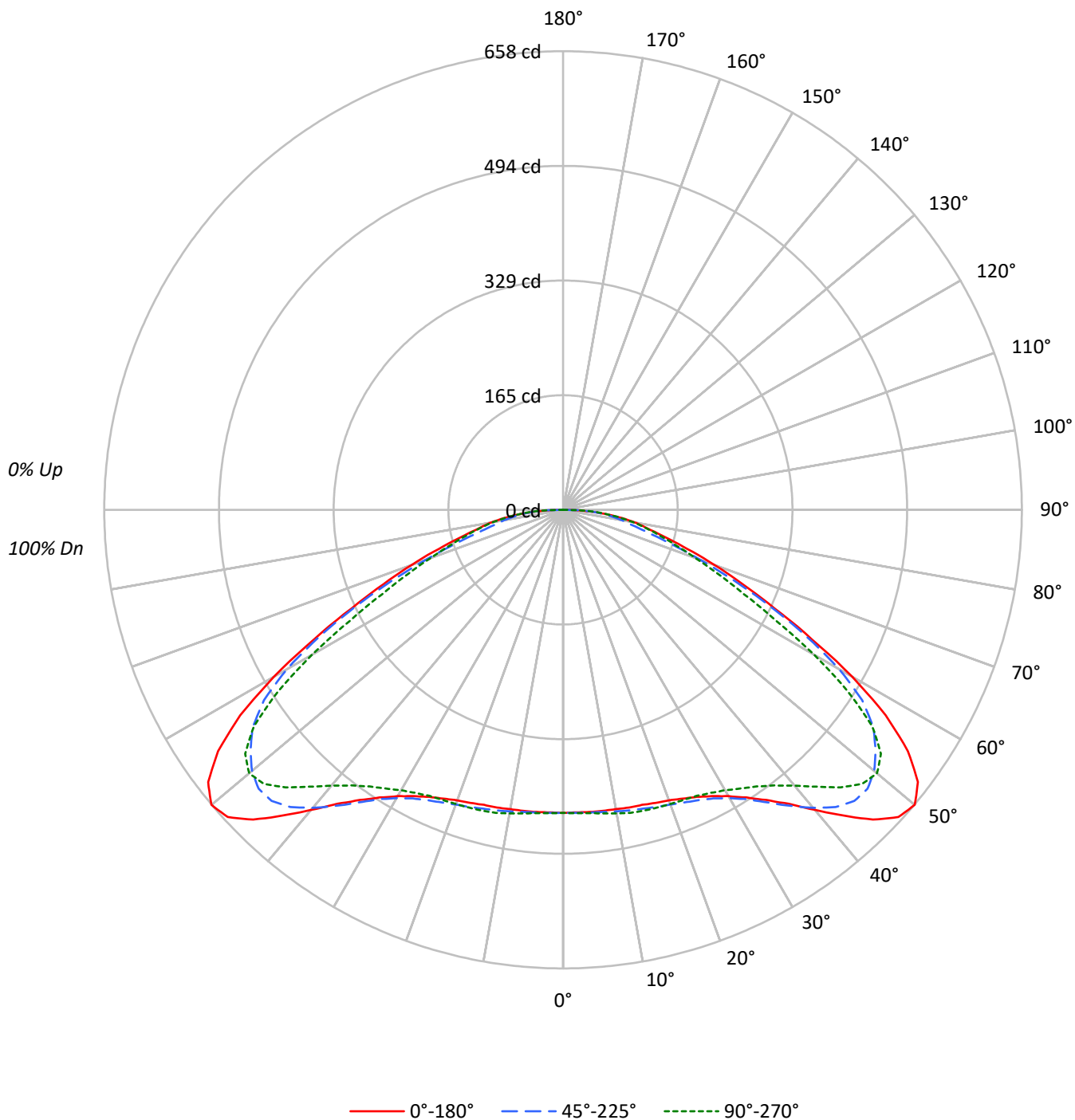
Lumens per Lamp: N/A
Luminaire Lumens: 2170.6 lumens
Efficiency: N/A
Efficacy: 145.7 lumens/watt
Spacing Criteria (0/90/45): 2.04 / 1.82 / 1.97
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 14.9
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	80	74	94	86	79	73	82	76	71	79	74	70	76	72	68	66			
3	87	76	67	60	85	74	66	59	71	64	58	68	62	57	66	60	56	54			
4	79	66	56	49	77	65	56	49	62	54	48	60	53	47	57	51	47	44			
5	72	58	48	41	70	57	48	41	55	46	40	53	45	40	51	44	39	37			
6	66	51	42	35	64	50	41	35	49	40	34	47	39	34	45	39	34	31			
7	61	46	36	30	59	45	36	30	43	35	29	42	35	29	41	34	29	27			
8	56	41	32	26	54	41	32	26	39	31	26	38	31	25	37	30	25	23			
9	52	38	29	23	50	37	29	23	36	28	23	35	28	22	34	27	22	20			
10	48	34	26	20	47	34	26	20	33	25	20	32	25	20	31	24	20	18			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	585	585	585
5°	588	589	590
10°	596	600	604
15°	610	618	623
20°	635	644	643
25°	675	682	672
30°	737	742	722
35°	835	842	796
40°	987	980	907
45°	1196	1124	1071
50°	1378	1219	1230
55°	1417	1274	1270
60°	1287	1231	1118
65°	1065	1046	912
70°	909	819	792
75°	788	652	750
80°	815	661	789
85°	824	795	875

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 1418 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.7	1.9
10°-20°	125.9	5.8
20°-30°	212.6	9.8
30°-40°	320.0	14.7
40°-50°	455.1	21.0
50°-60°	488.4	22.5
60°-70°	318.3	14.7
70°-80°	153.0	7.0
80°-90°	55.7	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°	380.2	17.5
0°-40°	700.2	32.3
0°-60°	1643.6	75.7
0°-90°	2170.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2170.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	435	435	435	435	435	
5°	435	436	436	438	437	42
15°	438	440	444	446	447	125
25°	454	458	460	456	453	212
35°	508	518	513	495	484	323
45°	628	613	591	575	563	482
55°	604	588	543	527	541	528
65°	334	332	328	293	286	338
75°	152	143	126	143	144	166
85°	53	50	52	53	57	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	434.8	434.8	434.8	434.8	434.8
2.5°	434.4	434.8	435.2	435.6	435.6
5°	435.2	435.6	436.0	437.5	436.7
7.5°	435.6	436.0	437.1	439.3	439.3
10°	436.0	437.1	439.3	441.6	442.3
12.5°	437.5	438.6	441.6	444.6	445.3
15°	438.2	440.5	443.8	446.5	446.9
17.5°	440.8	443.1	446.9	448.0	448.0
20°	443.5	446.5	449.9	449.9	449.1
22.5°	448.4	451.7	454.4	452.1	450.6
25°	454.4	458.5	459.6	455.5	452.9
27.5°	463.0	468.3	466.8	461.1	457.8
30°	474.3	481.1	477.7	469.4	464.5
32.5°	489.3	497.6	492.0	481.4	473.9
35°	508.1	517.9	512.6	495.3	484.4
37.5°	531.4	541.6	535.2	513.0	498.3
40°	561.9	567.1	558.1	534.0	516.4
42.5°	594.9	592.3	578.4	556.2	538.9
45°	628.4	613.0	590.8	575.4	563.0
47.5°	652.4	623.9	592.3	584.4	582.1
50°	658.4	621.6	582.5	579.5	587.8
52.5°	641.5	609.6	564.9	559.6	574.6
55°	603.9	588.5	543.1	527.3	541.2
57.5°	548.7	547.6	508.5	480.3	484.1
60°	478.4	482.9	457.4	417.5	415.3
62.5°	402.5	405.1	393.9	352.5	344.6
65°	334.5	331.9	328.5	293.1	286.4
67.5°	278.5	270.6	265.3	243.9	240.5
70°	231.1	218.7	208.2	204.8	201.4
72.5°	187.2	178.1	161.2	170.6	170.2
75°	151.5	143.2	125.5	142.8	144.3
77.5°	124.0	118.4	101.5	117.3	122.1
80°	105.2	93.6	85.3	95.5	101.8
82.5°	80.4	71.4	69.5	73.7	79.7
85°	53.4	50.0	51.5	53.0	56.7
87.5°	27.1	28.9	31.2	33.8	35.7
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	14.5	16.3	14.9	16.6	16.9	13.6	15.4	14.0	15.7	16.0
	3H	15.6	17.3	16.0	17.6	17.9	14.8	16.4	15.1	16.7	17.1
	4H	16.0	17.6	16.4	17.9	18.3	15.2	16.7	15.6	17.1	17.5
	6H	16.4	17.8	16.8	18.2	18.6	15.7	17.1	16.1	17.4	17.8
	8H	16.5	17.9	17.0	18.3	18.7	15.9	17.2	16.3	17.6	18.0
	12H	16.7	18.0	17.1	18.4	18.8	16.0	17.3	16.5	17.7	18.1
4H	2H	14.9	16.5	15.3	16.8	17.2	14.2	15.7	14.6	16.1	16.4
	3H	16.2	17.5	16.6	17.9	18.3	15.5	16.8	15.9	17.2	17.6
	4H	16.7	17.9	17.2	18.3	18.7	16.1	17.2	16.5	17.7	18.1
	6H	17.2	18.2	17.7	18.7	19.1	16.7	17.7	17.1	18.1	18.6
	8H	17.4	18.4	17.9	18.8	19.3	16.9	17.9	17.4	18.3	18.8
	12H	17.6	18.5	18.1	19.0	19.4	17.2	18.0	17.6	18.5	19.0
8H	4H	16.9	17.8	17.3	18.3	18.7	16.3	17.3	16.8	17.7	18.2
	6H	17.5	18.3	18.0	18.8	19.2	17.0	17.8	17.5	18.3	18.8
	8H	17.8	18.5	18.3	19.0	19.5	17.4	18.1	17.9	18.6	19.1
	12H	18.1	18.7	18.6	19.2	19.8	17.7	18.3	18.2	18.8	19.4
12H	4H	16.9	17.8	17.4	18.3	18.7	16.3	17.2	16.8	17.7	18.1
	6H	17.5	18.3	18.1	18.7	19.3	17.1	17.8	17.6	18.3	18.8
	8H	17.9	18.5	18.4	19.0	19.6	17.5	18.1	18.0	18.6	19.2













(END OF REPORT)