

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: P1526854

Luminaire Tested: 24CGTX-20-A125-L830

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1526854
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-20-A125-L830
Description: CGTX with A125 Lens Option

Light Source:
Ballast/Driver: -

Summary

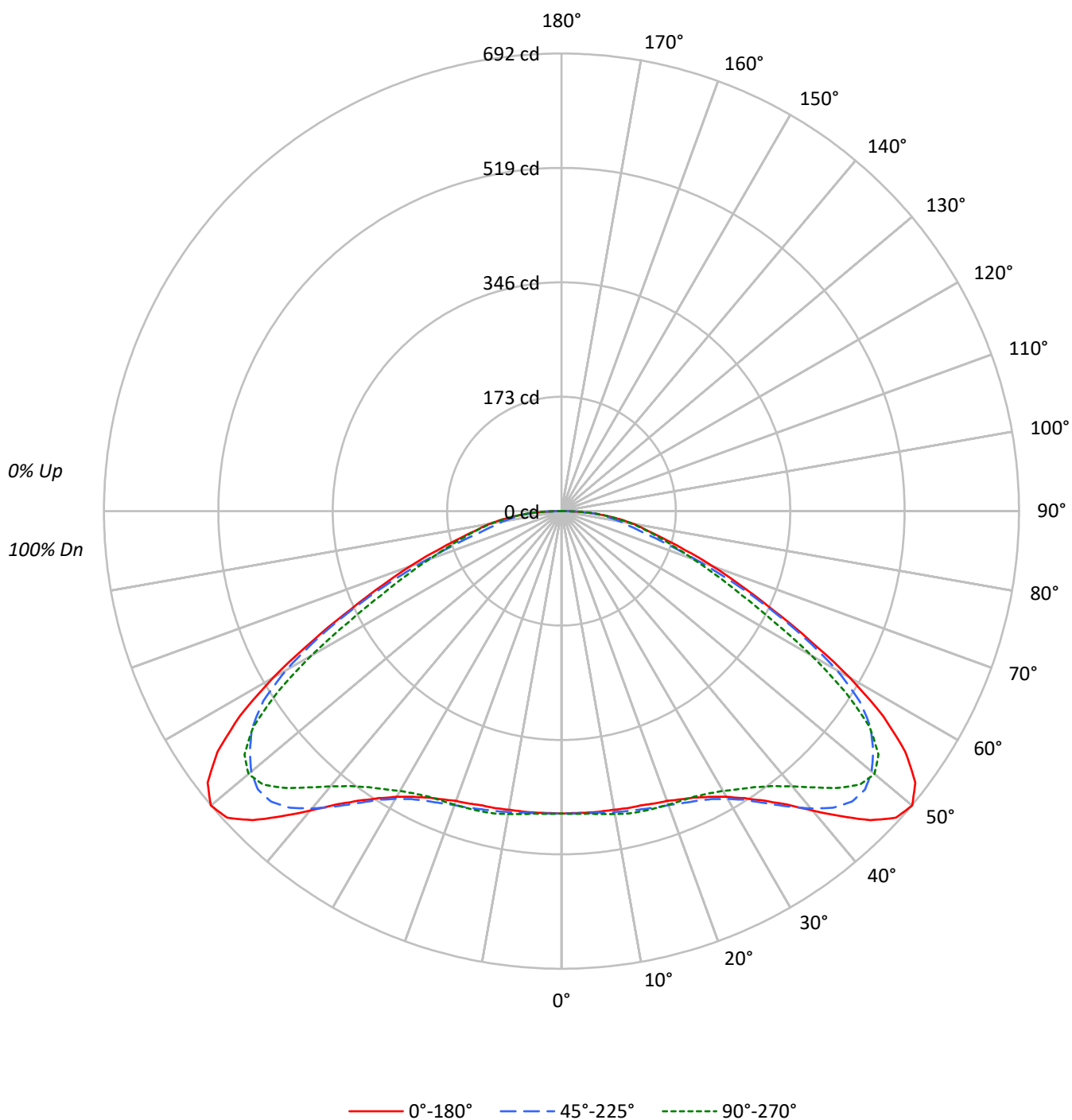
Lumens per Lamp: N/A
Luminaire Lumens: 2282.5 lumens
Efficiency: N/A
Efficacy: 136.7 lumens/watt
Spacing Criteria (0/90/45): 2.04 / 1.82 / 1.97
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 16.7
Input Voltage (V):
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.9
Total Harmonic Distortion (THDi): ≈20%
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			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	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°	615	615	615
5°	618	619	620
10°	626	631	636
15°	642	650	655
20°	668	677	676
25°	709	717	707
30°	775	780	759
35°	878	885	837
40°	1038	1031	954
45°	1257	1182	1126
50°	1449	1282	1294
55°	1490	1340	1335
60°	1354	1294	1175
65°	1120	1100	959
70°	956	861	833
75°	828	686	789
80°	858	695	830
85°	866	835	922

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 1491 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.9	1.9
10°-20°	132.3	5.8
20°-30°	223.5	9.8
30°-40°	336.5	14.7
40°-50°	478.5	21.0
50°-60°	513.6	22.5
60°-70°	334.7	14.7
70°-80°	160.9	7.0
80°-90°	58.6	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°	399.8	17.5
0°-40°	736.3	32.3
0°-60°	1728.4	75.7
0°-90°	2282.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2282.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	457	457	457	457	457	
5°	458	458	458	460	459	44
15°	461	463	467	470	470	131
25°	478	482	483	479	476	222
35°	534	545	539	521	509	339
45°	661	645	621	605	592	507
55°	635	619	571	554	569	556
65°	352	349	345	308	301	356
75°	159	151	132	150	152	175
85°	56	53	54	56	60	61
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	457.3	457.3	457.3	457.3	457.3
2.5°	456.9	457.3	457.6	458.0	458.0
5°	457.6	458.0	458.4	460.0	459.2
7.5°	458.0	458.4	459.6	462.0	462.0
10°	458.4	459.6	462.0	464.4	465.2
12.5°	460.0	461.2	464.4	467.5	468.3
15°	460.8	463.2	466.7	469.5	469.9
17.5°	463.6	465.9	469.9	471.1	471.1
20°	466.3	469.5	473.1	473.1	472.3
22.5°	471.5	475.0	477.8	475.4	473.9
25°	477.8	482.2	483.3	479.0	476.2
27.5°	486.9	492.4	490.8	484.9	481.4
30°	498.7	505.9	502.3	493.6	488.5
32.5°	514.6	523.3	517.3	506.3	498.4
35°	534.3	544.6	539.1	520.9	509.4
37.5°	558.8	569.5	562.8	539.5	524.0
40°	590.8	596.4	586.9	561.6	543.0
42.5°	625.6	622.8	608.2	584.9	566.7
45°	660.8	644.6	621.3	605.1	592.0
47.5°	686.1	656.0	622.8	614.5	612.2
50°	692.4	653.7	612.6	609.4	618.1
52.5°	674.6	641.0	594.0	588.5	604.3
55°	635.1	618.9	571.1	554.5	569.1
57.5°	577.0	575.8	534.7	505.1	509.0
60°	503.1	507.8	481.0	439.1	436.7
62.5°	423.3	426.0	414.2	370.7	362.4
65°	351.7	349.0	345.4	308.3	301.1
67.5°	292.8	284.5	279.0	256.5	252.9
70°	243.1	230.0	218.9	215.4	211.8
72.5°	196.8	187.3	169.5	179.4	179.0
75°	159.3	150.6	132.0	150.2	151.8
77.5°	130.4	124.5	106.7	123.3	128.4
80°	110.7	98.4	89.7	100.4	107.1
82.5°	84.6	75.1	73.1	77.5	83.8
85°	56.1	52.6	54.1	55.7	59.7
87.5°	28.5	30.4	32.8	35.6	37.5
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	14.7	16.5	15.1	16.8	17.1	13.8	15.6	14.2	15.9	16.2
	3H	15.8	17.4	16.2	17.8	18.1	14.9	16.5	15.3	16.9	17.2
	4H	16.2	17.7	16.6	18.1	18.4	15.4	16.9	15.8	17.3	17.6
	6H	16.6	18.0	17.0	18.3	18.7	15.8	17.3	16.2	17.6	18.0
	8H	16.7	18.1	17.1	18.5	18.9	16.0	17.4	16.5	17.8	18.2
	12H	16.9	18.2	17.3	18.5	19.0	16.2	17.5	16.6	17.9	18.3
4H	2H	15.1	16.6	15.5	17.0	17.4	14.4	15.9	14.8	16.2	16.6
	3H	16.4	17.7	16.8	18.1	18.5	15.7	17.0	16.1	17.4	17.8
	4H	16.9	18.1	17.3	18.5	18.9	16.3	17.4	16.7	17.8	18.3
	6H	17.4	18.4	17.8	18.8	19.3	16.8	17.9	17.3	18.3	18.7
	8H	17.6	18.6	18.1	19.0	19.5	17.1	18.1	17.6	18.5	19.0
	12H	17.8	18.7	18.3	19.1	19.6	17.3	18.2	17.8	18.7	19.1
8H	4H	17.1	18.0	17.5	18.5	18.9	16.5	17.4	16.9	17.9	18.3
	6H	17.7	18.5	18.2	18.9	19.4	17.2	18.0	17.7	18.5	18.9
	8H	18.0	18.7	18.5	19.2	19.7	17.5	18.2	18.0	18.7	19.2
	12H	18.3	18.9	18.8	19.4	19.9	17.9	18.5	18.4	19.0	19.6
12H	4H	17.1	18.0	17.6	18.4	18.9	16.5	17.4	17.0	17.8	18.3
	6H	17.7	18.4	18.2	18.9	19.4	17.2	18.0	17.8	18.4	19.0
	8H	18.1	18.7	18.6	19.2	19.8	17.6	18.3	18.2	18.8	19.3













(END OF REPORT)