

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: P1526890

Luminaire Tested: 24CGTX-40-A125-L850

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1526890
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-40-A125-L850
Description: CGTX with A125 Lens Option

Light Source:
Ballast/Driver: -

Summary

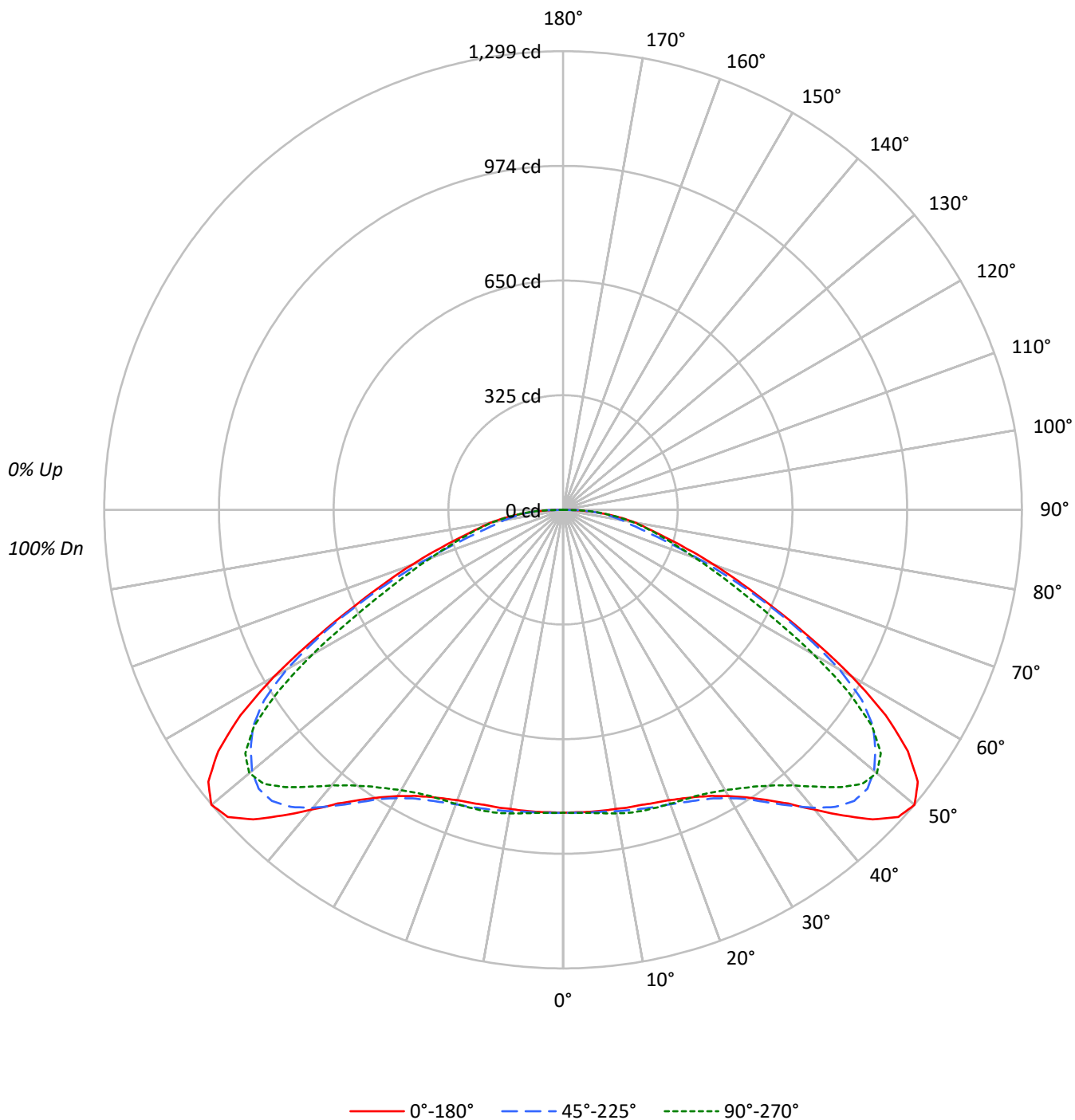
Lumens per Lamp: N/A
Luminaire Lumens: 4283.1 lumens
Efficiency: N/A
Efficacy: 141.4 lumens/watt
Spacing Criteria (0/90/45): 2.04 / 1.82 / 1.97
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 30.3
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°	1154	1154	1154
5°	1160	1162	1164
10°	1175	1184	1193
15°	1204	1220	1228
20°	1253	1271	1269
25°	1331	1347	1327
30°	1454	1464	1424
35°	1647	1661	1570
40°	1947	1934	1790
45°	2359	2218	2114
50°	2720	2406	2428
55°	2795	2514	2505
60°	2540	2429	2205
65°	2101	2064	1799
70°	1794	1616	1564
75°	1554	1288	1481
80°	1609	1304	1557
85°	1626	1568	1729

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 2798 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.3	1.9
10°-20°	248.3	5.8
20°-30°	419.5	9.8
30°-40°	631.5	14.7
40°-50°	897.9	21.0
50°-60°	963.7	22.5
60°-70°	628.0	14.7
70°-80°	302.0	7.0
80°-90°	109.9	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°	750.2	17.5
0°-40°	1381.6	32.3
0°-60°	3243.2	75.7
0°-90°	4283.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4283.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	858	858	858	858	858	
5°	859	860	860	863	862	82
15°	865	869	876	881	882	246
25°	897	905	907	899	894	417
35°	1003	1022	1012	977	956	636
45°	1240	1210	1166	1135	1111	952
55°	1192	1161	1072	1040	1068	1043
65°	660	655	648	578	565	668
75°	299	282	248	282	285	328
85°	105	99	102	105	112	115
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	858.0	858.0	858.0	858.0	858.0
2.5°	857.3	858.0	858.8	859.5	859.5
5°	858.8	859.5	860.2	863.2	861.7
7.5°	859.5	860.2	862.5	866.9	866.9
10°	860.2	862.5	866.9	871.4	872.9
12.5°	863.2	865.4	871.4	877.3	878.8
15°	864.7	869.1	875.8	881.0	881.8
17.5°	869.9	874.3	881.8	884.0	884.0
20°	875.1	881.0	887.7	887.7	886.2
22.5°	884.7	891.4	896.6	892.1	889.2
25°	896.6	904.7	907.0	898.8	893.6
27.5°	913.6	924.0	921.1	909.9	903.3
30°	935.9	949.2	942.6	926.2	916.6
32.5°	965.6	981.9	970.7	950.0	935.1
35°	1002.6	1021.9	1011.5	977.4	955.9
37.5°	1048.6	1068.6	1056.0	1012.3	983.4
40°	1108.7	1119.1	1101.3	1053.8	1018.9
42.5°	1173.9	1168.8	1141.3	1097.6	1063.4
45°	1239.9	1209.5	1165.8	1135.4	1110.9
47.5°	1287.4	1231.0	1168.8	1153.2	1148.7
50°	1299.3	1226.6	1149.5	1143.5	1159.9
52.5°	1265.9	1202.9	1114.6	1104.2	1133.9
55°	1191.7	1161.3	1071.6	1040.5	1067.9
57.5°	1082.7	1080.5	1003.4	947.8	955.2
60°	944.0	952.9	902.5	823.9	819.5
62.5°	794.2	799.4	777.2	695.6	680.0
65°	660.0	654.8	648.2	578.4	565.1
67.5°	549.5	533.9	523.6	481.3	474.6
70°	456.1	431.6	410.8	404.2	397.5
72.5°	369.3	351.5	318.1	336.7	335.9
75°	298.9	282.5	247.7	281.8	284.8
77.5°	244.7	233.6	200.2	231.4	241.0
80°	207.6	184.7	168.3	188.4	201.0
82.5°	158.7	140.9	137.2	145.4	157.2
85°	105.3	98.6	101.6	104.6	112.0
87.5°	53.4	57.1	61.6	66.7	70.5
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	16.9	18.7	17.3	19.0	19.3	16.0	17.8	16.3	18.1	18.4
	3H	18.0	19.6	18.4	19.9	20.3	17.1	18.7	17.5	19.1	19.4
	4H	18.4	19.9	18.8	20.3	20.6	17.6	19.1	18.0	19.5	19.8
	6H	18.7	20.2	19.2	20.5	20.9	18.0	19.4	18.4	19.8	20.2
	8H	18.9	20.3	19.3	20.7	21.0	18.2	19.6	18.6	20.0	20.4
	12H	19.0	20.3	19.5	20.7	21.1	18.4	19.7	18.8	20.1	20.5
4H	2H	17.3	18.8	17.7	19.2	19.5	16.5	18.1	16.9	18.4	18.8
	3H	18.6	19.9	19.0	20.3	20.7	17.9	19.1	18.3	19.5	19.9
	4H	19.1	20.2	19.5	20.7	21.1	18.4	19.6	18.9	20.0	20.5
	6H	19.6	20.6	20.0	21.0	21.5	19.0	20.0	19.5	20.5	20.9
	8H	19.8	20.8	20.3	21.2	21.7	19.3	20.2	19.7	20.7	21.1
	12H	20.0	20.9	20.5	21.3	21.8	19.5	20.4	20.0	20.9	21.3
8H	4H	19.2	20.2	19.7	20.6	21.1	18.7	19.6	19.1	20.1	20.5
	6H	19.9	20.7	20.3	21.1	21.6	19.4	20.2	19.9	20.6	21.1
	8H	20.1	20.9	20.7	21.4	21.9	19.7	20.4	20.2	20.9	21.4
	12H	20.4	21.1	20.9	21.6	22.1	20.1	20.7	20.6	21.2	21.8
12H	4H	19.3	20.1	19.8	20.6	21.1	18.7	19.6	19.2	20.0	20.5
	6H	19.9	20.6	20.4	21.1	21.6	19.4	20.2	19.9	20.6	21.1
	8H	20.3	20.9	20.8	21.4	21.9	19.8	20.5	20.3	21.0	21.5















(END OF REPORT)