

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: P1526762

Luminaire Tested: 14CGTX-42-A125-L830

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1526762
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2507-496-6)
Test Lab: INNOVATION CENTER
Issue Date: 8/24/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CGTX-42-A125-L830
Description: CGTX with A125 Lens Option

Light Source:
Ballast/Driver: -

Summary

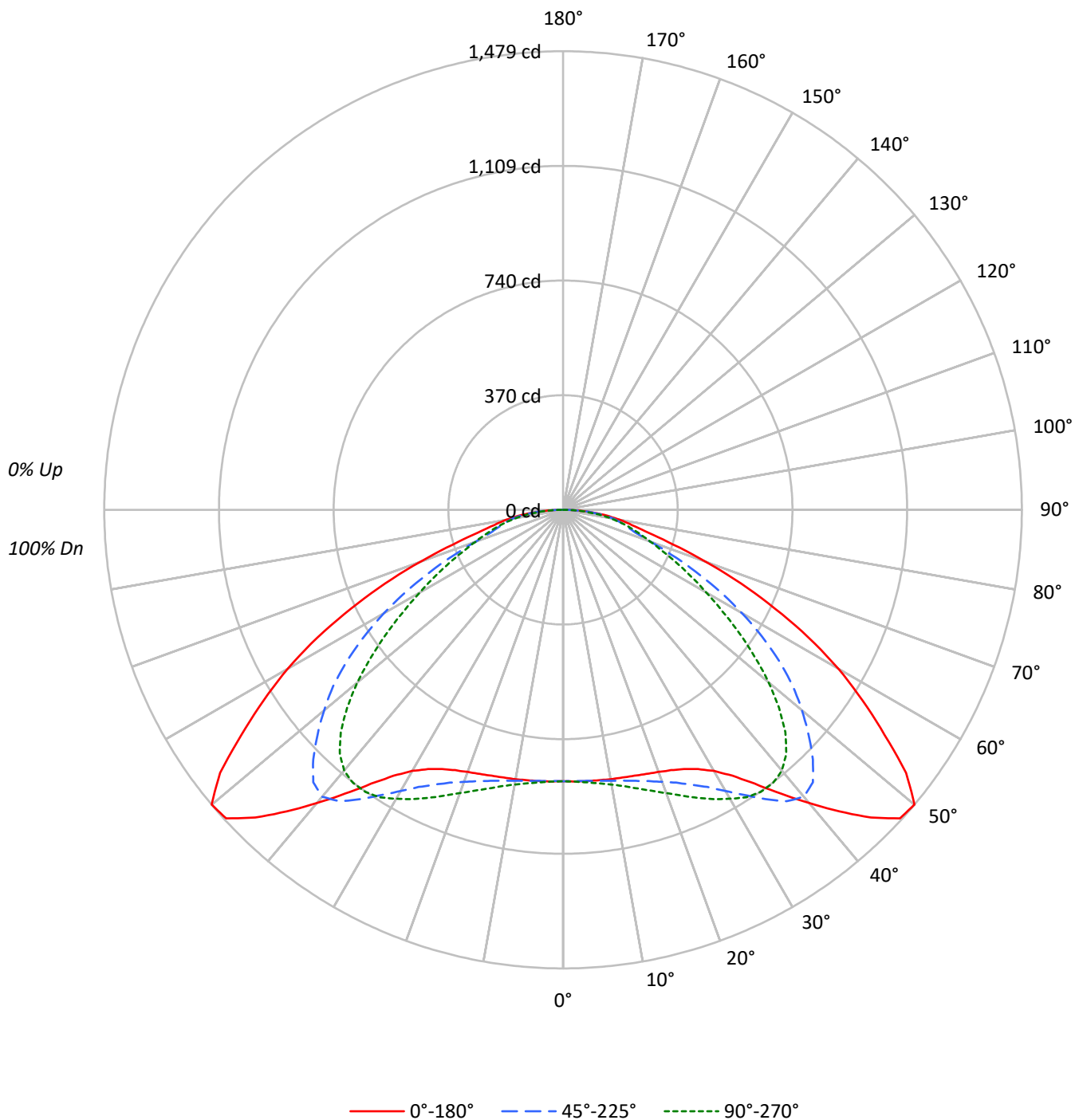
Lumens per Lamp: N/A
Luminaire Lumens: 4098.7 lumens
Efficiency: N/A
Efficacy: 129.3 lumens/watt
Spacing Criteria (0/90/45): 2.23 / 1.81 / 1.81
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 31.7
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	103	99	95	105	101	97	93	97	93	90		93	90	87		89	87	85		83
2	98	89	82	76	95	87	81	75	84	78	73		80	76	72		77	73	70		68
3	89	77	69	62	86	76	68	61	73	66	60		70	64	59		67	62	58		56
4	80	68	58	51	78	66	58	51	64	56	50		61	55	50		59	54	49		47
5	73	60	50	43	71	59	50	43	56	49	43		54	48	42		53	46	42		39
6	67	53	44	37	65	52	43	37	50	42	36		49	42	36		47	41	36		34
7	62	48	38	32	60	47	38	32	45	37	32		44	37	31		42	36	31		29
8	57	43	34	28	56	42	34	28	41	33	28		40	33	28		39	32	27		25
9	53	39	31	25	52	39	30	25	37	30	24		36	29	24		35	29	24		22
10	50	36	28	22	48	35	27	22	34	27	22		33	27	22		32	26	22		20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2355	2355	2355
5°	2373	2370	2383
10°	2410	2423	2458
15°	2474	2521	2592
20°	2576	2672	2783
25°	2738	2902	3043
30°	3020	3252	3343
35°	3541	3742	3648
40°	4334	4243	3856
45°	5338	4335	3855
50°	6191	4210	3621
55°	5939	3991	3256
60°	5518	3581	2868
65°	4806	3000	2569
70°	3845	2358	2358
75°	2950	2236	2341
80°	2895	2582	2383
85°	2908	2859	2334

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 50°
Luminance: 6191 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.2	2.1
10°-20°	258.3	6.3
20°-30°	454.7	11.1
30°-40°	704.3	17.2
40°-50°	897.3	21.9
50°-60°	816.4	19.9
60°-70°	529.4	12.9
70°-80°	257.5	6.3
80°-90°	96.5	2.4
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°	797.2	19.5
0°-40°	1501.6	36.6
0°-60°	3215.3	78.4
0°-90°	4098.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4098.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	875	875	875	875	875	
5°	878	879	877	879	882	84
15°	888	894	905	922	930	252
25°	922	941	977	1012	1025	430
35°	1078	1125	1139	1120	1110	687
45°	1403	1316	1139	1040	1013	1078
55°	1266	1110	851	733	694	1130
65°	755	669	471	408	404	747
75°	284	260	215	205	225	322
85°	94	103	93	85	76	102
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	875.1	875.1	875.1	875.1	875.1
2.5°	876.7	877.8	875.1	875.7	877.3
5°	878.3	879.4	877.3	878.9	882.1
7.5°	879.4	881.5	881.5	885.2	889.5
10°	882.1	884.2	886.8	894.3	899.6
12.5°	884.2	887.9	894.3	906.5	912.4
15°	887.9	893.8	904.9	922.0	930.5
17.5°	892.7	901.2	917.2	939.5	949.7
20°	899.6	910.8	933.2	959.8	972.0
22.5°	908.7	923.6	952.3	983.7	997.0
25°	922.0	941.1	977.3	1011.9	1024.7
27.5°	942.2	966.2	1007.7	1042.3	1051.9
30°	972.0	1001.8	1046.5	1070.5	1075.8
32.5°	1016.2	1054.5	1090.2	1098.2	1099.2
35°	1077.9	1124.8	1139.2	1120.5	1110.4
37.5°	1153.5	1205.7	1184.4	1129.1	1111.0
40°	1233.9	1276.5	1207.8	1122.1	1097.6
42.5°	1319.1	1317.0	1191.9	1091.8	1065.2
45°	1402.7	1316.4	1139.2	1039.6	1013.0
47.5°	1472.9	1276.5	1073.7	975.2	943.8
50°	1478.8	1224.3	1005.6	897.0	865.0
52.5°	1393.6	1172.7	933.7	816.0	779.3
55°	1265.9	1110.4	850.6	733.0	694.1
57.5°	1145.0	1029.0	760.2	647.3	609.0
60°	1025.2	924.1	665.4	564.3	532.9
62.5°	892.7	802.2	568.5	481.7	465.2
65°	754.8	668.6	471.1	408.3	403.5
67.5°	621.2	541.9	377.9	339.1	344.9
70°	488.7	428.0	299.7	290.6	299.7
72.5°	371.6	337.5	243.8	245.9	260.8
75°	283.7	259.8	215.1	204.9	225.2
77.5°	227.3	211.9	190.6	175.7	190.6
80°	186.8	183.1	166.6	149.0	153.8
82.5°	141.1	143.7	131.0	121.9	116.0
85°	94.2	102.7	92.6	84.6	75.6
87.5°	47.4	57.5	49.0	43.7	38.9
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	19.3	21.1	19.7	21.4	21.7	15.9	17.6	16.2	17.9	18.2
	3H	20.6	22.2	21.0	22.5	22.9	17.2	18.7	17.5	19.1	19.4
	4H	21.0	22.4	21.4	22.8	23.2	17.7	19.2	18.1	19.6	19.9
	6H	21.3	22.6	21.7	23.0	23.4	18.3	19.6	18.7	20.0	20.4
	8H	21.4	22.7	21.8	23.1	23.5	18.5	19.8	18.9	20.2	20.6
	12H	21.5	22.8	21.9	23.1	23.6	18.7	19.9	19.1	20.3	20.7
4H	2H	19.5	21.0	19.9	21.3	21.7	16.5	18.0	16.9	18.4	18.7
	3H	21.0	22.2	21.4	22.6	23.0	18.0	19.2	18.4	19.6	20.0
	4H	21.4	22.5	21.9	23.0	23.4	18.7	19.8	19.1	20.2	20.6
	6H	21.9	22.9	22.3	23.3	23.8	19.4	20.3	19.8	20.8	21.2
	8H	22.1	23.0	22.5	23.4	23.9	19.7	20.6	20.1	21.0	21.5
	12H	22.3	23.1	22.7	23.6	24.0	19.9	20.7	20.4	21.2	21.7
8H	4H	21.5	22.5	22.0	22.9	23.4	19.0	19.9	19.5	20.4	20.8
	6H	22.1	22.9	22.6	23.4	23.8	19.9	20.6	20.3	21.1	21.6
	8H	22.4	23.1	22.9	23.6	24.1	20.3	20.9	20.8	21.5	21.9
	12H	22.7	23.3	23.2	23.8	24.4	20.6	21.2	21.1	21.7	22.3
12H	4H	21.6	22.4	22.0	22.9	23.3	19.1	19.9	19.6	20.4	20.9
	6H	22.2	22.9	22.7	23.3	23.9	20.0	20.7	20.5	21.1	21.7
	8H	22.5	23.1	23.0	23.6	24.2	20.5	21.1	21.0	21.6	22.1













(END OF REPORT)