

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: P1526900

Luminaire Tested: 24CGTX-45-A125-L840

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1526900
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-45-A125-L840
Description: CGTX with A125 Lens Option

Light Source:
Ballast/Driver: -

Summary

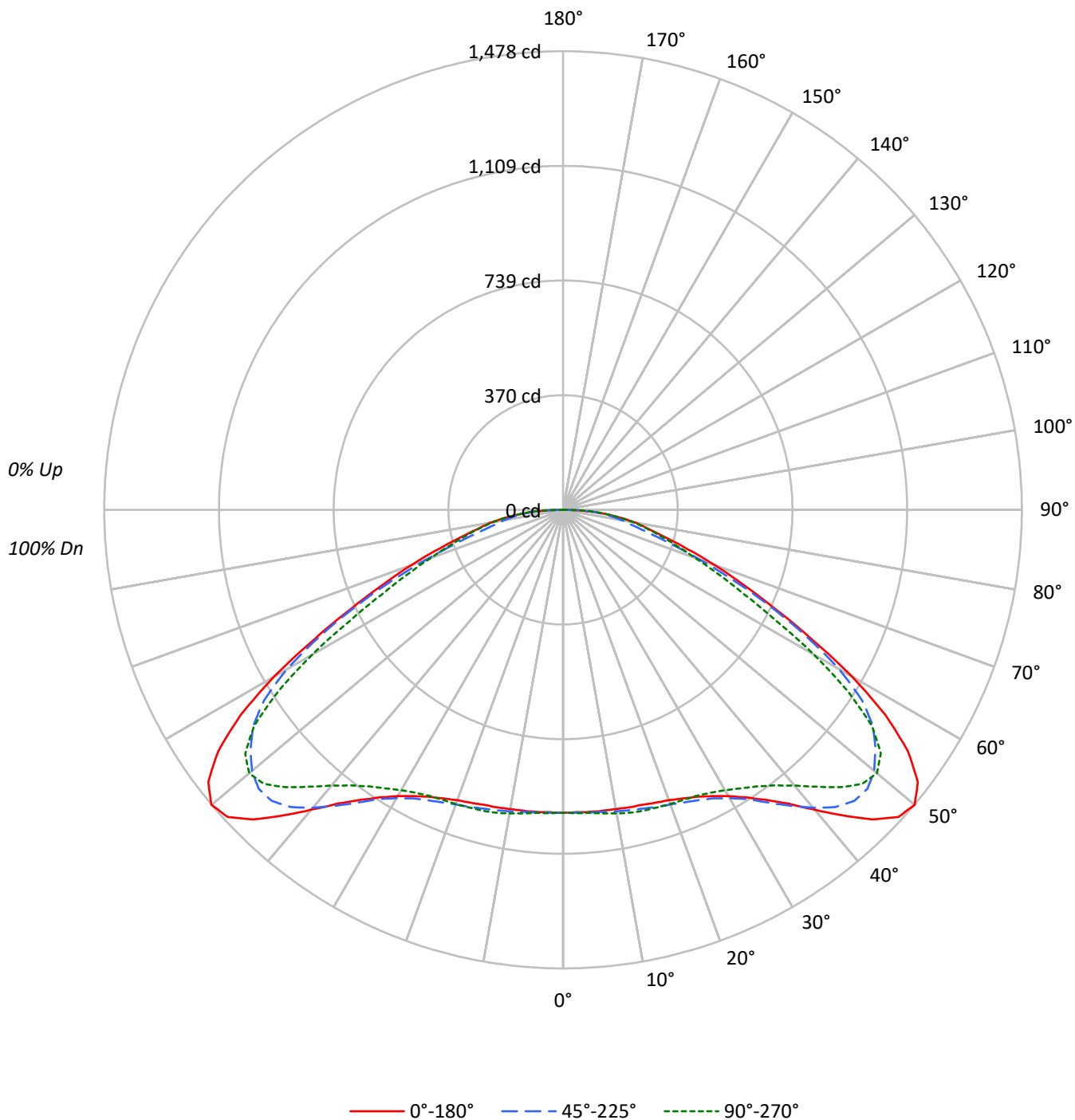
Lumens per Lamp: N/A
Luminaire Lumens: 4874.1 lumens
Efficiency: N/A
Efficacy: 136.9 lumens/watt
Spacing Criteria (0/90/45): 2.04 / 1.82 / 1.97
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 35.6
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				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°	1314	1314	1314
5°	1320	1322	1324
10°	1337	1348	1357
15°	1371	1388	1398
20°	1426	1446	1444
25°	1515	1532	1510
30°	1655	1666	1621
35°	1874	1891	1787
40°	2216	2201	2037
45°	2685	2524	2406
50°	3095	2738	2763
55°	3181	2860	2851
60°	2891	2764	2509
65°	2391	2348	2047
70°	2042	1839	1779
75°	1768	1465	1685
80°	1831	1485	1772
85°	1849	1785	1967

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 3184 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.7	1.9
10°-20°	282.6	5.8
20°-30°	477.4	9.8
30°-40°	718.6	14.7
40°-50°	1021.8	21.0
50°-60°	1096.6	22.5
60°-70°	714.7	14.7
70°-80°	343.6	7.1
80°-90°	125.1	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°	853.7	17.5
0°-40°	1572.3	32.3
0°-60°	3690.7	75.7
0°-90°	4874.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4874.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	976	976	976	976	976	
5°	977	978	979	982	981	93
15°	984	989	997	1003	1003	280
25°	1020	1030	1032	1023	1017	475
35°	1141	1163	1151	1112	1088	724
45°	1411	1376	1327	1292	1264	1083
55°	1356	1322	1219	1184	1215	1186
65°	751	745	738	658	643	760
75°	340	322	282	321	324	374
85°	120	112	116	119	127	130
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	976.4	976.4	976.4	976.4	976.4
2.5°	975.6	976.4	977.2	978.1	978.1
5°	977.2	978.1	978.9	982.3	980.6
7.5°	978.1	978.9	981.5	986.5	986.5
10°	978.9	981.5	986.5	991.6	993.3
12.5°	982.3	984.8	991.6	998.3	1000.0
15°	984.0	989.1	996.7	1002.6	1003.4
17.5°	989.9	995.0	1003.4	1005.9	1005.9
20°	995.8	1002.6	1010.2	1010.2	1008.5
22.5°	1006.8	1014.4	1020.3	1015.2	1011.8
25°	1020.3	1029.6	1032.1	1022.8	1016.9
27.5°	1039.7	1051.5	1048.1	1035.5	1027.9
30°	1065.0	1080.2	1072.6	1054.0	1043.1
32.5°	1098.8	1117.3	1104.7	1081.0	1064.2
35°	1141.0	1162.9	1151.1	1112.3	1087.8
37.5°	1193.3	1216.1	1201.7	1151.9	1119.0
40°	1261.6	1273.5	1253.2	1199.2	1159.5
42.5°	1335.9	1330.0	1298.8	1249.0	1210.2
45°	1411.0	1376.4	1326.6	1292.0	1264.2
47.5°	1465.0	1400.9	1330.0	1312.3	1307.2
50°	1478.5	1395.8	1308.1	1301.3	1319.9
52.5°	1440.5	1368.8	1268.4	1256.6	1290.3
55°	1356.2	1321.6	1219.4	1184.0	1215.2
57.5°	1232.1	1229.6	1141.8	1078.5	1087.0
60°	1074.3	1084.4	1027.0	937.6	932.5
62.5°	903.8	909.7	884.4	791.6	773.9
65°	751.1	745.2	737.6	658.2	643.1
67.5°	625.3	607.6	595.8	547.7	540.1
70°	519.0	491.2	467.5	459.9	452.3
72.5°	420.3	400.0	362.0	383.1	382.3
75°	340.1	321.5	281.9	320.7	324.1
77.5°	278.5	265.8	227.9	263.3	274.3
80°	236.3	210.1	191.6	214.4	228.7
82.5°	180.6	160.3	156.1	165.4	178.9
85°	119.8	112.2	115.6	119.0	127.4
87.5°	60.8	65.0	70.0	76.0	80.2
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	17.3	19.1	17.7	19.4	19.8	16.4	18.2	16.8	18.5	18.8
	3H	18.4	20.1	18.8	20.4	20.7	17.6	19.2	17.9	19.5	19.9
	4H	18.8	20.4	19.2	20.7	21.1	18.0	19.6	18.4	19.9	20.3
	6H	19.2	20.6	19.6	21.0	21.4	18.5	19.9	18.9	20.3	20.6
	8H	19.4	20.7	19.8	21.1	21.5	18.7	20.0	19.1	20.4	20.8
	12H	19.5	20.8	19.9	21.2	21.6	18.8	20.1	19.3	20.5	21.0
4H	2H	17.8	19.3	18.1	19.6	20.0	17.0	18.5	17.4	18.9	19.2
	3H	19.0	20.3	19.4	20.7	21.1	18.3	19.6	18.7	20.0	20.4
	4H	19.5	20.7	20.0	21.1	21.5	18.9	20.1	19.3	20.5	20.9
	6H	20.0	21.0	20.5	21.5	21.9	19.5	20.5	19.9	20.9	21.4
	8H	20.2	21.2	20.7	21.6	22.1	19.7	20.7	20.2	21.1	21.6
	12H	20.4	21.3	20.9	21.8	22.2	20.0	20.8	20.5	21.3	21.8
8H	4H	19.7	20.7	20.2	21.1	21.6	19.1	20.1	19.6	20.5	21.0
	6H	20.3	21.1	20.8	21.6	22.1	19.8	20.6	20.3	21.1	21.6
	8H	20.6	21.3	21.1	21.8	22.3	20.2	20.9	20.7	21.4	21.9
	12H	20.9	21.5	21.4	22.0	22.6	20.5	21.2	21.0	21.6	22.2
12H	4H	19.7	20.6	20.2	21.1	21.5	19.1	20.0	19.6	20.5	20.9
	6H	20.4	21.1	20.9	21.5	22.1	19.9	20.6	20.4	21.1	21.6
	8H	20.7	21.3	21.2	21.8	22.4	20.3	20.9	20.8	21.4	22.0















(END OF REPORT)