

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: P1526901

Luminaire Tested: 24CGTX-45-A125-L850

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1526901
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-L850
Description: CGTX with A125 Lens Option

Light Source:
Ballast/Driver: -

Summary

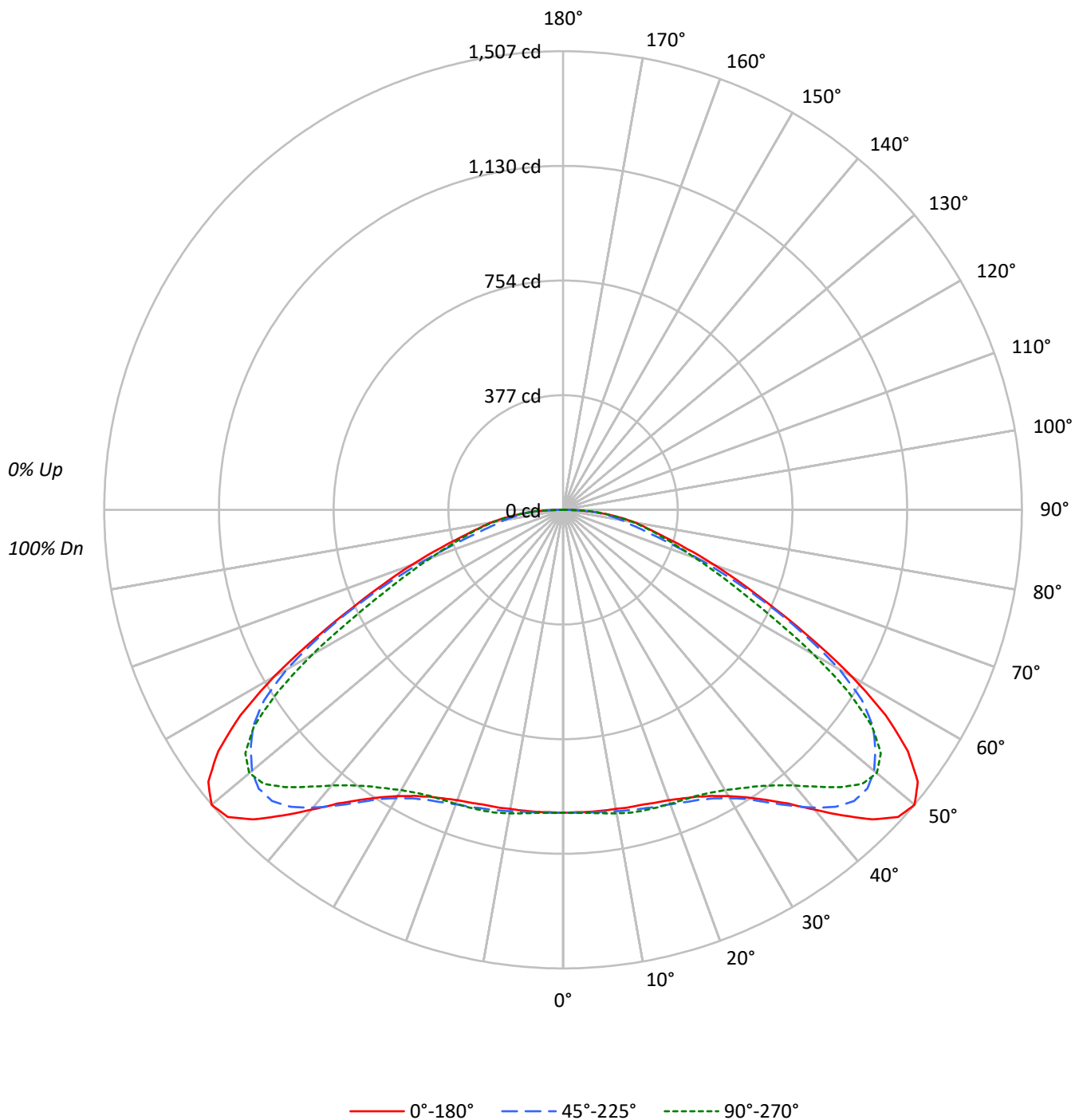
Lumens per Lamp: N/A
Luminaire Lumens: 4968.7 lumens
Efficiency: N/A
Efficacy: 139.6 lumens/watt
Spacing Criteria (0/90/45): 2.04 / 1.82 / 1.97
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	1339	1339	1339
5°	1345	1348	1350
10°	1363	1374	1383
15°	1397	1415	1425
20°	1453	1475	1472
25°	1544	1562	1539
30°	1687	1699	1652
35°	1910	1927	1821
40°	2259	2244	2076
45°	2737	2573	2452
50°	3155	2791	2816
55°	3243	2916	2906
60°	2947	2817	2558
65°	2438	2394	2087
70°	2081	1875	1814
75°	1802	1494	1718
80°	1867	1513	1806
85°	1886	1820	2005

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 3246 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.5	1.9
10°-20°	288.1	5.8
20°-30°	486.6	9.8
30°-40°	732.6	14.7
40°-50°	1041.7	21.0
50°-60°	1117.9	22.5
60°-70°	728.5	14.7
70°-80°	350.3	7.1
80°-90°	127.5	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°	870.2	17.5
0°-40°	1602.8	32.3
0°-60°	3762.4	75.7
0°-90°	4968.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4968.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	995	995	995	995	995	
5°	996	997	998	1001	1000	95
15°	1003	1008	1016	1022	1023	285
25°	1040	1050	1052	1043	1037	484
35°	1163	1186	1173	1134	1109	738
45°	1438	1403	1352	1317	1289	1104
55°	1382	1347	1243	1207	1239	1209
65°	766	760	752	671	656	775
75°	347	328	287	327	330	381
85°	122	114	118	121	130	133
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	995.4	995.4	995.4	995.4	995.4
2.5°	994.5	995.4	996.2	997.1	997.1
5°	996.2	997.1	997.9	1001.4	999.7
7.5°	997.1	997.9	1000.5	1005.7	1005.7
10°	997.9	1000.5	1005.7	1010.8	1012.6
12.5°	1001.4	1004.0	1010.8	1017.7	1019.4
15°	1003.1	1008.3	1016.0	1022.0	1022.9
17.5°	1009.1	1014.3	1022.9	1025.5	1025.5
20°	1015.1	1022.0	1029.8	1029.8	1028.1
22.5°	1026.3	1034.1	1040.1	1034.9	1031.5
25°	1040.1	1049.6	1052.1	1042.7	1036.7
27.5°	1059.9	1071.9	1068.5	1055.6	1047.8
30°	1085.7	1101.2	1093.4	1074.5	1063.3
32.5°	1120.1	1139.0	1126.1	1102.0	1084.8
35°	1163.1	1185.5	1173.4	1133.9	1108.9
37.5°	1216.5	1239.7	1225.1	1174.3	1140.7
40°	1286.1	1298.2	1277.5	1222.5	1182.0
42.5°	1361.8	1355.8	1324.0	1273.2	1233.7
45°	1438.4	1403.1	1352.4	1317.1	1288.7
47.5°	1493.5	1428.1	1355.8	1337.8	1332.6
50°	1507.2	1422.9	1333.5	1326.6	1345.5
52.5°	1468.5	1395.4	1293.0	1281.0	1315.4
55°	1382.5	1347.2	1243.1	1207.0	1238.8
57.5°	1256.0	1253.4	1164.0	1099.5	1108.1
60°	1095.2	1105.5	1047.0	955.8	950.6
62.5°	921.4	927.4	901.6	807.0	788.9
65°	765.7	759.6	751.9	671.0	655.5
67.5°	637.5	619.4	607.4	558.3	550.6
70°	529.1	500.7	476.6	468.9	461.1
72.5°	428.4	407.8	369.1	390.6	389.7
75°	346.7	327.8	287.3	326.9	330.4
77.5°	283.9	271.0	232.3	268.4	279.6
80°	240.9	214.2	195.3	218.5	233.1
82.5°	184.1	163.5	159.2	168.6	182.4
85°	122.2	114.4	117.9	121.3	129.9
87.5°	61.9	66.2	71.4	77.4	81.7
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	17.4	19.2	17.8	19.5	19.8	16.5	18.3	16.9	18.6	18.9
	3H	18.5	20.1	18.9	20.5	20.8	17.6	19.3	18.0	19.6	19.9
	4H	18.9	20.4	19.3	20.8	21.2	18.1	19.6	18.5	20.0	20.3
	6H	19.3	20.7	19.7	21.0	21.4	18.5	20.0	18.9	20.3	20.7
	8H	19.4	20.8	19.8	21.2	21.6	18.7	20.1	19.2	20.5	20.9
	12H	19.6	20.9	20.0	21.2	21.7	18.9	20.2	19.3	20.6	21.0
4H	2H	17.8	19.3	18.2	19.7	20.1	17.1	18.6	17.5	18.9	19.3
	3H	19.1	20.4	19.5	20.8	21.2	18.4	19.7	18.8	20.1	20.5
	4H	19.6	20.8	20.0	21.2	21.6	19.0	20.1	19.4	20.5	21.0
	6H	20.1	21.1	20.5	21.6	22.0	19.5	20.6	20.0	21.0	21.4
	8H	20.3	21.3	20.8	21.7	22.2	19.8	20.8	20.3	21.2	21.7
	12H	20.5	21.4	21.0	21.8	22.3	20.0	20.9	20.5	21.4	21.8
8H	4H	19.8	20.7	20.2	21.2	21.6	19.2	20.1	19.6	20.6	21.0
	6H	20.4	21.2	20.9	21.7	22.1	19.9	20.7	20.4	21.2	21.6
	8H	20.7	21.4	21.2	21.9	22.4	20.2	20.9	20.7	21.5	21.9
	12H	21.0	21.6	21.5	22.1	22.6	20.6	21.2	21.1	21.7	22.3
12H	4H	19.8	20.7	20.3	21.1	21.6	19.2	20.1	19.7	20.5	21.0
	6H	20.4	21.2	20.9	21.6	22.1	19.9	20.7	20.5	21.1	21.7
	8H	20.8	21.4	21.3	21.9	22.5	20.4	21.0	20.9	21.5	22.0















(END OF REPORT)