

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: P1526908

Luminaire Tested: 24CGTX-45HE-A125-L940

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1526908
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-45HE-A125-L940
Description: CGTX with A125 Lens Option

Light Source:
Ballast/Driver: -

Summary

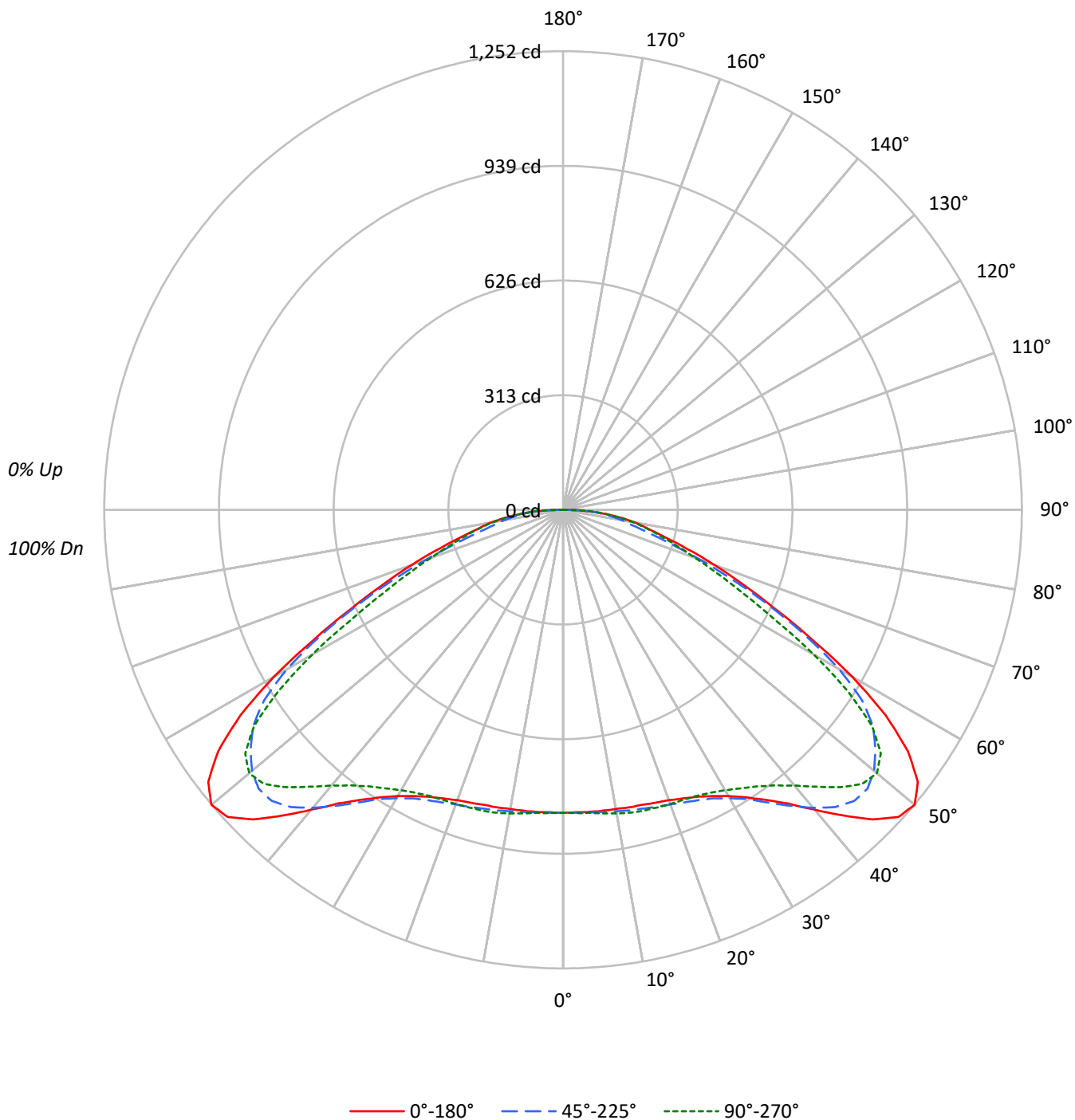
Lumens per Lamp: N/A
Luminaire Lumens: 4128.7 lumens
Efficiency: N/A
Efficacy: 119.0 lumens/watt
Spacing Criteria (0/90/45): 2.04 / 1.82 / 1.97
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 34.7
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	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°	1113	1113	1113
5°	1118	1120	1122
10°	1133	1142	1150
15°	1161	1176	1184
20°	1208	1225	1223
25°	1283	1298	1279
30°	1402	1412	1373
35°	1588	1602	1514
40°	1877	1865	1725
45°	2274	2138	2038
50°	2622	2319	2340
55°	2695	2423	2415
60°	2449	2341	2126
65°	2025	1989	1734
70°	1729	1558	1507
75°	1498	1241	1427
80°	1551	1258	1501
85°	1567	1511	1666

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 2697 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.4	1.9
10°-20°	239.4	5.8
20°-30°	404.4	9.8
30°-40°	608.7	14.7
40°-50°	865.6	21.0
50°-60°	928.9	22.5
60°-70°	605.4	14.7
70°-80°	291.1	7.0
80°-90°	105.9	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°	723.1	17.5
0°-40°	1331.8	32.3
0°-60°	3126.3	75.7
0°-90°	4128.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4128.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	827	827	827	827	827	
5°	828	828	829	832	831	79
15°	834	838	844	849	850	237
25°	864	872	874	866	861	402
35°	966	985	975	942	922	613
45°	1195	1166	1124	1094	1071	918
55°	1149	1120	1033	1003	1029	1005
65°	636	631	625	558	545	644
75°	288	272	239	272	274	316
85°	102	95	98	101	108	111
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	827.1	827.1	827.1	827.1	827.1
2.5°	826.4	827.1	827.8	828.5	828.5
5°	827.8	828.5	829.2	832.1	830.7
7.5°	828.5	829.2	831.4	835.7	835.7
10°	829.2	831.4	835.7	840.0	841.4
12.5°	832.1	834.2	840.0	845.7	847.1
15°	833.5	837.8	844.2	849.2	850.0
17.5°	838.5	842.8	850.0	852.1	852.1
20°	843.5	849.2	855.7	855.7	854.3
22.5°	852.8	859.3	864.3	860.0	857.1
25°	864.3	872.1	874.3	866.4	861.4
27.5°	880.7	890.7	887.9	877.1	870.7
30°	902.1	915.0	908.6	892.9	883.6
32.5°	930.7	946.5	935.7	915.7	901.4
35°	966.5	985.1	975.1	942.2	921.5
37.5°	1010.8	1030.1	1018.0	975.8	947.9
40°	1068.7	1078.7	1061.6	1015.8	982.2
42.5°	1131.6	1126.6	1100.2	1058.0	1025.1
45°	1195.2	1165.9	1123.8	1094.4	1070.9
47.5°	1241.0	1186.7	1126.6	1111.6	1107.3
50°	1252.4	1182.4	1108.0	1102.3	1118.0
52.5°	1220.3	1159.5	1074.4	1064.4	1093.0
55°	1148.8	1119.5	1033.0	1002.9	1029.4
57.5°	1043.7	1041.5	967.2	913.6	920.7
60°	910.0	918.6	870.0	794.2	789.9
62.5°	765.6	770.6	749.2	670.5	655.5
65°	636.2	631.2	624.8	557.6	544.7
67.5°	529.7	514.7	504.7	463.9	457.5
70°	439.6	416.0	396.0	389.6	383.2
72.5°	356.0	338.8	306.7	324.5	323.8
75°	288.1	272.4	238.8	271.6	274.5
77.5°	235.9	225.2	193.0	223.0	232.3
80°	200.2	178.0	162.3	181.6	193.7
82.5°	153.0	135.8	132.2	140.1	151.5
85°	101.5	95.1	97.9	100.8	107.9
87.5°	51.5	55.0	59.3	64.3	67.9
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	16.8	18.5	17.1	18.9	19.2	15.9	17.6	16.2	18.0	18.3
	3H	17.9	19.5	18.2	19.8	20.2	17.0	18.6	17.4	18.9	19.3
	4H	18.3	19.8	18.7	20.1	20.5	17.5	19.0	17.9	19.3	19.7
	6H	18.6	20.0	19.0	20.4	20.8	17.9	19.3	18.3	19.7	20.1
	8H	18.8	20.1	19.2	20.5	20.9	18.1	19.4	18.5	19.8	20.2
	12H	18.9	20.2	19.3	20.6	21.0	18.3	19.6	18.7	20.0	20.4
4H	2H	17.2	18.7	17.6	19.0	19.4	16.4	17.9	16.8	18.3	18.7
	3H	18.5	19.7	18.9	20.1	20.5	17.7	19.0	18.1	19.4	19.8
	4H	19.0	20.1	19.4	20.5	21.0	18.3	19.5	18.7	19.9	20.3
	6H	19.5	20.5	19.9	20.9	21.4	18.9	19.9	19.3	20.4	20.8
	8H	19.7	20.6	20.1	21.1	21.5	19.2	20.1	19.6	20.6	21.0
	12H	19.9	20.7	20.3	21.2	21.7	19.4	20.3	19.9	20.7	21.2
8H	4H	19.1	20.1	19.6	20.5	21.0	18.5	19.5	19.0	19.9	20.4
	6H	19.7	20.5	20.2	21.0	21.5	19.2	20.0	19.7	20.5	21.0
	8H	20.0	20.7	20.5	21.2	21.7	19.6	20.3	20.1	20.8	21.3
	12H	20.3	21.0	20.8	21.4	22.0	19.9	20.6	20.4	21.1	21.6
12H	4H	19.2	20.0	19.6	20.5	21.0	18.6	19.4	19.0	19.9	20.4
	6H	19.8	20.5	20.3	21.0	21.5	19.3	20.0	19.8	20.5	21.0
	8H	20.1	20.8	20.6	21.3	21.8	19.7	20.3	20.2	20.8	21.4













(END OF REPORT)