

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: P1527347

Luminaire Tested: 24CGSB-45-A125-L850

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1527347
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: 24CGSB-45-A125-L850
Description: CGTX with A125 Lens Option

Light Source:
Ballast/Driver: -

Summary

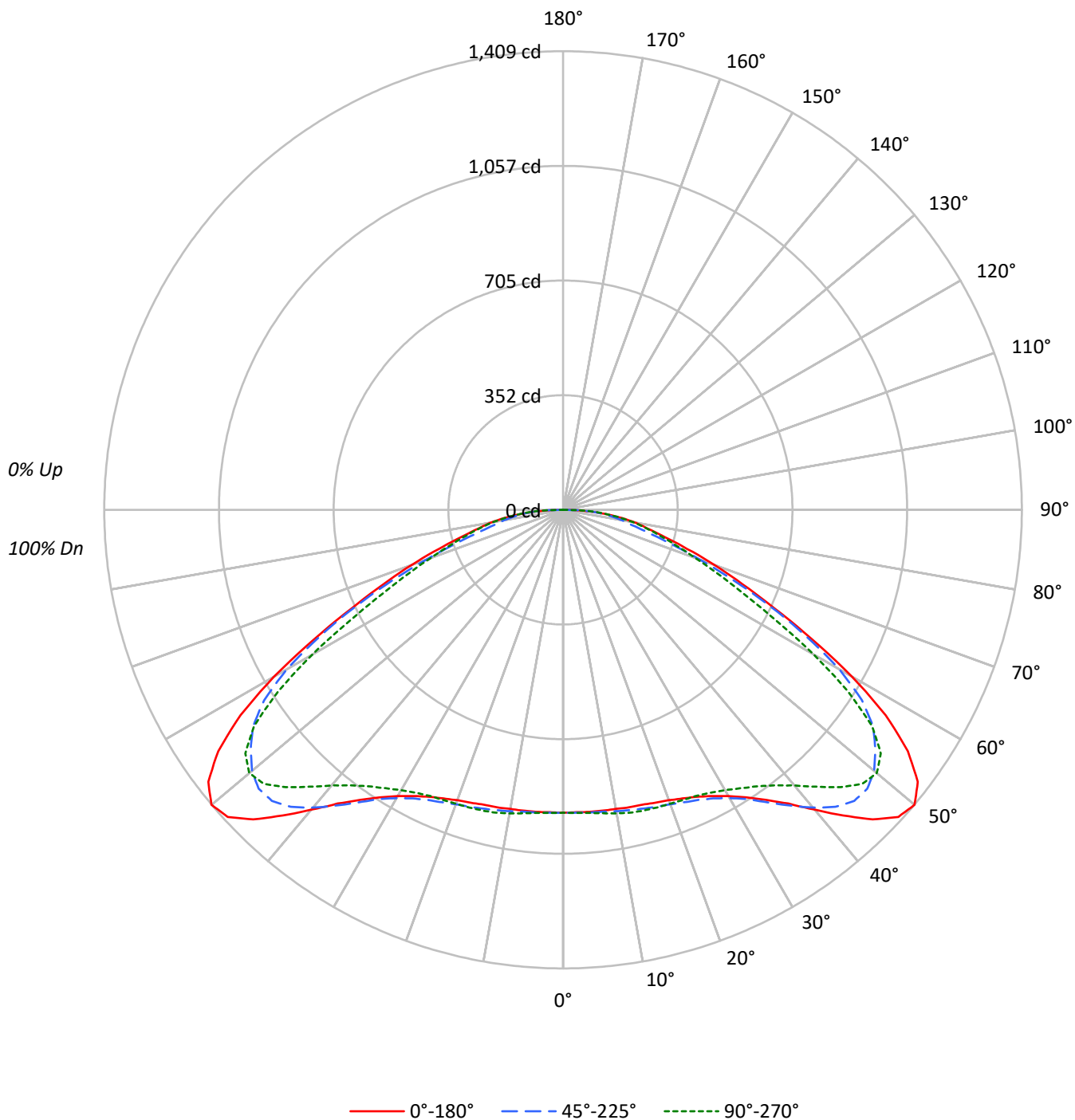
Lumens per Lamp: N/A
Luminaire Lumens: 4645.7 lumens
Efficiency: N/A
Efficacy: 131.2 lumens/watt
Spacing Criteria (0/90/45): 2.04 / 1.82 / 1.97
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 35.4
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							
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°	1252	1252	1252
5°	1258	1260	1262
10°	1275	1285	1293
15°	1306	1323	1332
20°	1359	1379	1376
25°	1444	1460	1439
30°	1577	1588	1545
35°	1786	1802	1703
40°	2112	2098	1941
45°	2559	2406	2293
50°	2950	2610	2633
55°	3032	2727	2717
60°	2756	2634	2392
65°	2279	2238	1951
70°	1946	1753	1696
75°	1685	1397	1606
80°	1745	1415	1689
85°	1763	1701	1876

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 3035 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.3	1.9
10°-20°	269.4	5.8
20°-30°	455.0	9.8
30°-40°	684.9	14.7
40°-50°	973.9	21.0
50°-60°	1045.2	22.5
60°-70°	681.2	14.7
70°-80°	327.5	7.1
80°-90°	119.2	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°	813.7	17.5
0°-40°	1498.6	32.3
0°-60°	3517.8	75.7
0°-90°	4645.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4645.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	931	931	931	931	931	
5°	932	932	933	936	935	89
15°	938	943	950	956	956	267
25°	972	981	984	975	969	453
35°	1088	1108	1097	1060	1037	690
45°	1345	1312	1264	1232	1205	1032
55°	1293	1260	1162	1128	1158	1131
65°	716	710	703	627	613	724
75°	324	306	269	306	309	356
85°	114	107	110	113	122	124
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	930.7	930.7	930.7	930.7	930.7
2.5°	929.8	930.7	931.5	932.3	932.3
5°	931.5	932.3	933.1	936.3	934.7
7.5°	932.3	933.1	935.5	940.3	940.3
10°	933.1	935.5	940.3	945.1	946.7
12.5°	936.3	938.7	945.1	951.6	953.2
15°	937.9	942.7	950.0	955.6	956.4
17.5°	943.5	948.3	956.4	958.8	958.8
20°	949.2	955.6	962.8	962.8	961.2
22.5°	959.6	966.8	972.5	967.7	964.4
25°	972.5	981.3	983.7	974.9	969.3
27.5°	991.0	1002.2	999.0	987.0	979.7
30°	1015.1	1029.6	1022.3	1004.7	994.2
32.5°	1047.3	1065.0	1052.9	1030.4	1014.3
35°	1087.5	1108.4	1097.2	1060.2	1036.8
37.5°	1137.4	1159.1	1145.4	1098.0	1066.6
40°	1202.5	1213.8	1194.5	1143.0	1105.2
42.5°	1273.3	1267.7	1237.9	1190.5	1153.5
45°	1344.9	1311.9	1264.5	1231.5	1204.9
47.5°	1396.4	1335.2	1267.7	1250.8	1246.0
50°	1409.2	1330.4	1246.8	1240.3	1258.0
52.5°	1373.1	1304.7	1209.0	1197.7	1229.9
55°	1292.6	1259.6	1162.3	1128.5	1158.3
57.5°	1174.4	1172.0	1088.3	1028.0	1036.0
60°	1024.0	1033.6	978.9	893.7	888.8
62.5°	861.5	867.1	843.0	754.5	737.6
65°	715.9	710.3	703.0	627.4	612.9
67.5°	596.0	579.1	567.9	522.0	514.8
70°	494.7	468.1	445.6	438.4	431.1
72.5°	400.6	381.3	345.1	365.2	364.4
75°	324.2	306.5	268.7	305.7	308.9
77.5°	265.4	253.4	217.2	251.0	261.4
80°	225.2	200.3	182.6	204.3	218.0
82.5°	172.1	152.8	148.8	157.7	170.5
85°	114.2	107.0	110.2	113.4	121.5
87.5°	57.9	61.9	66.8	72.4	76.4
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	17.2	19.0	17.5	19.3	19.6	16.3	18.0	16.6	18.4	18.7
	3H	18.3	19.9	18.7	20.2	20.6	17.4	19.0	17.8	19.3	19.7
	4H	18.7	20.2	19.1	20.5	20.9	17.9	19.4	18.3	19.7	20.1
	6H	19.0	20.4	19.4	20.8	21.2	18.3	19.7	18.7	20.1	20.5
	8H	19.2	20.5	19.6	20.9	21.3	18.5	19.9	18.9	20.2	20.6
	12H	19.3	20.6	19.7	21.0	21.4	18.7	20.0	19.1	20.4	20.8
4H	2H	17.6	19.1	18.0	19.5	19.8	16.8	18.4	17.2	18.7	19.1
	3H	18.9	20.1	19.3	20.5	20.9	18.1	19.4	18.6	19.8	20.2
	4H	19.4	20.5	19.8	20.9	21.4	18.7	19.9	19.2	20.3	20.7
	6H	19.9	20.9	20.3	21.3	21.8	19.3	20.3	19.8	20.8	21.2
	8H	20.1	21.0	20.5	21.5	21.9	19.6	20.5	20.0	21.0	21.4
	12H	20.3	21.1	20.8	21.6	22.1	19.8	20.7	20.3	21.1	21.6
8H	4H	19.5	20.5	20.0	20.9	21.4	18.9	19.9	19.4	20.3	20.8
	6H	20.1	20.9	20.6	21.4	21.9	19.6	20.4	20.1	20.9	21.4
	8H	20.4	21.2	20.9	21.7	22.1	20.0	20.7	20.5	21.2	21.7
	12H	20.7	21.4	21.2	21.9	22.4	20.4	21.0	20.9	21.5	22.0
12H	4H	19.6	20.4	20.0	20.9	21.4	19.0	19.8	19.5	20.3	20.8
	6H	20.2	20.9	20.7	21.4	21.9	19.7	20.4	20.2	20.9	21.4
	8H	20.5	21.2	21.0	21.7	22.2	20.1	20.8	20.6	21.2	21.8















(END OF REPORT)