

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: P1527350

Luminaire Tested: 24CGSB-45-A125-L940

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1527350
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-L940
Description: CGTX with A125 Lens Option

Light Source:
Ballast/Driver: -

Summary

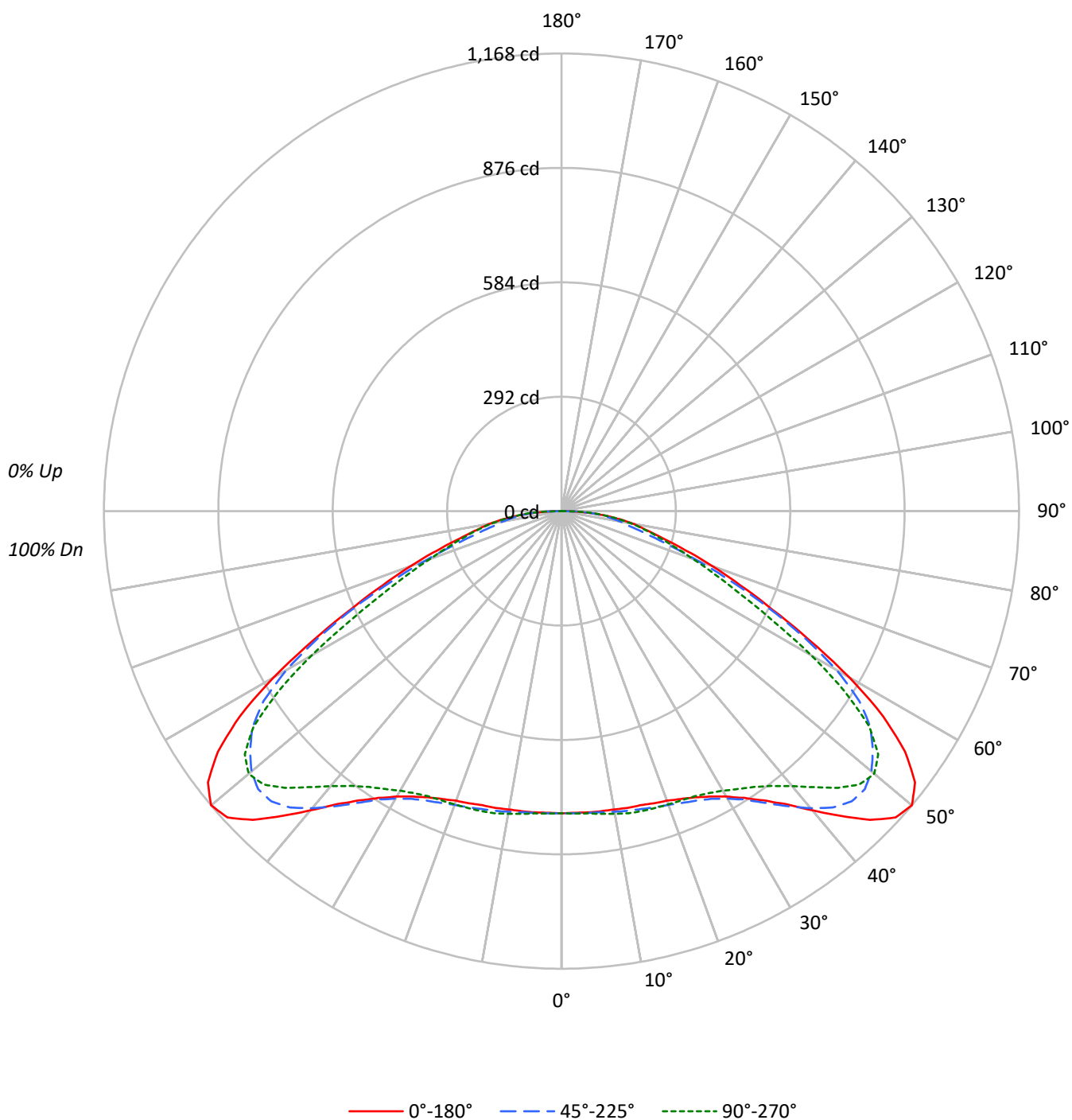
Lumens per Lamp: N/A
Luminaire Lumens: 3849.3 lumens
Efficiency: N/A
Efficacy: 108.7 lumens/watt
Spacing Criteria (0/90/45): 2.04 / 1.82 / 1.97
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1527350

CATALOG NUMBER: 24CGSB-45-A125-L940

Luminous Intensity Polar Plot





TEST NUMBER: P1527350

CATALOG NUMBER: 24CGSB-45-A125-L940

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°	1038	1038	1038
5°	1042	1044	1046
10°	1056	1064	1072
15°	1082	1096	1104
20°	1126	1142	1140
25°	1196	1210	1192
30°	1307	1316	1280
35°	1480	1493	1411
40°	1750	1738	1608
45°	2120	1994	1900
50°	2444	2162	2182
55°	2512	2259	2251
60°	2283	2183	1982
65°	1889	1855	1617
70°	1613	1452	1405
75°	1396	1157	1330
80°	1446	1172	1399
85°	1460	1409	1553

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 2515 cd/sqm

TEST NUMBER: P1527350

CATALOG NUMBER: 24CGSB-45-A125-L940

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.0	1.9
10°-20°	223.2	5.8
20°-30°	377.0	9.8
30°-40°	567.5	14.7
40°-50°	807.0	21.0
50°-60°	866.1	22.5
60°-70°	564.4	14.7
70°-80°	271.4	7.0
80°-90°	98.8	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°	674.2	17.5
0°-40°	1241.7	32.3
0°-60°	2914.7	75.7
0°-90°	3849.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3849.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	771	771	771	771	771	
5°	772	772	773	776	774	74
15°	777	781	787	792	792	221
25°	806	813	815	808	803	375
35°	901	918	909	878	859	572
45°	1114	1087	1048	1020	998	855
55°	1071	1044	963	935	960	937
65°	593	588	582	520	508	600
75°	269	254	223	253	256	295
85°	95	89	91	94	101	103
90°	0	0	0	0	0	

TEST NUMBER: P1527350

CATALOG NUMBER: 24CGSB-45-A125-L940

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	771.1	771.1	771.1	771.1	771.1
2.5°	770.4	771.1	771.8	772.4	772.4
5°	771.8	772.4	773.1	775.8	774.4
7.5°	772.4	773.1	775.1	779.1	779.1
10°	773.1	775.1	779.1	783.1	784.4
12.5°	775.8	777.8	783.1	788.4	789.8
15°	777.1	781.1	787.1	791.8	792.4
17.5°	781.8	785.8	792.4	794.4	794.4
20°	786.4	791.8	797.8	797.8	796.4
22.5°	795.1	801.1	805.8	801.8	799.1
25°	805.8	813.1	815.1	807.8	803.1
27.5°	821.1	830.4	827.8	817.8	811.8
30°	841.1	853.1	847.1	832.4	823.8
32.5°	867.7	882.4	872.4	853.8	840.4
35°	901.1	918.4	909.1	878.4	859.1
37.5°	942.4	960.4	949.1	909.7	883.7
40°	996.4	1005.7	989.7	947.1	915.7
42.5°	1055.0	1050.4	1025.7	986.4	955.7
45°	1114.3	1087.0	1047.7	1020.4	998.4
47.5°	1157.0	1106.3	1050.4	1036.4	1032.4
50°	1167.7	1102.3	1033.0	1027.7	1042.4
52.5°	1137.7	1081.0	1001.7	992.4	1019.0
55°	1071.0	1043.7	963.1	935.1	959.7
57.5°	973.1	971.1	901.7	851.8	858.4
60°	848.4	856.4	811.1	740.5	736.5
62.5°	713.8	718.5	698.5	625.2	611.2
65°	593.2	588.5	582.5	519.9	507.9
67.5°	493.9	479.9	470.5	432.5	426.5
70°	409.9	387.9	369.2	363.2	357.2
72.5°	331.9	315.9	285.9	302.6	301.9
75°	268.6	253.9	222.6	253.3	255.9
77.5°	219.9	209.9	179.9	207.9	216.6
80°	186.6	166.0	151.3	169.3	180.6
82.5°	142.6	126.6	123.3	130.6	141.3
85°	94.6	88.6	91.3	94.0	100.6
87.5°	48.0	51.3	55.3	60.0	63.3
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1527350

CATALOG NUMBER: 24CGSB-45-A125-L940

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	16.5	18.3	16.9	18.6	18.9	15.6	17.4	16.0	17.7	18.0
	3H	17.6	19.2	18.0	19.6	19.9	16.7	18.4	17.1	18.7	19.0
	4H	18.0	19.5	18.4	19.9	20.3	17.2	18.7	17.6	19.1	19.5
	6H	18.4	19.8	18.8	20.2	20.5	17.7	19.1	18.1	19.4	19.8
	8H	18.5	19.9	19.0	20.3	20.7	17.8	19.2	18.3	19.6	20.0
	12H	18.7	20.0	19.1	20.3	20.8	18.0	19.3	18.5	19.7	20.1
4H	2H	16.9	18.5	17.3	18.8	19.2	16.2	17.7	16.6	18.0	18.4
	3H	18.2	19.5	18.6	19.9	20.3	17.5	18.8	17.9	19.2	19.6
	4H	18.7	19.9	19.1	20.3	20.7	18.1	19.2	18.5	19.6	20.1
	6H	19.2	20.2	19.7	20.7	21.1	18.7	19.7	19.1	20.1	20.6
	8H	19.4	20.4	19.9	20.8	21.3	18.9	19.9	19.4	20.3	20.8
	12H	19.6	20.5	20.1	21.0	21.4	19.2	20.0	19.6	20.5	21.0
8H	4H	18.9	19.8	19.3	20.3	20.7	18.3	19.2	18.7	19.7	20.1
	6H	19.5	20.3	20.0	20.8	21.2	19.0	19.8	19.5	20.3	20.7
	8H	19.8	20.5	20.3	21.0	21.5	19.3	20.1	19.8	20.6	21.0
	12H	20.1	20.7	20.6	21.2	21.8	19.7	20.3	20.2	20.8	21.4
12H	4H	18.9	19.8	19.4	20.2	20.7	18.3	19.2	18.8	19.7	20.1
	6H	19.5	20.3	20.1	20.7	21.3	19.1	19.8	19.6	20.2	20.8
	8H	19.9	20.5	20.4	21.0	21.6	19.5	20.1	20.0	20.6	21.1













(END OF REPORT)