

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: P1527354

Luminaire Tested: 24CGSB-50-A125-L850

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1527354
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-50-A125-L850
Description: CGTX with A125 Lens Option

Light Source:
Ballast/Driver: -

Summary

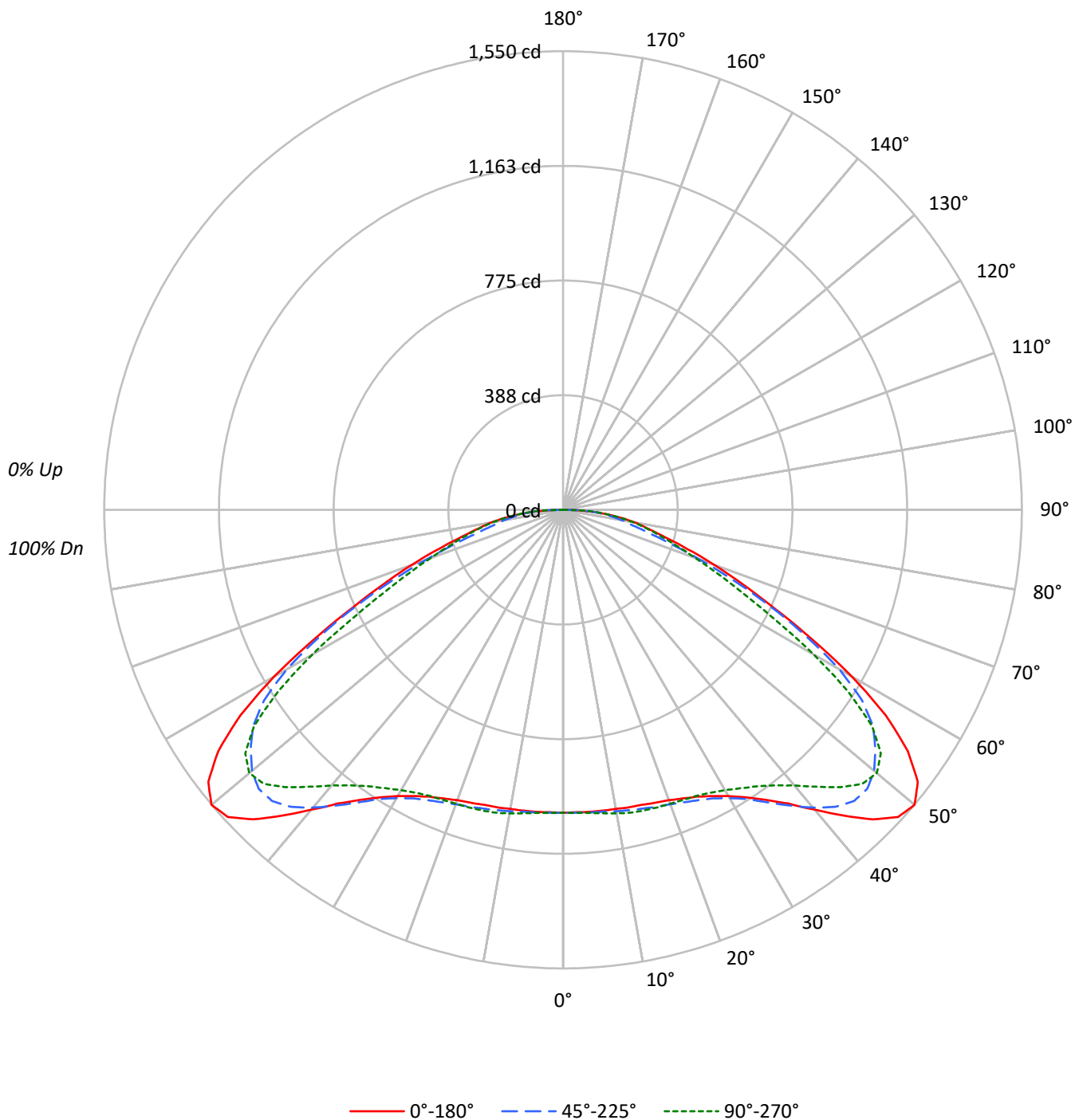
Lumens per Lamp: N/A
Luminaire Lumens: 5110.7 lumens
Efficiency: N/A
Efficacy: 128.1 lumens/watt
Spacing Criteria (0/90/45): 2.04 / 1.82 / 1.97
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 39.9
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: P1527354

CATALOG NUMBER: 24CGSB-50-A125-L850

Luminous Intensity Polar Plot



TEST NUMBER: P1527354

CATALOG NUMBER: 24CGSB-50-A125-L850

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		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°	1378	1378	1378
5°	1384	1386	1389
10°	1402	1413	1423
15°	1437	1456	1466
20°	1495	1517	1514
25°	1588	1607	1583
30°	1735	1747	1699
35°	1965	1983	1873
40°	2324	2308	2135
45°	2815	2647	2522
50°	3245	2871	2897
55°	3336	2999	2989
60°	3031	2898	2631
65°	2507	2462	2147
70°	2141	1928	1866
75°	1854	1536	1766
80°	1920	1557	1858
85°	1941	1871	2062

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 3339 cd/sqm

TEST NUMBER: P1527354

CATALOG NUMBER: 24CGSB-50-A125-L850

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.3	1.9
10°-20°	296.3	5.8
20°-30°	500.5	9.8
30°-40°	753.5	14.7
40°-50°	1071.4	21.0
50°-60°	1149.9	22.5
60°-70°	749.4	14.7
70°-80°	360.3	7.0
80°-90°	131.1	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°	895.1	17.5
0°-40°	1648.6	32.3
0°-60°	3869.9	75.7
0°-90°	5110.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5110.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1024	1024	1024	1024	1024	
5°	1025	1026	1026	1030	1028	98
15°	1032	1037	1045	1051	1052	293
25°	1070	1080	1082	1072	1066	498
35°	1196	1219	1207	1166	1141	759
45°	1480	1443	1391	1355	1326	1136
55°	1422	1386	1279	1242	1274	1244
65°	788	781	773	690	674	797
75°	357	337	296	336	340	392
85°	126	118	121	125	134	137
90°	0	0	0	0	0	

TEST NUMBER: P1527354

CATALOG NUMBER: 24CGSB-50-A125-L850

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1023.8	1023.8	1023.8	1023.8	1023.8
2.5°	1022.9	1023.8	1024.7	1025.6	1025.6
5°	1024.7	1025.6	1026.5	1030.0	1028.2
7.5°	1025.6	1026.5	1029.1	1034.4	1034.4
10°	1026.5	1029.1	1034.4	1039.7	1041.5
12.5°	1030.0	1032.6	1039.7	1046.8	1048.6
15°	1031.8	1037.1	1045.0	1051.2	1052.1
17.5°	1038.0	1043.3	1052.1	1054.8	1054.8
20°	1044.2	1051.2	1059.2	1059.2	1057.4
22.5°	1055.7	1063.6	1069.8	1064.5	1061.0
25°	1069.8	1079.5	1082.2	1072.5	1066.3
27.5°	1090.2	1102.6	1099.0	1085.7	1077.8
30°	1116.7	1132.6	1124.7	1105.2	1093.7
32.5°	1152.1	1171.6	1158.3	1133.5	1115.8
35°	1196.3	1219.4	1207.0	1166.3	1140.6
37.5°	1251.2	1275.1	1260.1	1207.9	1173.3
40°	1322.9	1335.3	1314.0	1257.4	1215.8
42.5°	1400.8	1394.6	1361.8	1309.6	1268.9
45°	1479.5	1443.2	1391.0	1354.7	1325.5
47.5°	1536.1	1468.9	1394.6	1376.0	1370.7
50°	1550.3	1463.6	1371.6	1364.5	1383.9
52.5°	1510.5	1435.3	1330.0	1317.6	1353.0
55°	1422.0	1385.7	1278.6	1241.5	1274.2
57.5°	1291.9	1289.3	1197.2	1130.9	1139.7
60°	1126.4	1137.1	1076.9	983.1	977.8
62.5°	947.7	953.9	927.3	830.0	811.4
65°	787.5	781.3	773.4	690.2	674.3
67.5°	655.7	637.1	624.7	574.3	566.3
70°	544.2	515.0	490.2	482.3	474.3
72.5°	440.7	419.4	379.6	401.7	400.8
75°	356.6	337.1	295.5	336.3	339.8
77.5°	292.0	278.7	238.9	276.1	287.6
80°	247.8	220.3	200.9	224.8	239.8
82.5°	189.4	168.1	163.7	173.4	187.6
85°	125.7	117.7	121.2	124.8	133.6
87.5°	63.7	68.1	73.4	79.6	84.1
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1527354

CATALOG NUMBER: 24CGSB-50-A125-L850

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	17.5	19.3	17.9	19.6	19.9	16.6	18.4	17.0	18.7	19.0
	3H	18.6	20.2	19.0	20.6	20.9	17.7	19.3	18.1	19.7	20.0
	4H	19.0	20.5	19.4	20.9	21.2	18.2	19.7	18.6	20.1	20.4
	6H	19.4	20.8	19.8	21.1	21.5	18.6	20.1	19.0	20.4	20.8
	8H	19.5	20.9	19.9	21.3	21.7	18.8	20.2	19.3	20.6	21.0
	12H	19.7	21.0	20.1	21.3	21.8	19.0	20.3	19.4	20.7	21.1
4H	2H	17.9	19.4	18.3	19.8	20.2	17.2	18.7	17.6	19.0	19.4
	3H	19.2	20.5	19.6	20.9	21.3	18.5	19.8	18.9	20.2	20.6
	4H	19.7	20.9	20.1	21.3	21.7	19.1	20.2	19.5	20.6	21.1
	6H	20.2	21.2	20.6	21.6	22.1	19.6	20.7	20.1	21.1	21.5
	8H	20.4	21.4	20.9	21.8	22.3	19.9	20.9	20.4	21.3	21.8
	12H	20.6	21.5	21.1	21.9	22.4	20.1	21.0	20.6	21.5	21.9
8H	4H	19.9	20.8	20.3	21.3	21.7	19.3	20.2	19.7	20.7	21.1
	6H	20.5	21.3	21.0	21.7	22.2	20.0	20.8	20.5	21.3	21.7
	8H	20.8	21.5	21.3	22.0	22.5	20.3	21.0	20.8	21.5	22.0
	12H	21.1	21.7	21.6	22.2	22.7	20.7	21.3	21.2	21.8	22.4
12H	4H	19.9	20.8	20.4	21.2	21.7	19.3	20.2	19.8	20.6	21.1
	6H	20.5	21.2	21.0	21.7	22.2	20.0	20.8	20.6	21.2	21.8
	8H	20.9	21.5	21.4	22.0	22.6	20.5	21.1	21.0	21.6	22.1















(END OF REPORT)