

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: P1527353

Luminaire Tested: 24CGSB-50-A125-L840

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1527353
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-L840
Description: CGTX with A125 Lens Option

Light Source:
Ballast/Driver: -

Summary

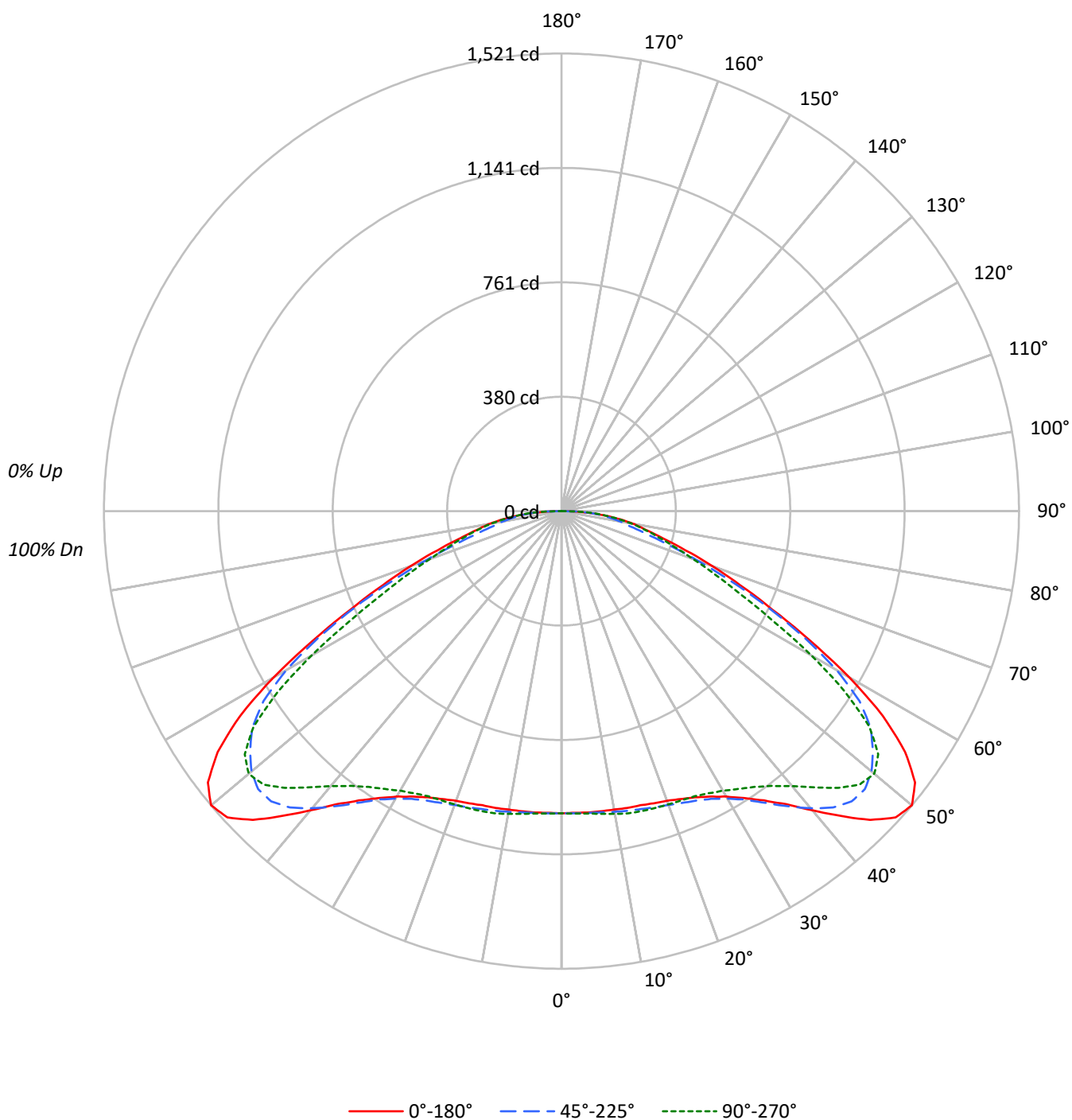
Lumens per Lamp: N/A
Luminaire Lumens: 5013.3 lumens
Efficiency: N/A
Efficacy: 125.6 lumens/watt
Spacing Criteria (0/90/45): 2.04 / 1.82 / 1.97
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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

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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		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°	1351	1351	1351
5°	1358	1360	1362
10°	1376	1386	1396
15°	1410	1428	1438
20°	1467	1488	1485
25°	1558	1576	1553
30°	1702	1714	1667
35°	1928	1945	1838
40°	2279	2264	2095
45°	2762	2596	2474
50°	3183	2816	2842
55°	3272	2942	2932
60°	2974	2843	2581
65°	2459	2415	2106
70°	2100	1892	1830
75°	1818	1507	1733
80°	1883	1526	1822
85°	1903	1836	2024

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 3275 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.4	1.9
10°-20°	290.7	5.8
20°-30°	491.0	9.8
30°-40°	739.1	14.7
40°-50°	1051.0	21.0
50°-60°	1127.9	22.5
60°-70°	735.1	14.7
70°-80°	353.4	7.0
80°-90°	128.6	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°	878.1	17.5
0°-40°	1617.2	32.3
0°-60°	3796.2	75.7
0°-90°	5013.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5013.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1004	1004	1004	1004	1004	
5°	1005	1006	1007	1010	1009	96
15°	1012	1017	1025	1031	1032	288
25°	1049	1059	1062	1052	1046	489
35°	1174	1196	1184	1144	1119	745
45°	1451	1416	1364	1329	1300	1114
55°	1395	1359	1254	1218	1250	1220
65°	772	766	759	677	661	782
75°	350	331	290	330	333	384
85°	123	115	119	122	131	134
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1004.3	1004.3	1004.3	1004.3	1004.3
2.5°	1003.4	1004.3	1005.2	1006.0	1006.0
5°	1005.2	1006.0	1006.9	1010.4	1008.6
7.5°	1006.0	1006.9	1009.5	1014.7	1014.7
10°	1006.9	1009.5	1014.7	1019.9	1021.7
12.5°	1010.4	1013.0	1019.9	1026.9	1028.6
15°	1012.1	1017.3	1025.1	1031.2	1032.1
17.5°	1018.2	1023.4	1032.1	1034.7	1034.7
20°	1024.3	1031.2	1039.0	1039.0	1037.3
22.5°	1035.5	1043.4	1049.4	1044.2	1040.8
25°	1049.4	1059.0	1061.6	1052.0	1046.0
27.5°	1069.4	1081.6	1078.1	1065.1	1057.2
30°	1095.4	1111.1	1103.3	1084.2	1072.9
32.5°	1130.2	1149.3	1136.2	1111.9	1094.6
35°	1173.6	1196.1	1184.0	1144.0	1118.9
37.5°	1227.4	1250.8	1236.1	1184.8	1151.0
40°	1297.7	1309.8	1289.0	1233.5	1192.7
42.5°	1374.1	1368.0	1335.9	1284.7	1244.7
45°	1451.3	1415.7	1364.5	1328.9	1300.3
47.5°	1506.9	1440.9	1368.0	1349.8	1344.6
50°	1520.8	1435.7	1345.4	1338.5	1357.6
52.5°	1481.7	1407.9	1304.6	1292.5	1327.2
55°	1394.9	1359.3	1254.3	1217.8	1249.9
57.5°	1267.3	1264.7	1174.4	1109.3	1118.0
60°	1105.0	1115.4	1056.4	964.4	959.2
62.5°	929.6	935.7	909.7	814.2	796.0
65°	772.5	766.5	758.6	677.1	661.4
67.5°	643.2	625.0	612.8	563.3	555.5
70°	533.8	505.2	480.9	473.1	465.3
72.5°	432.3	411.4	372.4	394.1	393.2
75°	349.8	330.7	289.9	329.8	333.3
77.5°	286.4	273.4	234.4	270.8	282.1
80°	243.0	216.1	197.0	220.5	235.2
82.5°	185.8	164.9	160.6	170.1	184.0
85°	123.3	115.4	118.9	122.4	131.1
87.5°	62.5	66.8	72.0	78.1	82.5
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	19.9	16.5	18.3	16.9	18.6	18.9
	3H	18.5	20.2	18.9	20.5	20.8	17.7	19.3	18.0	19.6	20.0
	4H	18.9	20.5	19.3	20.8	21.2	18.1	19.7	18.5	20.0	20.4
	6H	19.3	20.7	19.7	21.1	21.5	18.6	20.0	19.0	20.3	20.7
	8H	19.5	20.8	19.9	21.2	21.6	18.8	20.1	19.2	20.5	20.9
	12H	19.6	20.9	20.0	21.3	21.7	18.9	20.2	19.4	20.6	21.1
4H	2H	17.9	19.4	18.2	19.7	20.1	17.1	18.6	17.5	19.0	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	20.1	21.2	21.6	19.0	20.2	19.4	20.6	21.0
	6H	20.1	21.1	20.6	21.6	22.0	19.6	20.6	20.0	21.0	21.5
	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	21.9	22.3	20.1	20.9	20.6	21.4	21.9
8H	4H	19.8	20.8	20.3	21.2	21.7	19.2	20.2	19.7	20.6	21.1
	6H	20.4	21.2	20.9	21.7	22.2	19.9	20.7	20.4	21.2	21.7
	8H	20.7	21.4	21.2	21.9	22.4	20.3	21.0	20.8	21.5	22.0
	12H	21.0	21.6	21.5	22.1	22.7	20.6	21.3	21.1	21.7	22.3
12H	4H	19.8	20.7	20.3	21.2	21.6	19.2	20.1	19.7	20.6	21.0
	6H	20.5	21.2	21.0	21.6	22.2	20.0	20.7	20.5	21.2	21.7
	8H	20.8	21.4	21.3	21.9	22.5	20.4	21.0	20.9	21.5	22.1















(END OF REPORT)