

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: P1584103

Luminaire Tested: 14CGSB-40-A125-L850

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584103
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P1527173)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CGSB-40-A125-L850
Description: CGTX with A125 Lens Option

Light Source:
Ballast/Driver: -

Summary

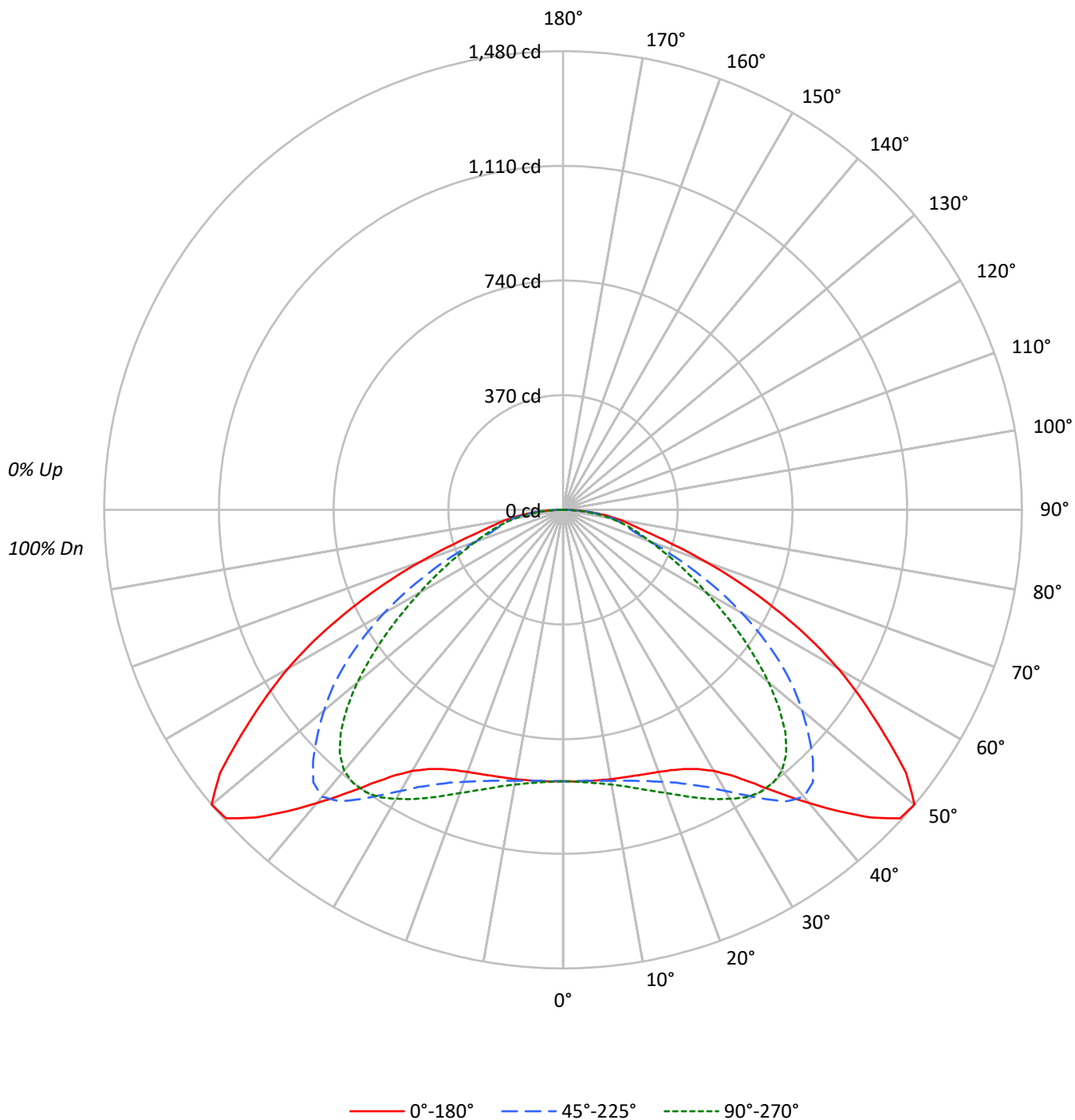
Lumens per Lamp: N/A
Luminaire Lumens: 4101.4 lumens
Efficiency: N/A
Efficacy: 92.8 lumens/watt
Spacing Criteria (0/90/45): 2.23 / 1.81 / 1.81
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 44.2
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	103	99	95	105	101	97	93	97	93	90		93	90	87		89	87	85		83
2	98	89	82	76	95	87	81	75	84	78	73		80	76	72		77	73	70		68
3	89	77	69	62	86	76	68	61	73	66	60		70	64	59		67	62	58		56
4	80	68	58	51	78	66	58	51	64	56	50		61	55	50		59	54	49		47
5	73	60	50	43	71	59	50	43	56	49	43		54	48	42		53	46	42		39
6	67	53	44	37	65	52	43	37	50	42	36		49	42	36		47	41	36		34
7	62	48	38	32	60	47	38	32	45	37	32		44	37	31		42	36	31		29
8	57	43	34	28	56	42	34	28	41	33	28		40	33	28		39	32	27		25
9	53	39	31	25	52	39	30	25	37	30	24		36	29	24		35	29	24		22
10	50	36	28	22	48	35	27	22	34	27	22		33	27	22		32	26	22		20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2356	2356	2356
5°	2374	2371	2384
10°	2412	2425	2460
15°	2475	2523	2594
20°	2578	2674	2785
25°	2739	2904	3045
30°	3022	3254	3345
35°	3543	3745	3650
40°	4337	4246	3858
45°	5342	4338	3858
50°	6195	4212	3624
55°	5943	3993	3259
60°	5521	3583	2870
65°	4809	3002	2571
70°	3847	2360	2360
75°	2952	2237	2342
80°	2898	2583	2385
85°	2912	2862	2334

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 50°

Luminance: 6195 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.3	2.1
10°-20°	258.5	6.3
20°-30°	455.0	11.1
30°-40°	704.8	17.2
40°-50°	897.9	21.9
50°-60°	816.9	19.9
60°-70°	529.8	12.9
70°-80°	257.7	6.3
80°-90°	96.5	2.4
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°	797.8	19.5
0°-40°	1502.6	36.6
0°-60°	3217.4	78.4
0°-90°	4101.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4101.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	876	876	876	876	876	
5°	879	880	878	879	883	84
15°	888	894	906	923	931	252
25°	923	942	978	1013	1025	430
35°	1079	1126	1140	1121	1111	687
45°	1404	1317	1140	1040	1014	1078
55°	1267	1111	851	734	695	1131
65°	755	669	471	409	404	748
75°	284	260	215	205	225	322
85°	94	103	93	85	76	102
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	875.7	875.7	875.7	875.7	875.7
2.5°	877.3	878.4	875.7	876.2	877.8
5°	878.9	880.0	877.8	879.4	882.6
7.5°	880.0	882.1	882.1	885.8	890.1
10°	882.6	884.8	887.4	894.9	900.2
12.5°	884.8	888.5	894.9	907.1	913.0
15°	888.5	894.3	905.5	922.6	931.1
17.5°	893.3	901.8	917.8	940.2	950.3
20°	900.2	911.4	933.8	960.4	972.6
22.5°	909.3	924.2	952.9	984.4	997.7
25°	922.6	941.8	978.0	1012.6	1025.4
27.5°	942.8	966.8	1008.3	1043.0	1052.5
30°	972.6	1002.5	1047.2	1071.2	1076.5
32.5°	1016.9	1055.2	1090.9	1098.9	1100.0
35°	1078.6	1125.5	1139.9	1121.3	1111.1
37.5°	1154.3	1206.5	1185.2	1129.8	1111.7
40°	1234.7	1277.3	1208.6	1122.9	1098.4
42.5°	1319.9	1317.8	1192.6	1092.5	1065.9
45°	1403.6	1317.3	1139.9	1040.3	1013.7
47.5°	1473.9	1277.3	1074.4	975.8	944.4
50°	1479.7	1225.1	1006.2	897.5	865.6
52.5°	1394.5	1173.5	934.3	816.6	779.8
55°	1266.7	1111.1	851.2	733.5	694.6
57.5°	1145.8	1029.6	760.6	647.7	609.4
60°	1025.9	924.7	665.8	564.6	533.2
62.5°	893.3	802.7	568.9	482.1	465.6
65°	755.3	669.0	471.4	408.6	403.8
67.5°	621.6	542.3	378.2	339.3	345.2
70°	489.0	428.3	299.9	290.8	299.9
72.5°	371.8	337.7	244.0	246.1	261.0
75°	283.9	259.9	215.2	205.1	225.3
77.5°	227.4	212.0	190.7	175.8	190.7
80°	187.0	183.2	166.7	149.1	153.9
82.5°	141.2	143.8	131.0	122.0	116.1
85°	94.3	102.8	92.7	84.7	75.6
87.5°	47.4	57.5	49.0	43.7	38.9
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	19.3	21.1	19.7	21.4	21.7	15.9	17.6	16.3	17.9	18.2
	3H	20.6	22.2	21.0	22.5	22.9	17.2	18.7	17.5	19.1	19.4
	4H	21.0	22.4	21.4	22.8	23.2	17.7	19.2	18.1	19.6	19.9
	6H	21.3	22.6	21.7	23.0	23.4	18.3	19.7	18.7	20.0	20.4
	8H	21.4	22.7	21.8	23.1	23.5	18.5	19.8	18.9	20.2	20.6
	12H	21.5	22.8	21.9	23.1	23.6	18.7	19.9	19.1	20.3	20.7
4H	2H	19.5	21.0	19.9	21.3	21.7	16.5	18.0	16.9	18.4	18.7
	3H	21.0	22.2	21.4	22.6	23.0	18.0	19.2	18.4	19.6	20.0
	4H	21.4	22.6	21.9	23.0	23.4	18.7	19.8	19.1	20.2	20.6
	6H	21.9	22.9	22.3	23.3	23.8	19.4	20.3	19.8	20.8	21.2
	8H	22.1	23.0	22.6	23.4	23.9	19.7	20.6	20.1	21.0	21.5
	12H	22.3	23.1	22.8	23.6	24.0	19.9	20.7	20.4	21.2	21.7
8H	4H	21.5	22.5	22.0	22.9	23.4	19.0	19.9	19.5	20.4	20.8
	6H	22.1	22.9	22.6	23.4	23.8	19.9	20.6	20.3	21.1	21.6
	8H	22.4	23.1	22.9	23.6	24.1	20.3	21.0	20.8	21.5	21.9
	12H	22.7	23.3	23.2	23.8	24.4	20.6	21.2	21.1	21.7	22.3
12H	4H	21.6	22.4	22.0	22.9	23.3	19.1	19.9	19.6	20.4	20.9
	6H	22.2	22.9	22.7	23.3	23.9	20.0	20.7	20.5	21.1	21.7
	8H	22.5	23.1	23.0	23.6	24.2	20.5	21.1	21.0	21.6	22.1













(END OF REPORT)