

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: P1584117

Luminaire Tested: 14CGSB-50-A125-L850

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584117
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-50-A125-L850
Description: CGTX with A125 Lens Option

Light Source:
Ballast/Driver: -

Summary

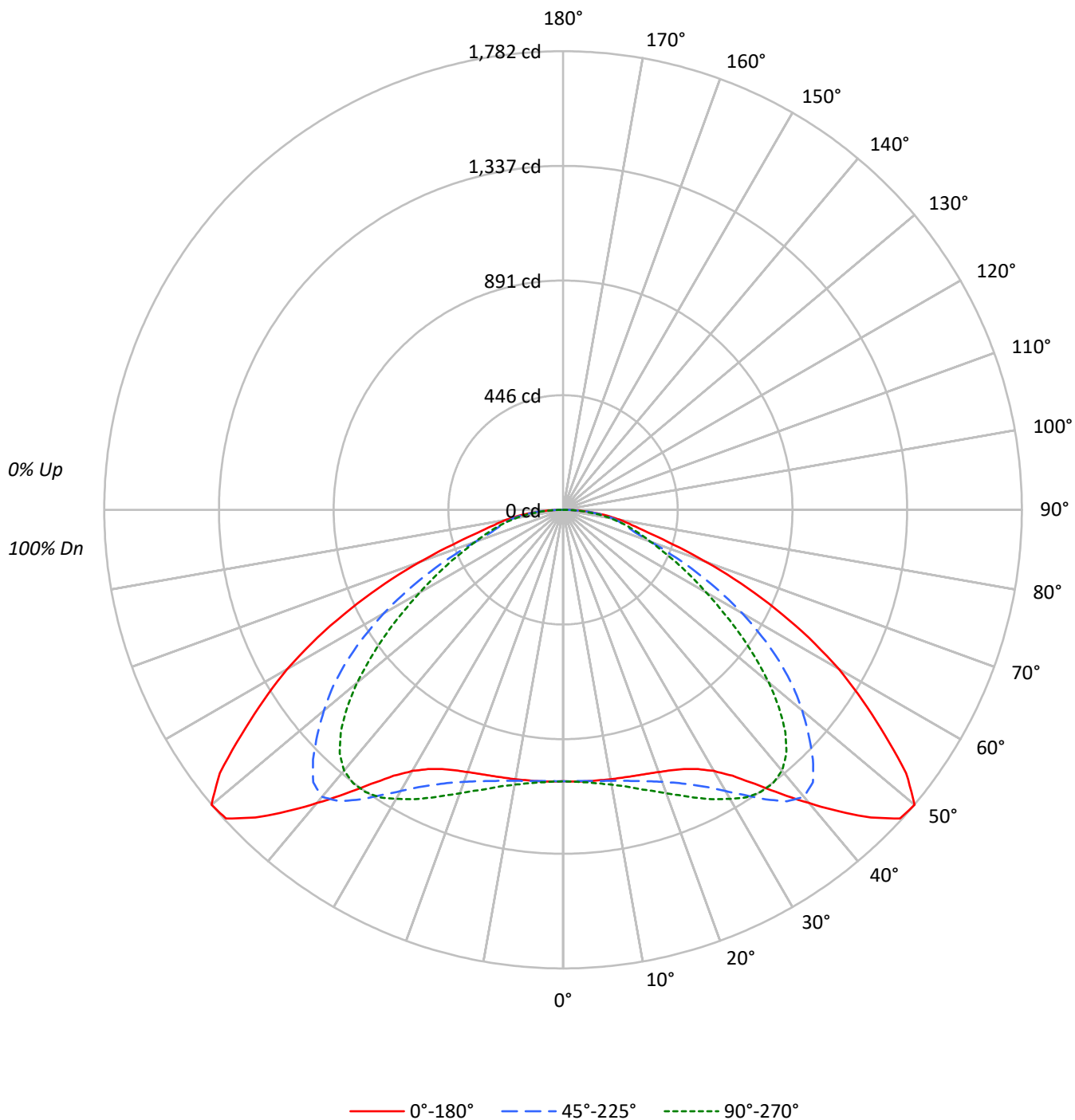
Lumens per Lamp: N/A
Luminaire Lumens: 4940.0 lumens
Efficiency: N/A
Efficacy: 84.9 lumens/watt
Spacing Criteria (0/90/45): 2.23 / 1.81 / 1.81
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 58.2
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°	2838	2838	2838
5°	2860	2856	2872
10°	2905	2921	2963
15°	2981	3039	3124
20°	3105	3221	3355
25°	3299	3497	3667
30°	3640	3920	4029
35°	4268	4510	4396
40°	5224	5114	4647
45°	6434	5225	4646
50°	7461	5074	4365
55°	7158	4810	3925
60°	6650	4316	3456
65°	5793	3615	3096
70°	4634	2842	2842
75°	3556	2695	2822
80°	3490	3112	2873
85°	3507	3446	2813

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 50°

Luminance: 7461 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.5	2.1
10°-20°	311.4	6.3
20°-30°	548.0	11.1
30°-40°	848.9	17.2
40°-50°	1081.5	21.9
50°-60°	984.0	19.9
60°-70°	638.1	12.9
70°-80°	310.4	6.3
80°-90°	116.3	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°	960.9	19.5
0°-40°	1809.8	36.6
0°-60°	3875.3	78.4
0°-90°	4940.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4940.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1055	1055	1055	1055	1055	
5°	1059	1060	1057	1059	1063	101
15°	1070	1077	1091	1111	1122	304
25°	1111	1134	1178	1220	1235	518
35°	1299	1356	1373	1350	1338	827
45°	1691	1587	1373	1253	1221	1299
55°	1526	1338	1025	884	837	1362
65°	910	806	568	492	486	901
75°	342	313	259	247	271	388
85°	114	124	112	102	91	123
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1054.8	1054.8	1054.8	1054.8	1054.8
2.5°	1056.7	1058.0	1054.8	1055.4	1057.3
5°	1058.6	1059.9	1057.3	1059.3	1063.1
7.5°	1059.9	1062.5	1062.5	1067.0	1072.1
10°	1063.1	1065.7	1068.9	1077.9	1084.3
12.5°	1065.7	1070.2	1077.9	1092.6	1099.7
15°	1070.2	1077.2	1090.7	1111.2	1121.5
17.5°	1075.9	1086.2	1105.4	1132.4	1144.6
20°	1084.3	1097.8	1124.7	1156.8	1171.5
22.5°	1095.2	1113.1	1147.8	1185.6	1201.7
25°	1111.2	1134.3	1177.9	1219.7	1235.0
27.5°	1135.6	1164.5	1214.5	1256.2	1267.8
30°	1171.5	1207.5	1261.4	1290.2	1296.6
32.5°	1224.8	1271.0	1314.0	1323.6	1324.9
35°	1299.2	1355.7	1373.0	1350.5	1338.3
37.5°	1390.3	1453.2	1427.5	1360.8	1339.0
40°	1487.2	1538.5	1455.8	1352.5	1322.9
42.5°	1589.8	1587.3	1436.5	1315.9	1283.8
45°	1690.6	1586.6	1373.0	1253.0	1220.9
47.5°	1775.3	1538.5	1294.1	1175.4	1137.5
50°	1782.3	1475.6	1212.0	1081.1	1042.6
52.5°	1679.7	1413.4	1125.3	983.5	939.3
55°	1525.7	1338.3	1025.3	883.5	836.6
57.5°	1380.0	1240.2	916.2	780.2	734.0
60°	1235.7	1113.8	802.0	680.1	642.2
62.5°	1075.9	966.9	685.2	580.6	560.7
65°	909.8	805.8	567.8	492.1	486.3
67.5°	748.7	653.1	455.5	408.7	415.7
70°	589.0	515.8	361.2	350.3	361.2
72.5°	447.8	406.8	293.8	296.4	314.4
75°	342.0	313.1	259.2	247.0	271.4
77.5°	274.0	255.4	229.7	211.7	229.7
80°	225.2	220.7	200.8	179.6	185.4
82.5°	170.0	173.2	157.8	146.9	139.9
85°	113.6	123.8	111.6	102.0	91.1
87.5°	57.1	69.3	59.0	52.6	46.8
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	20.0	21.7	20.3	22.0	22.3	16.5	18.3	16.9	18.6	18.9
	3H	21.3	22.8	21.6	23.2	23.5	17.8	19.4	18.2	19.7	20.1
	4H	21.6	23.1	22.0	23.4	23.8	18.4	19.9	18.8	20.2	20.6
	6H	21.9	23.3	22.3	23.7	24.0	18.9	20.3	19.3	20.7	21.0
	8H	22.1	23.4	22.5	23.7	24.1	19.2	20.5	19.6	20.8	21.2
	12H	22.2	23.4	22.6	23.8	24.2	19.3	20.6	19.8	21.0	21.4
4H	2H	20.1	21.6	20.5	22.0	22.3	17.2	18.7	17.6	19.0	19.4
	3H	21.6	22.8	22.0	23.2	23.6	18.6	19.9	19.1	20.3	20.7
	4H	22.1	23.2	22.5	23.6	24.0	19.3	20.4	19.7	20.8	21.3
	6H	22.5	23.5	23.0	24.0	24.4	20.0	21.0	20.5	21.4	21.9
	8H	22.7	23.7	23.2	24.1	24.6	20.3	21.2	20.8	21.7	22.1
	12H	22.9	23.7	23.4	24.2	24.7	20.5	21.4	21.0	21.8	22.3
8H	4H	22.2	23.1	22.6	23.5	24.0	19.7	20.6	20.1	21.0	21.5
	6H	22.8	23.5	23.3	24.0	24.5	20.5	21.3	21.0	21.8	22.2
	8H	23.1	23.8	23.6	24.3	24.7	20.9	21.6	21.4	22.1	22.6
	12H	23.4	24.0	23.9	24.5	25.0	21.3	21.9	21.8	22.4	22.9
12H	4H	22.2	23.0	22.7	23.5	24.0	19.7	20.6	20.2	21.0	21.5
	6H	22.8	23.5	23.3	24.0	24.5	20.6	21.3	21.2	21.8	22.3
	8H	23.2	23.8	23.7	24.3	24.8	21.1	21.7	21.6	22.2	22.8











(END OF REPORT)