

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: P1584116

Luminaire Tested: 14CGSB-50-A125-L840

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584116
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-L840
Description: CGTX with A125 Lens Option

Light Source:
Ballast/Driver: -

Summary

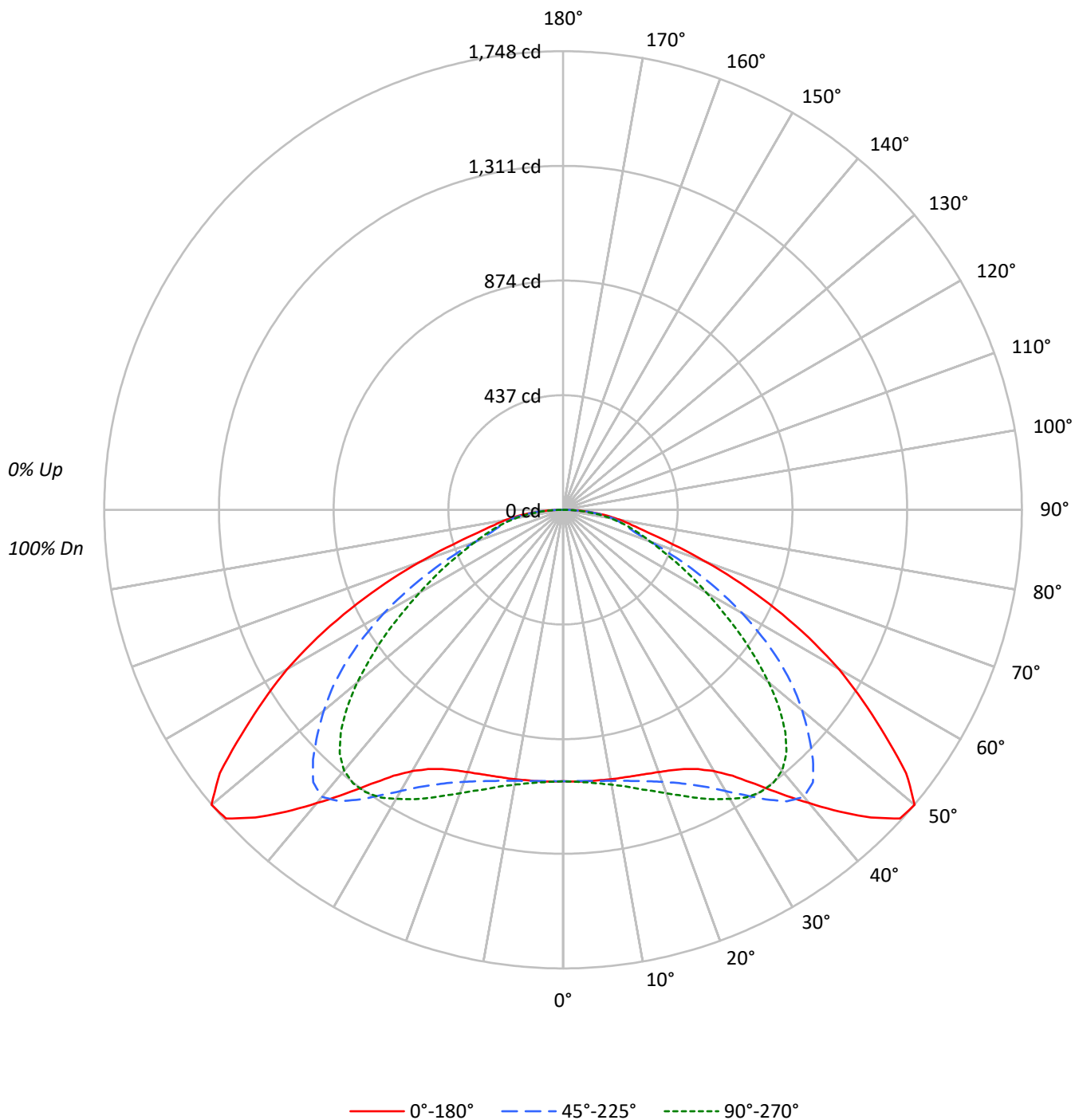
Lumens per Lamp: N/A
Luminaire Lumens: 4845.9 lumens
Efficiency: N/A
Efficacy: 83.3 lumens/watt
Spacing Criteria (0/90/45): 2.23 / 1.81 / 1.81
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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			
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°	2784	2784	2784
5°	2805	2802	2817
10°	2850	2865	2906
15°	2925	2981	3065
20°	3046	3159	3291
25°	3237	3431	3597
30°	3571	3845	3952
35°	4187	4424	4313
40°	5125	5016	4559
45°	6311	5125	4558
50°	7320	4977	4281
55°	7021	4718	3850
60°	6524	4234	3391
65°	5682	3547	3038
70°	4546	2788	2788
75°	3488	2644	2768
80°	3423	3053	2819
85°	3440	3381	2760

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 50°

Luminance: 7320 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.6	2.1
10°-20°	305.4	6.3
20°-30°	537.6	11.1
30°-40°	832.8	17.2
40°-50°	1060.9	21.9
50°-60°	965.2	19.9
60°-70°	626.0	12.9
70°-80°	304.5	6.3
80°-90°	114.1	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°	942.6	19.5
0°-40°	1775.3	36.6
0°-60°	3801.5	78.4
0°-90°	4845.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4845.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1035	1035	1035	1035	1035	
5°	1038	1040	1037	1039	1043	99
15°	1050	1057	1070	1090	1100	298
25°	1090	1113	1156	1196	1212	509
35°	1274	1330	1347	1325	1313	812
45°	1658	1556	1347	1229	1198	1274
55°	1497	1313	1006	867	821	1336
65°	892	790	557	483	477	884
75°	336	307	254	242	266	380
85°	111	122	110	100	89	121
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1034.7	1034.7	1034.7	1034.7	1034.7
2.5°	1036.6	1037.8	1034.7	1035.3	1037.2
5°	1038.5	1039.7	1037.2	1039.1	1042.9
7.5°	1039.7	1042.2	1042.2	1046.6	1051.7
10°	1042.9	1045.4	1048.5	1057.3	1063.6
12.5°	1045.4	1049.8	1057.3	1071.8	1078.7
15°	1049.8	1056.7	1069.9	1090.1	1100.1
17.5°	1055.4	1065.5	1084.4	1110.8	1122.8
20°	1063.6	1076.8	1103.3	1134.7	1149.2
22.5°	1074.3	1091.9	1125.9	1163.1	1178.8
25°	1090.1	1112.7	1155.5	1196.4	1211.5
27.5°	1114.0	1142.3	1191.4	1232.3	1243.6
30°	1149.2	1184.5	1237.3	1265.7	1271.9
32.5°	1201.5	1246.8	1288.9	1298.4	1299.6
35°	1274.5	1329.8	1346.8	1324.8	1312.9
37.5°	1363.8	1425.5	1400.3	1334.9	1313.5
40°	1458.9	1509.2	1428.0	1326.7	1297.7
42.5°	1559.6	1557.0	1409.1	1290.8	1259.4
45°	1658.4	1556.4	1346.8	1229.1	1197.7
47.5°	1741.4	1509.2	1269.4	1153.0	1115.9
50°	1748.4	1447.5	1188.9	1060.5	1022.7
52.5°	1647.7	1386.5	1103.9	964.8	921.4
55°	1496.6	1312.9	1005.7	866.6	820.7
57.5°	1353.8	1216.6	898.7	765.3	720.0
60°	1212.2	1092.6	786.7	667.1	630.0
62.5°	1055.4	948.5	672.2	569.6	550.1
65°	892.4	790.5	557.0	482.7	477.1
67.5°	734.5	640.7	446.8	400.9	407.8
70°	577.8	506.0	354.3	343.6	354.3
72.5°	439.3	399.0	288.2	290.8	308.4
75°	335.5	307.1	254.3	242.3	266.2
77.5°	268.7	250.5	225.3	207.7	225.3
80°	220.9	216.5	197.0	176.2	181.9
82.5°	166.8	169.9	154.8	144.1	137.2
85°	111.4	121.5	109.5	100.1	89.4
87.5°	56.0	68.0	57.9	51.6	45.9
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	19.9	21.6	20.3	22.0	22.3	16.5	18.2	16.8	18.5	18.8
	3H	21.2	22.8	21.6	23.1	23.4	17.8	19.3	18.1	19.6	20.0
	4H	21.6	23.0	22.0	23.4	23.7	18.3	19.8	18.7	20.1	20.5
	6H	21.9	23.2	22.3	23.6	24.0	18.9	20.2	19.3	20.6	21.0
	8H	22.0	23.3	22.4	23.7	24.1	19.1	20.4	19.5	20.8	21.2
	12H	22.1	23.3	22.5	23.7	24.2	19.3	20.5	19.7	20.9	21.3
4H	2H	20.1	21.6	20.5	21.9	22.3	17.1	18.6	17.5	18.9	19.3
	3H	21.5	22.8	22.0	23.2	23.6	18.6	19.8	19.0	20.2	20.6
	4H	22.0	23.1	22.4	23.5	24.0	19.2	20.4	19.7	20.8	21.2
	6H	22.5	23.4	22.9	23.9	24.3	19.9	20.9	20.4	21.4	21.8
	8H	22.7	23.6	23.1	24.0	24.5	20.2	21.1	20.7	21.6	22.1
	12H	22.9	23.7	23.3	24.2	24.6	20.5	21.3	21.0	21.8	22.2
8H	4H	22.1	23.0	22.6	23.5	23.9	19.6	20.5	20.1	20.9	21.4
	6H	22.7	23.5	23.2	24.0	24.4	20.4	21.2	20.9	21.7	22.2
	8H	23.0	23.7	23.5	24.2	24.7	20.8	21.5	21.3	22.0	22.5
	12H	23.3	23.9	23.8	24.4	24.9	21.2	21.8	21.7	22.3	22.9
12H	4H	22.1	23.0	22.6	23.4	23.9	19.7	20.5	20.1	21.0	21.4
	6H	22.8	23.4	23.3	23.9	24.4	20.6	21.3	21.1	21.7	22.3
	8H	23.1	23.7	23.6	24.2	24.8	21.0	21.7	21.5	22.1	22.7















(END OF REPORT)