

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: P1526768

Luminaire Tested: 14CGTX-42HE-A125-L840

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1526768
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2507-496-6)
Test Lab: INNOVATION CENTER
Issue Date: 8/24/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CGTX-42HE-A125-L840
Description: CGTX with A125 Lens Option

Light Source:
Ballast/Driver: -

Summary

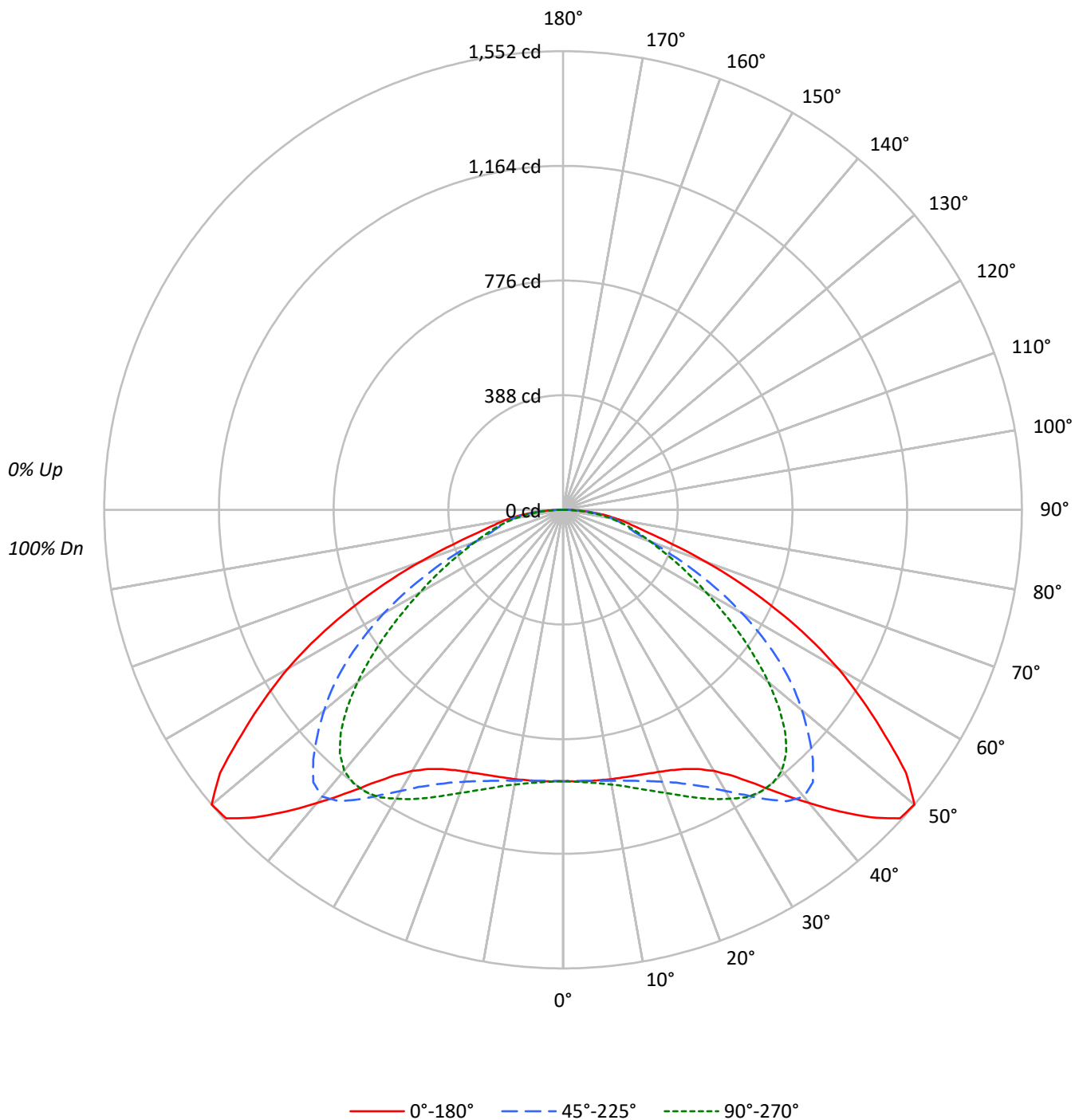
Lumens per Lamp: N/A
Luminaire Lumens: 4300.5 lumens
Efficiency: N/A
Efficacy: 134.8 lumens/watt
Spacing Criteria (0/90/45): 2.23 / 1.81 / 1.81
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 31.9
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	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°	2471	2471	2471
5°	2489	2486	2500
10°	2529	2543	2579
15°	2595	2645	2720
20°	2703	2804	2921
25°	2872	3045	3192
30°	3169	3412	3507
35°	3715	3926	3827
40°	4548	4452	4046
45°	5601	4548	4045
50°	6496	4417	3800
55°	6231	4187	3417
60°	5789	3758	3009
65°	5043	3147	2696
70°	4034	2474	2474
75°	3095	2346	2457
80°	3037	2709	2501
85°	3054	3001	2448

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 50°

Luminance: 6496 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.4	2.1
10°-20°	271.0	6.3
20°-30°	477.1	11.1
30°-40°	739.0	17.2
40°-50°	941.5	21.9
50°-60°	856.6	19.9
60°-70°	555.5	12.9
70°-80°	270.2	6.3
80°-90°	101.2	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°	836.5	19.5
0°-40°	1575.5	36.6
0°-60°	3373.6	78.4
0°-90°	4300.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4300.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	918	918	918	918	918	
5°	922	923	920	922	926	88
15°	932	938	950	967	976	265
25°	967	988	1025	1062	1075	451
35°	1131	1180	1195	1176	1165	720
45°	1472	1381	1195	1091	1063	1131
55°	1328	1165	892	769	728	1186
65°	792	702	494	428	423	784
75°	298	273	226	215	236	337
85°	99	108	97	89	79	107
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	918.2	918.2	918.2	918.2	918.2
2.5°	919.9	921.0	918.2	918.8	920.4
5°	921.6	922.7	920.4	922.1	925.5
7.5°	922.7	924.9	924.9	928.8	933.3
10°	925.5	927.7	930.5	938.3	943.9
12.5°	927.7	931.6	938.3	951.2	957.3
15°	931.6	937.8	949.5	967.4	976.3
17.5°	936.6	945.6	962.3	985.8	996.4
20°	943.9	955.6	979.1	1007.0	1019.9
22.5°	953.4	969.0	999.2	1032.2	1046.1
25°	967.4	987.5	1025.4	1061.8	1075.2
27.5°	988.6	1013.7	1057.3	1093.6	1103.6
30°	1019.9	1051.1	1098.1	1123.2	1128.8
32.5°	1066.2	1106.4	1143.9	1152.2	1153.4
35°	1131.0	1180.2	1195.2	1175.7	1165.1
37.5°	1210.3	1265.1	1242.7	1184.6	1165.6
40°	1294.7	1339.3	1267.3	1177.4	1151.7
42.5°	1384.0	1381.8	1250.5	1145.5	1117.6
45°	1471.7	1381.2	1195.2	1090.8	1062.9
47.5°	1545.4	1339.3	1126.5	1023.2	990.3
50°	1551.6	1284.6	1055.1	941.1	907.6
52.5°	1462.2	1230.4	979.7	856.2	817.7
55°	1328.2	1165.1	892.5	769.1	728.3
57.5°	1201.4	1079.6	797.6	679.2	639.0
60°	1075.7	969.6	698.2	592.0	559.1
62.5°	936.6	841.7	596.5	505.5	488.1
65°	792.0	701.5	494.3	428.4	423.4
67.5°	651.8	568.6	396.6	355.8	361.9
70°	512.7	449.1	314.4	305.0	314.4
72.5°	389.8	354.1	255.8	258.0	273.7
75°	297.7	272.6	225.6	215.0	236.3
77.5°	238.5	222.3	200.0	184.3	200.0
80°	196.0	192.1	174.8	156.4	161.4
82.5°	148.0	150.8	137.4	127.9	121.8
85°	98.9	107.8	97.2	88.8	79.3
87.5°	49.7	60.3	51.4	45.8	40.8
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	19.5	21.2	19.9	21.5	21.9	16.1	17.8	16.4	18.1	18.4
	3H	20.8	22.3	21.2	22.7	23.0	17.3	18.9	17.7	19.2	19.6
	4H	21.1	22.6	21.5	23.0	23.3	17.9	19.4	18.3	19.7	20.1
	6H	21.4	22.8	21.8	23.2	23.6	18.4	19.8	18.9	20.2	20.6
	8H	21.6	22.9	22.0	23.3	23.7	18.7	20.0	19.1	20.4	20.8
	12H	21.7	22.9	22.1	23.3	23.7	18.8	20.1	19.3	20.5	20.9
4H	2H	19.7	21.1	20.1	21.5	21.9	16.7	18.2	17.1	18.5	18.9
	3H	21.1	22.4	21.5	22.8	23.2	18.2	19.4	18.6	19.8	20.2
	4H	21.6	22.7	22.0	23.1	23.6	18.8	20.0	19.3	20.4	20.8
	6H	22.1	23.0	22.5	23.5	23.9	19.5	20.5	20.0	20.9	21.4
	8H	22.3	23.2	22.7	23.6	24.1	19.8	20.7	20.3	21.2	21.6
	12H	22.4	23.3	22.9	23.7	24.2	20.1	20.9	20.5	21.4	21.8
8H	4H	21.7	22.6	22.2	23.1	23.5	19.2	20.1	19.6	20.5	21.0
	6H	22.3	23.1	22.8	23.5	24.0	20.0	20.8	20.5	21.3	21.7
	8H	22.6	23.3	23.1	23.8	24.3	20.4	21.1	20.9	21.6	22.1
	12H	22.9	23.5	23.4	24.0	24.5	20.8	21.4	21.3	21.9	22.4
12H	4H	21.7	22.5	22.2	23.0	23.5	19.3	20.1	19.7	20.5	21.0
	6H	22.3	23.0	22.9	23.5	24.0	20.2	20.8	20.7	21.3	21.8
	8H	22.7	23.3	23.2	23.8	24.3	20.6	21.2	21.1	21.7	22.3













(END OF REPORT)