

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: P1526989

Luminaire Tested: 14CGTX-42HE-F125-L940

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1526989
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2507-496-3)
Test Lab: INNOVATION CENTER
Issue Date: 8/24/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CGTX-42HE-F125-L940
Description: CGTX with F125 Lens Option

Light Source:
Ballast/Driver: -

Summary

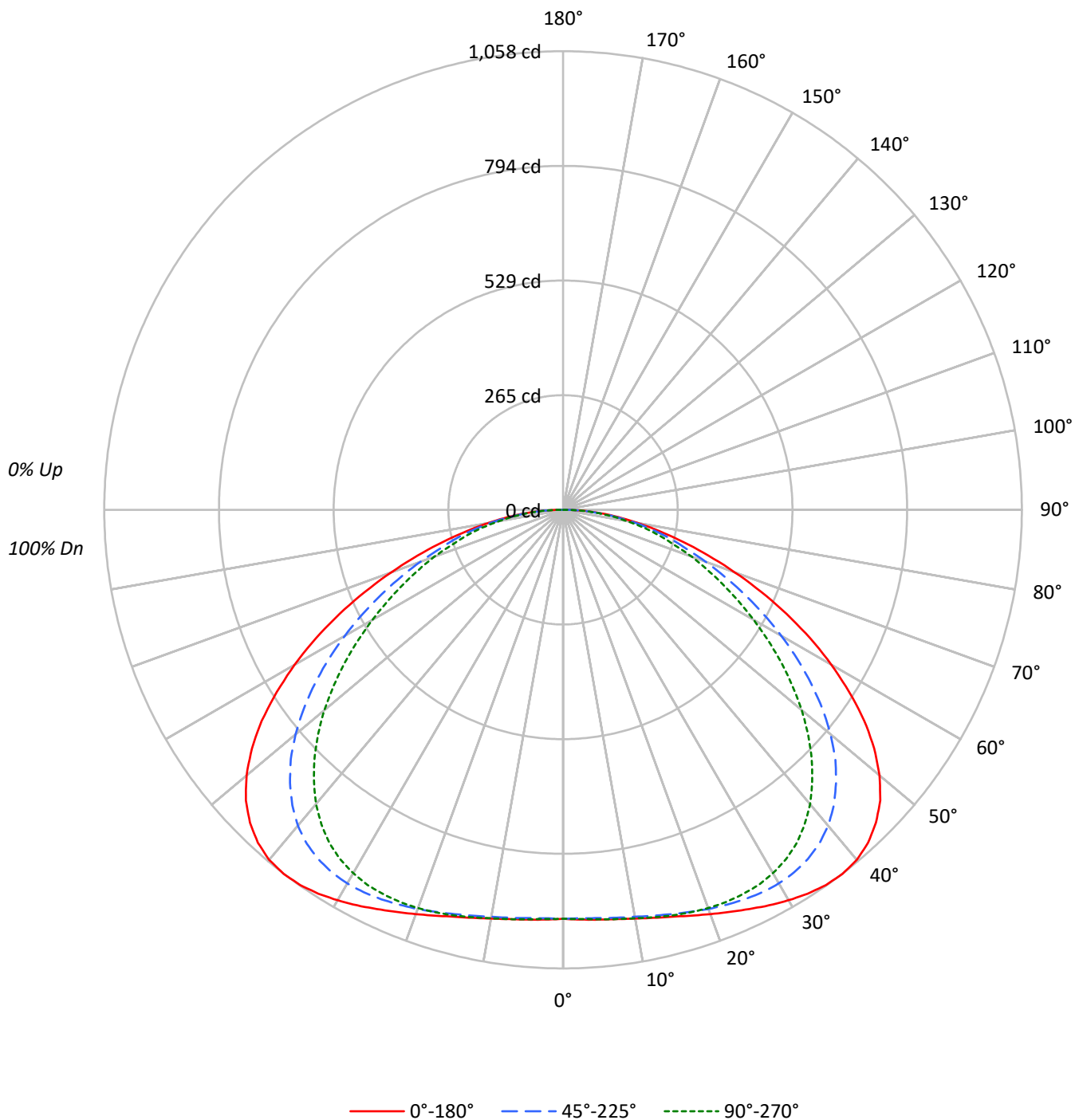
Lumens per Lamp: N/A
Luminaire Lumens: 3615.0 lumens
Efficiency: N/A
Efficacy: 113.3 lumens/watt
Spacing Criteria (0/90/45): 1.68 / 1.5 / 1.61
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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	94	105	101	97	93	96	93	90		93	90	87		89	87	85		82
2	98	89	82	76	95	87	81	75	84	78	73		80	76	71		77	73	70		68
3	89	78	69	62	86	76	68	62	73	66	61		70	64	59		68	63	58		56
4	81	68	59	52	78	67	58	52	64	57	51		62	56	50		60	54	50		47
5	74	61	51	44	72	59	51	44	57	50	44		55	48	43		53	47	43		40
6	68	54	45	38	66	53	44	38	51	44	38		50	43	37		48	42	37		35
7	63	49	40	33	61	48	39	33	46	39	33		45	38	33		44	37	32		30
8	58	44	36	29	57	44	35	29	42	35	29		41	34	29		40	34	29		27
9	54	41	32	26	53	40	32	26	39	31	26		38	31	26		37	30	26		24
10	51	37	29	24	50	37	29	24	36	28	23		35	28	23		34	28	23		21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2538	2538	2538
5°	2563	2553	2561
10°	2616	2605	2614
15°	2707	2690	2699
20°	2842	2807	2800
25°	3017	2944	2906
30°	3232	3092	3008
35°	3471	3232	3085
40°	3703	3342	3113
45°	3884	3389	3086
50°	3989	3370	3007
55°	3979	3277	2881
60°	3846	3127	2731
65°	3622	2937	2583
70°	3314	2750	2482
75°	2982	2648	2398
80°	2726	2572	2317
85°	2621	2461	2316

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 3997 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.7	2.5
10°-20°	274.9	7.6
20°-30°	460.0	12.7
30°-40°	619.8	17.1
40°-50°	695.2	19.2
50°-60°	637.9	17.6
60°-70°	471.8	13.1
70°-80°	274.5	7.6
80°-90°	90.2	2.5
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°	825.5	22.8
0°-40°	1445.3	40.0
0°-60°	2778.4	76.9
0°-90°	3615.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3615.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	943	943	943	943	943	
5°	949	948	945	946	948	91
15°	972	970	966	966	969	276
25°	1016	1008	991	981	979	471
35°	1056	1034	984	950	939	662
45°	1021	982	890	830	811	785
55°	848	800	698	633	614	753
65°	569	534	461	419	406	563
75°	287	283	255	234	231	307
85°	85	87	80	81	75	93
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	943.3	943.3	943.3	943.3	943.3
2.5°	946.2	946.2	942.9	943.8	944.7
5°	949.0	948.5	945.2	945.7	948.0
7.5°	952.3	952.3	949.0	949.0	952.3
10°	957.5	956.5	953.2	954.2	956.5
12.5°	964.1	962.2	958.9	959.8	962.7
15°	971.6	969.7	965.5	966.4	968.8
17.5°	981.5	978.7	972.6	972.6	974.0
20°	992.4	987.7	980.1	976.3	977.8
22.5°	1004.2	998.0	985.8	979.2	979.6
25°	1016.0	1008.4	991.4	980.6	978.7
27.5°	1028.7	1017.9	994.7	979.6	975.9
30°	1040.0	1026.3	995.2	974.5	967.9
32.5°	1049.9	1032.0	991.9	964.6	956.1
35°	1056.5	1034.4	983.9	949.5	939.1
37.5°	1058.4	1031.5	970.7	928.7	915.0
40°	1054.2	1022.6	951.3	901.4	886.3
42.5°	1041.4	1006.5	924.0	868.3	850.4
45°	1020.7	982.0	890.5	830.1	810.8
47.5°	991.9	948.0	851.4	786.3	766.0
50°	952.8	906.5	805.1	738.6	718.3
52.5°	904.2	856.1	753.7	688.2	666.5
55°	848.1	799.5	698.5	633.4	614.1
57.5°	782.5	737.7	640.5	578.7	560.3
60°	714.6	672.1	581.1	524.0	507.5
62.5°	642.9	604.2	521.2	469.8	455.6
65°	568.8	534.4	461.3	419.3	405.6
67.5°	494.8	468.4	404.2	367.0	359.4
70°	421.2	401.4	349.5	325.0	315.5
72.5°	351.4	341.0	297.6	281.1	268.4
75°	286.8	283.0	254.7	234.4	230.6
77.5°	228.3	233.9	209.4	194.8	191.5
80°	175.9	181.6	166.0	153.8	149.5
82.5°	128.3	135.8	120.3	117.4	113.2
85°	84.9	87.3	79.7	80.7	75.0
87.5°	41.5	46.2	42.0	43.4	40.6
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	19.1	17.8	19.5	19.8	15.6	17.3	16.0	17.6	18.0
	3H	19.2	20.7	19.6	21.1	21.4	17.4	18.9	17.7	19.2	19.6
	4H	19.8	21.3	20.2	21.6	22.0	18.1	19.5	18.4	19.9	20.2
	6H	20.3	21.7	20.7	22.0	22.4	18.6	20.0	19.0	20.3	20.7
	8H	20.5	21.8	20.9	22.2	22.6	18.8	20.1	19.3	20.5	20.9
	12H	20.6	21.9	21.1	22.2	22.7	19.0	20.3	19.5	20.6	21.1
4H	2H	17.9	19.3	18.2	19.7	20.0	16.4	17.9	16.8	18.2	18.6
	3H	19.8	21.1	20.3	21.5	21.9	18.3	19.6	18.7	20.0	20.4
	4H	20.6	21.8	21.1	22.2	22.6	19.2	20.3	19.6	20.7	21.1
	6H	21.3	22.3	21.8	22.7	23.2	19.9	20.8	20.3	21.3	21.7
	8H	21.5	22.5	22.0	22.9	23.4	20.1	21.1	20.6	21.5	22.0
	12H	21.7	22.6	22.2	23.0	23.5	20.4	21.2	20.9	21.7	22.1
8H	4H	20.9	21.8	21.4	22.2	22.7	19.6	20.5	20.0	20.9	21.4
	6H	21.7	22.5	22.2	22.9	23.4	20.4	21.2	20.9	21.7	22.2
	8H	22.0	22.7	22.5	23.2	23.7	20.8	21.5	21.3	22.0	22.5
	12H	22.3	22.9	22.8	23.4	24.0	21.1	21.7	21.6	22.2	22.8
12H	4H	20.9	21.7	21.4	22.2	22.7	19.7	20.5	20.1	20.9	21.4
	6H	21.8	22.5	22.3	22.9	23.4	20.6	21.2	21.1	21.7	22.2
	8H	22.1	22.8	22.7	23.2	23.8	21.0	21.6	21.5	22.1	22.6









(END OF REPORT)