

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: P1526979

Luminaire Tested: 14CGTX-42-F125-L830

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1526979
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-42-F125-L830
Description: CGTX with F125 Lens Option

Light Source:
Ballast/Driver: -

Summary

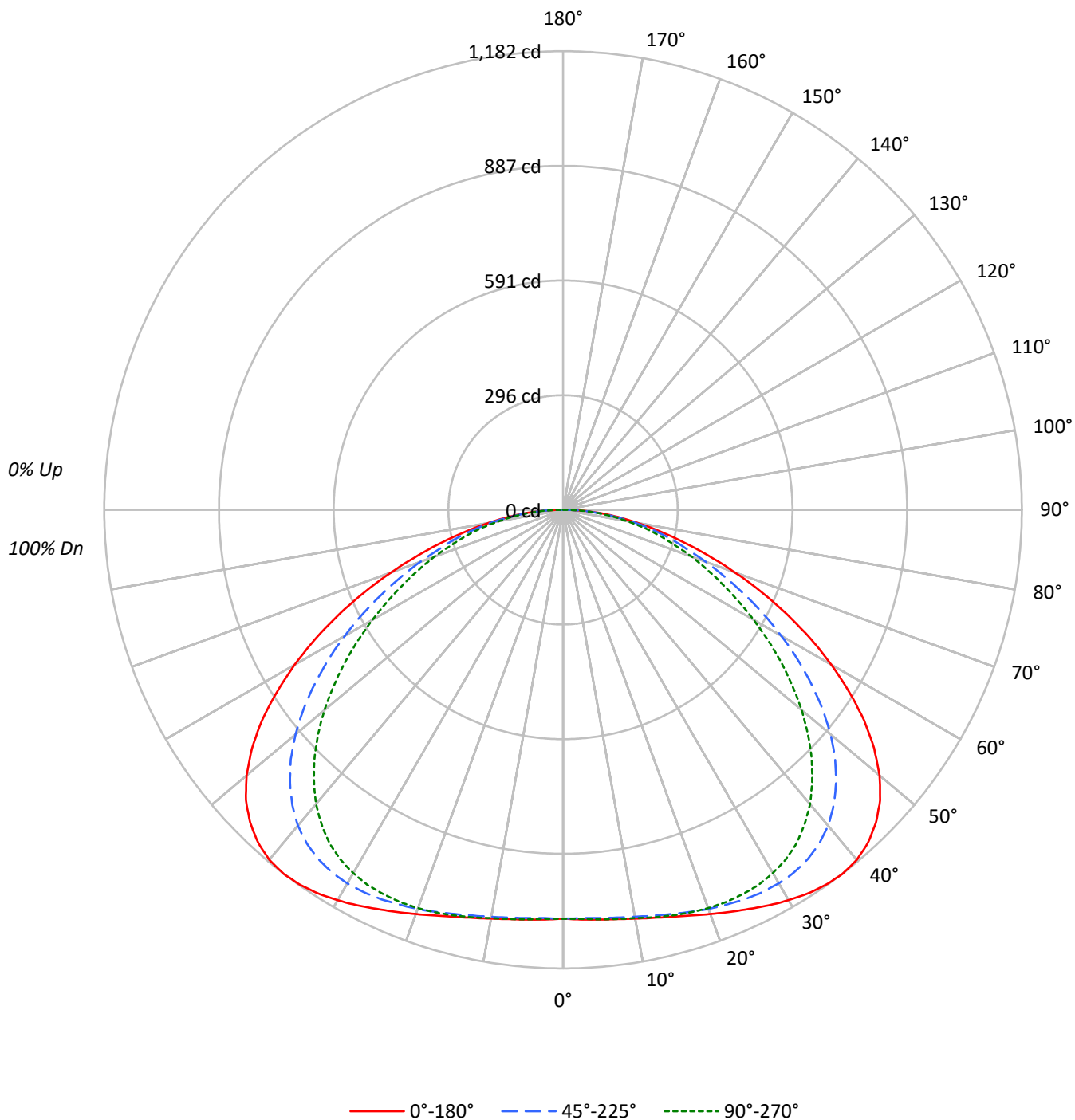
Lumens per Lamp: N/A
Luminaire Lumens: 4038.0 lumens
Efficiency: N/A
Efficacy: 127.4 lumens/watt
Spacing Criteria (0/90/45): 1.68 / 1.5 / 1.61
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 31.7
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°	2835	2835	2835
5°	2863	2852	2861
10°	2922	2910	2920
15°	3024	3005	3015
20°	3174	3135	3128
25°	3369	3288	3246
30°	3610	3454	3359
35°	3877	3610	3446
40°	4136	3733	3478
45°	4339	3785	3447
50°	4455	3765	3359
55°	4444	3661	3218
60°	4296	3493	3051
65°	4046	3281	2885
70°	3702	3072	2773
75°	3330	2958	2678
80°	3045	2875	2588
85°	2927	2748	2587

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 4465 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.3	2.5
10°-20°	307.0	7.6
20°-30°	513.8	12.7
30°-40°	692.3	17.1
40°-50°	776.6	19.2
50°-60°	712.6	17.6
60°-70°	527.0	13.1
70°-80°	306.6	7.6
80°-90°	100.8	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°	922.1	22.8
0°-40°	1614.4	40.0
0°-60°	3103.6	76.9
0°-90°	4038.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4038.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1054	1054	1054	1054	1054	
5°	1060	1060	1056	1056	1059	101
15°	1085	1083	1078	1080	1082	309
25°	1135	1126	1108	1095	1093	526
35°	1180	1155	1099	1061	1049	739
45°	1140	1097	995	927	906	876
55°	947	893	780	708	686	842
65°	635	597	515	468	453	628
75°	320	316	284	262	258	343
85°	95	98	89	90	84	104
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1053.7	1053.7	1053.7	1053.7	1053.7
2.5°	1056.9	1056.9	1053.2	1054.2	1055.3
5°	1060.0	1059.5	1055.8	1056.3	1059.0
7.5°	1063.7	1063.7	1060.0	1060.0	1063.7
10°	1069.5	1068.5	1064.8	1065.8	1068.5
12.5°	1076.9	1074.8	1071.1	1072.2	1075.3
15°	1085.3	1083.2	1078.5	1079.5	1082.2
17.5°	1096.4	1093.2	1086.4	1086.4	1088.0
20°	1108.5	1103.2	1094.8	1090.6	1092.2
22.5°	1121.7	1114.8	1101.1	1093.8	1094.3
25°	1134.8	1126.4	1107.5	1095.3	1093.2
27.5°	1149.1	1137.0	1111.1	1094.3	1090.1
30°	1161.7	1146.4	1111.7	1088.5	1081.1
32.5°	1172.8	1152.8	1108.0	1077.4	1067.9
35°	1180.2	1155.4	1099.0	1060.6	1049.0
37.5°	1182.3	1152.2	1084.3	1037.4	1022.1
40°	1177.5	1142.2	1062.7	1006.8	990.0
42.5°	1163.3	1124.3	1032.1	969.9	949.9
45°	1140.1	1096.9	994.7	927.3	905.7
47.5°	1108.0	1059.0	951.0	878.3	855.6
50°	1064.2	1012.6	899.3	825.1	802.4
52.5°	1010.0	956.2	841.9	768.7	744.4
55°	947.3	893.0	780.3	707.6	686.0
57.5°	874.1	824.0	715.5	646.5	625.9
60°	798.2	750.8	649.1	585.3	566.9
62.5°	718.1	674.9	582.2	524.7	508.9
65°	635.4	596.9	515.3	468.4	453.1
67.5°	552.7	523.2	451.5	409.9	401.5
70°	470.5	448.4	390.4	363.0	352.5
72.5°	392.5	380.9	332.4	314.0	299.8
75°	320.3	316.1	284.5	261.8	257.6
77.5°	255.0	261.3	233.9	217.6	213.9
80°	196.5	202.8	185.5	171.8	167.0
82.5°	143.3	151.7	134.3	131.2	126.4
85°	94.8	97.5	89.0	90.1	83.8
87.5°	46.4	51.6	46.9	48.5	45.3
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	17.8	19.5	18.2	19.8	20.2	16.0	17.7	16.4	18.0	18.3
	3H	19.6	21.1	19.9	21.4	21.8	17.7	19.3	18.1	19.6	20.0
	4H	20.2	21.7	20.6	22.0	22.4	18.4	19.9	18.8	20.2	20.6
	6H	20.7	22.0	21.1	22.4	22.8	19.0	20.4	19.4	20.7	21.1
	8H	20.9	22.2	21.3	22.6	23.0	19.2	20.5	19.7	20.9	21.3
	12H	21.0	22.2	21.4	22.6	23.1	19.4	20.6	19.8	21.0	21.5
4H	2H	18.2	19.7	18.6	20.0	20.4	16.8	18.2	17.2	18.6	19.0
	3H	20.2	21.5	20.6	21.8	22.2	18.7	19.9	19.1	20.3	20.7
	4H	21.0	22.1	21.5	22.5	23.0	19.5	20.7	20.0	21.1	21.5
	6H	21.7	22.7	22.1	23.1	23.6	20.3	21.2	20.7	21.7	22.1
	8H	21.9	22.8	22.4	23.3	23.7	20.5	21.4	21.0	21.9	22.3
	12H	22.1	22.9	22.6	23.4	23.9	20.8	21.6	21.2	22.1	22.5
8H	4H	21.3	22.2	21.7	22.6	23.1	20.0	20.9	20.4	21.3	21.8
	6H	22.1	22.8	22.6	23.3	23.8	20.8	21.6	21.3	22.1	22.5
	8H	22.4	23.1	22.9	23.6	24.1	21.2	21.9	21.7	22.4	22.9
	12H	22.7	23.3	23.2	23.8	24.4	21.5	22.1	22.0	22.6	23.2
12H	4H	21.3	22.1	21.8	22.6	23.1	20.0	20.9	20.5	21.3	21.8
	6H	22.1	22.8	22.7	23.3	23.8	20.9	21.6	21.5	22.1	22.6
	8H	22.5	23.1	23.0	23.6	24.2	21.4	22.0	21.9	22.5	23.0











(END OF REPORT)