

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: P1526980

Luminaire Tested: 14CGTX-42-F125-L835

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1526980
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-L835
Description: CGTX with F125 Lens Option

Light Source:
Ballast/Driver: -

Summary

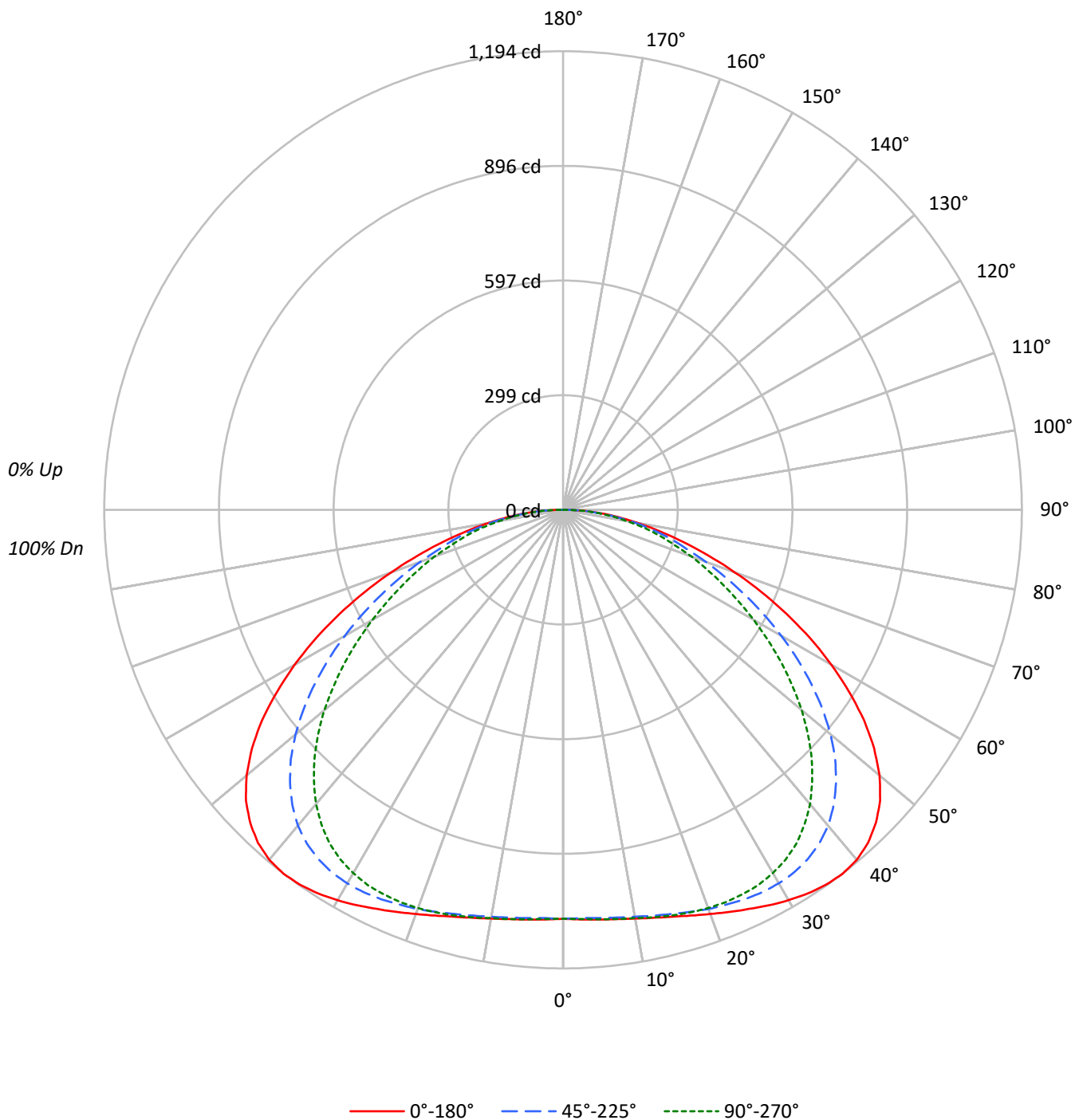
Lumens per Lamp: N/A
Luminaire Lumens: 4079.2 lumens
Efficiency: N/A
Efficacy: 128.7 lumens/watt
Spacing Criteria (0/90/45): 1.68 / 1.5 / 1.61
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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							
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	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°	2865	2865	2865
5°	2893	2881	2890
10°	2952	2939	2949
15°	3054	3035	3046
20°	3207	3167	3159
25°	3404	3322	3279
30°	3647	3489	3393
35°	3916	3647	3481
40°	4179	3771	3513
45°	4383	3824	3482
50°	4501	3803	3394
55°	4489	3698	3251
60°	4339	3529	3082
65°	4087	3314	2914
70°	3740	3103	2802
75°	3365	2988	2706
80°	3076	2903	2614
85°	2958	2776	2612

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 4510 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.3	2.5
10°-20°	310.2	7.6
20°-30°	519.0	12.7
30°-40°	699.4	17.1
40°-50°	784.5	19.2
50°-60°	719.8	17.6
60°-70°	532.4	13.1
70°-80°	309.7	7.6
80°-90°	101.8	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°	931.5	22.8
0°-40°	1630.9	40.0
0°-60°	3135.2	76.9
0°-90°	4079.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4079.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1064	1064	1064	1064	1064	
5°	1071	1070	1067	1067	1070	102
15°	1096	1094	1090	1090	1093	312
25°	1146	1138	1119	1106	1104	532
35°	1192	1167	1110	1071	1060	747
45°	1152	1108	1005	937	915	885
55°	957	902	788	715	693	850
65°	642	603	520	473	458	635
75°	324	319	287	264	260	347
85°	96	98	90	91	85	105
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1064.5	1064.5	1064.5	1064.5	1064.5
2.5°	1067.6	1067.6	1063.9	1065.0	1066.1
5°	1070.8	1070.3	1066.6	1067.1	1069.8
7.5°	1074.6	1074.6	1070.8	1070.8	1074.6
10°	1080.4	1079.4	1075.6	1076.7	1079.4
12.5°	1087.9	1085.7	1082.0	1083.1	1086.3
15°	1096.4	1094.3	1089.5	1090.5	1093.2
17.5°	1107.6	1104.4	1097.5	1097.5	1099.1
20°	1119.8	1114.5	1106.0	1101.7	1103.3
22.5°	1133.1	1126.2	1112.4	1104.9	1105.4
25°	1146.4	1137.9	1118.7	1106.5	1104.4
27.5°	1160.8	1148.5	1122.5	1105.4	1101.2
30°	1173.6	1158.1	1123.0	1099.6	1092.1
32.5°	1184.7	1164.5	1119.3	1088.4	1078.8
35°	1192.2	1167.2	1110.2	1071.4	1059.7
37.5°	1194.3	1164.0	1095.3	1048.0	1032.5
40°	1189.5	1153.9	1073.5	1017.1	1000.1
42.5°	1175.2	1135.8	1042.6	979.8	959.6
45°	1151.7	1108.1	1004.8	936.7	914.9
47.5°	1119.3	1069.8	960.7	887.2	864.3
50°	1075.1	1022.9	908.5	833.5	810.6
52.5°	1020.3	966.0	850.5	776.5	752.0
55°	956.9	902.1	788.2	714.8	693.0
57.5°	883.0	832.4	722.8	653.0	632.3
60°	806.3	758.4	655.7	591.3	572.7
62.5°	725.4	681.8	588.1	530.1	514.1
65°	641.9	603.0	520.5	473.2	457.7
67.5°	558.3	528.5	456.1	414.1	405.6
70°	475.3	452.9	394.4	366.7	356.1
72.5°	396.5	384.8	335.8	317.2	302.8
75°	323.6	319.3	287.4	264.5	260.3
77.5°	257.6	264.0	236.3	219.8	216.1
80°	198.5	204.9	187.3	173.5	168.7
82.5°	144.8	153.3	135.7	132.5	127.7
85°	95.8	98.5	89.9	91.0	84.6
87.5°	46.8	52.2	47.4	49.0	45.8
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	17.9	19.6	18.2	19.9	20.2	16.1	17.8	16.4	18.1	18.4
	3H	19.6	21.1	20.0	21.5	21.8	17.8	19.3	18.2	19.6	20.0
	4H	20.2	21.7	20.6	22.0	22.4	18.5	19.9	18.9	20.3	20.6
	6H	20.7	22.1	21.1	22.4	22.8	19.1	20.4	19.5	20.8	21.2
	8H	20.9	22.2	21.3	22.6	23.0	19.3	20.6	19.7	20.9	21.3
	12H	21.0	22.3	21.5	22.7	23.1	19.4	20.7	19.9	21.1	21.5
4H	2H	18.3	19.7	18.7	20.1	20.4	16.8	18.3	17.2	18.6	19.0
	3H	20.3	21.5	20.7	21.9	22.3	18.8	20.0	19.2	20.4	20.8
	4H	21.1	22.2	21.5	22.6	23.0	19.6	20.7	20.0	21.1	21.5
	6H	21.7	22.7	22.2	23.1	23.6	20.3	21.3	20.7	21.7	22.2
	8H	22.0	22.9	22.4	23.3	23.8	20.6	21.5	21.0	21.9	22.4
	12H	22.2	23.0	22.6	23.5	23.9	20.8	21.6	21.3	22.1	22.6
8H	4H	21.3	22.2	21.8	22.7	23.1	20.0	20.9	20.5	21.4	21.8
	6H	22.1	22.9	22.6	23.4	23.8	20.9	21.6	21.3	22.1	22.6
	8H	22.5	23.1	23.0	23.6	24.1	21.2	21.9	21.7	22.4	22.9
	12H	22.7	23.4	23.2	23.8	24.4	21.6	22.2	22.1	22.7	23.2
12H	4H	21.3	22.2	21.8	22.6	23.1	20.1	20.9	20.6	21.4	21.8
	6H	22.2	22.9	22.7	23.3	23.9	21.0	21.7	21.5	22.1	22.7
	8H	22.6	23.2	23.1	23.7	24.2	21.4	22.0	21.9	22.5	23.1













(END OF REPORT)