

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: P1527055

Luminaire Tested: 22CGTX-50HE-F125-L940

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1527055
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2507-496-2)
Test Lab: INNOVATION CENTER
Issue Date: 8/24/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 22CGTX-50HE-F125-L940
Description: CGTX with F125 Lens Option

Light Source:
Ballast/Driver: -

Summary

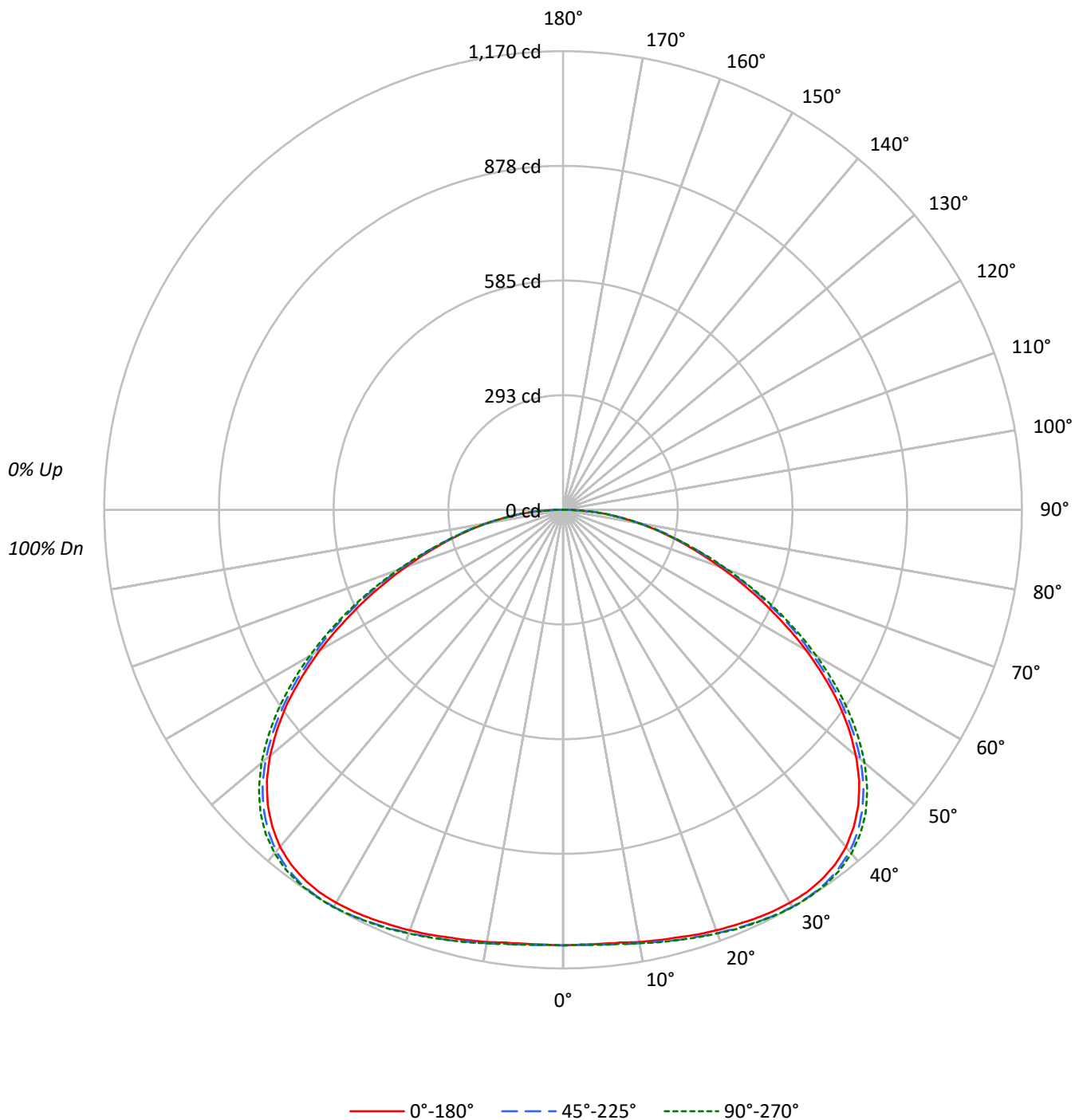
Lumens per Lamp: N/A
Luminaire Lumens: 4313.0 lumens
Efficiency: N/A
Efficacy: 107.8 lumens/watt
Spacing Criteria (0/90/45): 1.56 / 1.58 / 1.65
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 40
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	98	94	105	101	97	93	96	93	90		92	90	87		89	87	84	82
2	98	89	82	76	95	87	80	75	83	78	73		80	75	71		77	73	70	67
3	89	77	69	62	86	76	68	61	73	66	60		70	64	59		67	62	58	56
4	81	68	59	52	78	67	58	51	64	57	51		62	55	50		59	54	49	47
5	74	60	51	44	72	59	50	44	57	49	43		55	48	43		53	47	42	40
6	68	54	45	38	66	53	44	38	51	43	37		49	42	37		48	41	37	34
7	63	49	39	33	61	48	39	33	46	38	33		45	38	32		43	37	32	30
8	58	44	35	29	57	43	35	29	42	34	29		41	34	29		39	33	28	26
9	54	40	32	26	53	40	31	26	38	31	26		37	30	26		36	30	25	24
10	51	37	29	23	49	36	29	23	35	28	23		34	28	23		34	27	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2990	2990	2990
5°	3001	3008	3008
10°	3059	3068	3068
15°	3146	3165	3165
20°	3269	3291	3293
25°	3419	3449	3451
30°	3596	3635	3637
35°	3780	3826	3834
40°	3944	3996	4019
45°	4053	4109	4153
50°	4081	4144	4202
55°	4020	4082	4156
60°	3852	3936	4021
65°	3611	3743	3806
70°	3358	3482	3520
75°	3150	3236	3236
80°	3045	3082	3058
85°	2958	3060	2958

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 50°

Luminance: 4202 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.6	2.5
10°-20°	322.0	7.5
20°-30°	536.6	12.4
30°-40°	727.0	16.9
40°-50°	829.2	19.2
50°-60°	775.1	18.0
60°-70°	578.8	13.4
70°-80°	330.5	7.7
80°-90°	107.3	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°	965.2	22.4
0°-40°	1692.2	39.2
0°-60°	3296.4	76.4
0°-90°	4313.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4313.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1111	1111	1111	1111	1111	
5°	1111	1113	1114	1114	1114	106
15°	1129	1133	1136	1137	1136	321
25°	1152	1156	1162	1163	1162	533
35°	1151	1156	1165	1168	1167	720
45°	1065	1070	1080	1087	1091	818
55°	857	859	870	880	886	762
65°	567	575	588	591	598	562
75°	303	308	311	312	311	323
85°	96	100	99	97	96	105
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1111.1	1111.1	1111.1	1111.1	1111.1
2.5°	1110.3	1111.1	1111.1	1112.8	1110.3
5°	1111.1	1112.8	1113.6	1114.4	1113.6
7.5°	1113.6	1116.1	1117.7	1118.5	1116.9
10°	1119.4	1121.0	1122.7	1124.3	1122.7
12.5°	1124.3	1126.8	1128.4	1130.9	1130.1
15°	1129.3	1132.6	1135.9	1136.7	1135.9
17.5°	1135.9	1138.4	1141.7	1143.3	1143.3
20°	1141.7	1145.0	1149.1	1150.7	1149.9
22.5°	1146.6	1150.7	1155.7	1158.2	1157.3
25°	1151.6	1155.7	1161.5	1163.1	1162.3
27.5°	1155.7	1160.6	1166.4	1168.9	1167.2
30°	1157.3	1162.3	1169.7	1171.4	1170.5
32.5°	1156.5	1161.5	1168.9	1171.4	1170.5
35°	1150.7	1156.5	1164.8	1168.1	1167.2
37.5°	1140.0	1145.8	1154.0	1158.2	1159.0
40°	1122.7	1128.4	1137.5	1143.3	1144.1
42.5°	1097.1	1102.9	1112.8	1119.4	1121.8
45°	1064.9	1069.8	1079.7	1087.2	1091.3
47.5°	1024.4	1028.6	1039.3	1047.5	1051.7
50°	974.9	979.0	989.8	998.0	1003.8
52.5°	918.8	922.1	932.8	942.7	947.7
55°	856.9	859.3	870.1	880.0	885.8
57.5°	786.7	794.1	802.4	811.5	818.1
60°	715.7	721.5	731.4	740.5	747.1
62.5°	639.8	650.5	662.0	667.0	672.8
65°	567.1	575.4	587.8	591.1	597.7
67.5°	495.3	504.4	515.1	517.6	521.7
70°	426.8	434.2	442.5	445.8	447.4
72.5°	362.4	368.2	373.9	376.4	376.4
75°	303.0	307.9	311.2	312.0	311.2
77.5°	249.3	250.1	257.6	252.6	251.8
80°	196.5	196.5	198.9	198.9	197.3
82.5°	145.3	148.6	147.8	146.9	144.5
85°	95.8	99.9	99.1	97.4	95.8
87.5°	47.1	52.0	49.5	52.0	47.9
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	17.2	18.9	17.6	19.3	19.6	17.4	19.1	17.8	19.4	19.7
	3H	18.9	20.5	19.3	20.8	21.2	19.1	20.7	19.5	21.0	21.4
	4H	19.6	21.0	20.0	21.4	21.8	19.8	21.2	20.2	21.6	22.0
	6H	20.1	21.5	20.5	21.8	22.2	20.3	21.6	20.7	22.0	22.4
	8H	20.3	21.6	20.7	22.0	22.4	20.5	21.8	20.9	22.2	22.6
	12H	20.5	21.7	20.9	22.1	22.5	20.6	21.9	21.0	22.2	22.7
4H	2H	17.9	19.3	18.3	19.7	20.1	18.0	19.5	18.4	19.8	20.2
	3H	19.8	21.0	20.2	21.4	21.8	20.0	21.2	20.4	21.6	22.0
	4H	20.6	21.7	21.0	22.1	22.5	20.7	21.9	21.2	22.3	22.7
	6H	21.2	22.2	21.7	22.7	23.1	21.4	22.4	21.8	22.8	23.3
	8H	21.5	22.4	22.0	22.9	23.3	21.6	22.6	22.1	23.0	23.5
	12H	21.7	22.5	22.2	23.0	23.5	21.8	22.7	22.3	23.1	23.6
8H	4H	20.9	21.8	21.4	22.3	22.7	21.1	22.0	21.5	22.4	22.9
	6H	21.7	22.5	22.2	23.0	23.4	21.8	22.6	22.3	23.1	23.6
	8H	22.1	22.8	22.6	23.3	23.7	22.2	22.9	22.7	23.4	23.9
	12H	22.4	23.0	22.9	23.5	24.0	22.5	23.1	23.0	23.6	24.1
12H	4H	21.0	21.8	21.4	22.3	22.7	21.1	21.9	21.6	22.4	22.9
	6H	21.8	22.5	22.3	23.0	23.5	21.9	22.6	22.4	23.1	23.6
	8H	22.2	22.8	22.7	23.3	23.9	22.3	22.9	22.8	23.4	24.0















(END OF REPORT)