

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: P1527077

Luminaire Tested: 24CGTX-20HE-F125-L840

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1527077
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2507-496-1)
Test Lab: INNOVATION CENTER
Issue Date: 8/24/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 24CGTX-20HE-F125-L840
Description: CGTX with F125 Lens Option

Light Source:
Ballast/Driver: -

Summary

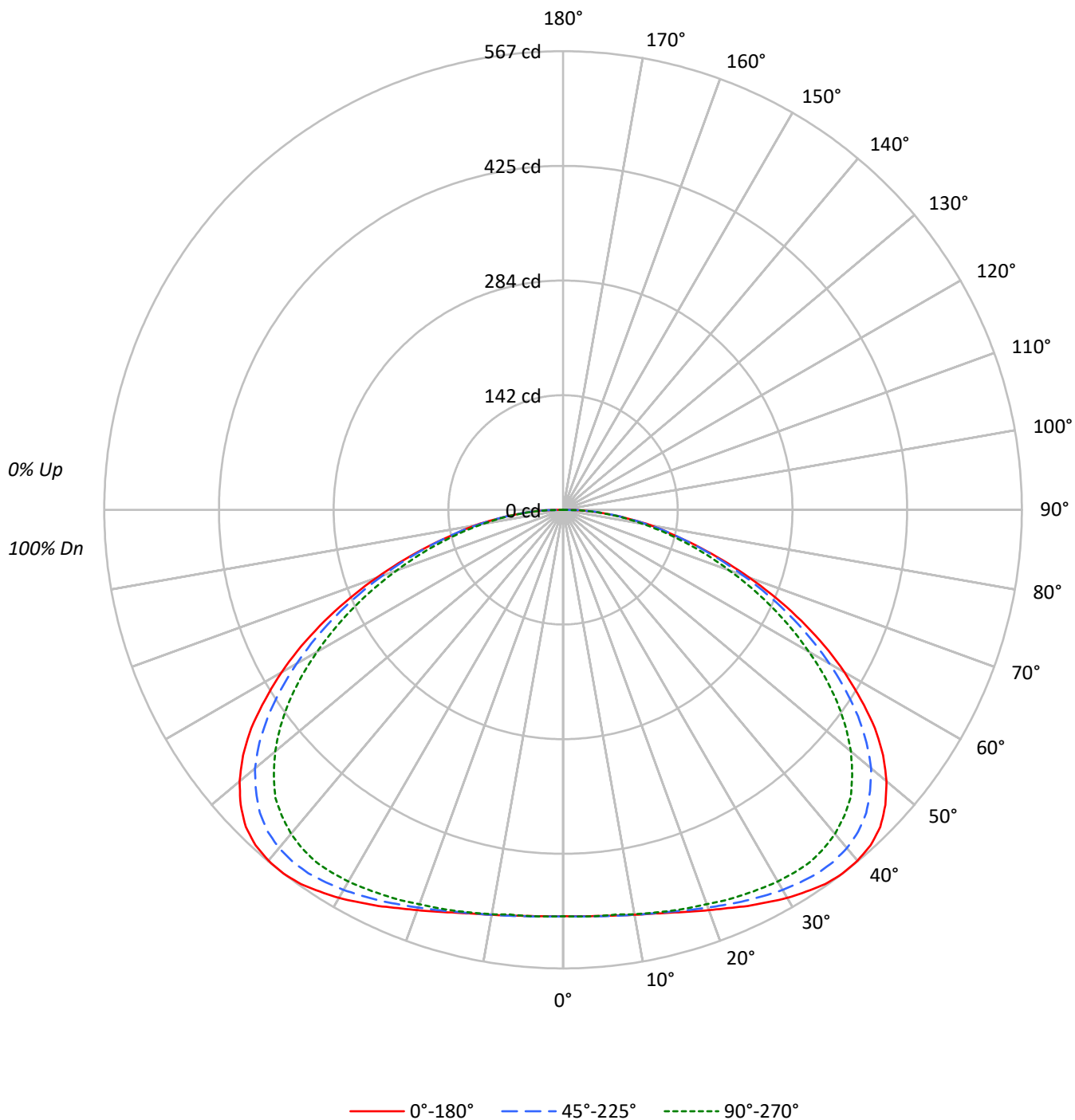
Lumens per Lamp: N/A
Luminaire Lumens: 2125.0 lumens
Efficiency: N/A
Efficacy: 142.6 lumens/watt
Spacing Criteria (0/90/45): 1.69 / 1.6 / 1.72
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 14.9
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			
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	102	98	94	105	100	96	92	96	92	89		92	89	86		88	86	84	82
2	97	88	81	74	94	86	79	74	83	77	72		79	74	70		76	72	69	66
3	88	76	68	61	85	75	67	60	72	65	59		69	63	58		66	61	57	54
4	80	67	57	50	77	66	57	50	63	55	49		61	54	48		58	53	48	45
5	73	59	50	43	71	58	49	42	56	48	42		54	47	41		52	46	41	39
6	67	53	43	36	65	52	43	36	50	42	36		48	41	36		47	40	35	33
7	62	47	38	32	60	47	38	32	45	37	31		44	36	31		42	36	31	29
8	57	43	34	28	56	42	34	28	41	33	28		40	33	27		38	32	27	25
9	53	39	31	25	52	39	30	25	37	30	25		36	29	24		35	29	24	22
10	50	36	28	22	48	35	27	22	34	27	22		33	27	22		33	26	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	676	676	676
5°	681	681	681
10°	695	695	694
15°	718	717	715
20°	754	749	743
25°	802	792	780
30°	861	843	825
35°	928	901	874
40°	995	959	918
45°	1055	1008	957
50°	1092	1040	972
55°	1104	1044	969
60°	1081	1023	944
65°	1035	985	907
70°	964	932	859
75°	882	876	813
80°	855	838	778
85°	795	829	778

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 55°

Luminance: 1104 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.3	2.3
10°-20°	146.2	6.9
20°-30°	246.9	11.6
30°-40°	343.5	16.2
40°-50°	406.6	19.1
50°-60°	394.4	18.6
60°-70°	303.9	14.3
70°-80°	177.3	8.3
80°-90°	58.0	2.7
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°	441.3	20.8
0°-40°	784.8	36.9
0°-60°	1585.8	74.6
0°-90°	2125.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2125.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	502	502	502	502	502	
5°	504	504	504	504	504	48
15°	516	516	514	513	513	147
25°	540	538	533	528	526	250
35°	565	560	548	537	532	354
45°	554	547	530	512	503	426
55°	471	462	445	424	413	418
65°	325	321	309	294	285	321
75°	170	174	169	161	156	182
85°	52	54	54	53	50	58
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	502.5	502.5	502.5	502.5	502.5
2.5°	502.9	503.3	503.3	503.3	503.3
5°	504.0	504.4	504.4	504.4	504.0
7.5°	505.8	505.8	506.2	505.8	504.7
10°	508.4	508.4	508.4	508.1	507.7
12.5°	511.4	511.8	511.0	510.7	510.3
15°	515.5	515.5	514.4	513.3	513.3
17.5°	521.0	520.3	518.8	517.0	516.2
20°	526.6	525.9	523.3	520.3	518.8
22.5°	532.9	531.4	528.1	524.0	522.5
25°	540.3	538.1	533.3	527.7	525.5
27.5°	547.0	544.0	538.1	531.8	528.1
30°	554.0	550.3	542.5	534.4	530.7
32.5°	559.6	555.9	545.9	536.6	531.8
35°	564.8	560.0	548.5	537.0	531.8
37.5°	567.0	561.8	548.5	535.1	528.5
40°	566.3	560.7	545.9	530.7	522.9
42.5°	562.5	555.9	539.9	522.9	514.0
45°	554.4	547.0	529.9	511.8	502.9
47.5°	540.3	532.9	514.7	495.5	484.7
50°	521.8	514.0	497.0	475.5	464.3
52.5°	498.4	490.7	472.9	451.0	440.3
55°	470.6	462.5	445.1	424.3	413.2
57.5°	436.5	430.6	413.6	393.9	383.2
60°	401.7	395.8	380.2	361.7	350.9
62.5°	364.3	359.5	345.4	328.0	318.7
65°	325.0	321.3	309.4	293.5	285.0
67.5°	285.0	283.5	272.8	259.0	251.6
70°	245.0	245.7	236.8	224.6	218.3
72.5°	206.0	208.6	201.6	191.6	187.1
75°	169.7	173.8	168.6	160.8	156.4
77.5°	136.0	141.6	137.1	131.2	127.5
80°	110.4	110.1	108.2	103.8	100.4
82.5°	79.3	80.8	79.7	77.1	75.2
85°	51.5	54.1	53.7	52.6	50.4
87.5°	25.6	28.5	28.9	28.2	27.1
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	13.0	14.8	13.4	15.1	15.4	12.4	14.1	12.7	14.4	14.7
	3H	14.8	16.4	15.2	16.8	17.1	14.2	15.7	14.5	16.1	16.4
	4H	15.5	17.0	15.9	17.4	17.7	14.8	16.3	15.2	16.7	17.1
	6H	16.0	17.4	16.5	17.8	18.2	15.4	16.8	15.8	17.1	17.5
	8H	16.2	17.6	16.7	18.0	18.4	15.6	16.9	16.0	17.3	17.7
	12H	16.4	17.7	16.8	18.0	18.5	15.8	17.0	16.2	17.4	17.8
4H	2H	13.6	15.1	14.0	15.5	15.8	13.1	14.6	13.5	14.9	15.3
	3H	15.7	16.9	16.1	17.3	17.7	15.1	16.4	15.5	16.8	17.2
	4H	16.5	17.6	16.9	18.0	18.5	15.9	17.1	16.4	17.5	17.9
	6H	17.2	18.2	17.6	18.6	19.1	16.6	17.6	17.1	18.1	18.5
	8H	17.4	18.4	17.9	18.8	19.3	16.9	17.8	17.3	18.3	18.7
	12H	17.6	18.5	18.1	19.0	19.4	17.1	18.0	17.6	18.4	18.9
8H	4H	16.8	17.8	17.3	18.2	18.7	16.3	17.3	16.8	17.7	18.2
	6H	17.6	18.4	18.1	18.9	19.4	17.1	17.9	17.6	18.4	18.9
	8H	18.0	18.7	18.5	19.2	19.7	17.5	18.2	18.0	18.7	19.2
	12H	18.3	18.9	18.8	19.4	19.9	17.8	18.4	18.3	18.9	19.5
12H	4H	16.9	17.7	17.3	18.2	18.6	16.4	17.2	16.8	17.7	18.2
	6H	17.7	18.4	18.2	18.9	19.4	17.3	18.0	17.8	18.4	19.0
	8H	18.1	18.7	18.6	19.2	19.8	17.7	18.3	18.2	18.8	19.3















(END OF REPORT)