

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: P1527078

Luminaire Tested: 24CGTX-20HE-F125-L850

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1527078
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-L850
Description: CGTX with F125 Lens Option

Light Source:
Ballast/Driver: -

Summary

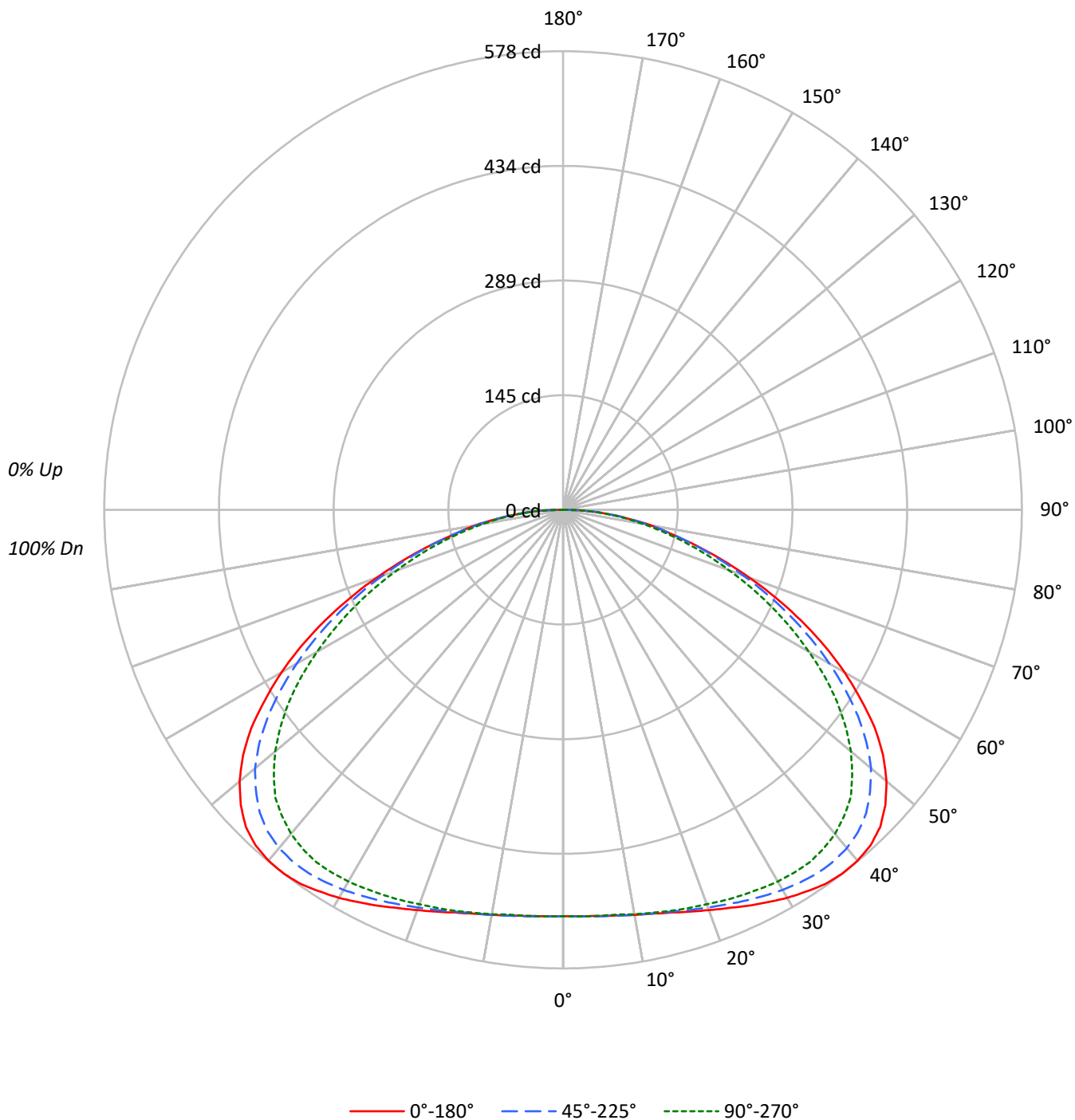
Lumens per Lamp: N/A
Luminaire Lumens: 2166.0 lumens
Efficiency: N/A
Efficacy: 145.4 lumens/watt
Spacing Criteria (0/90/45): 1.69 / 1.6 / 1.72
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	108	102	98	94	105	100	96	92	96	92	89		92	89	86		88
2	97	88	81	74	94	86	79	74	83	77	72		79	74	70		76
3	88	76	68	61	85	75	67	60	72	65	59		69	63	58		66
4	80	67	57	50	77	66	57	50	63	55	49		61	54	48		58
5	73	59	50	43	71	58	49	42	56	48	42		54	47	41		52
6	67	53	43	36	65	52	43	36	50	42	36		48	41	36		47
7	62	47	38	32	60	47	38	32	45	37	31		44	36	31		42
8	57	43	34	28	56	42	34	28	41	33	28		40	33	27		38
9	53	39	31	25	52	39	30	25	37	30	25		36	29	24		35
10	50	36	28	22	48	35	27	22	34	27	22		33	27	22		33

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	689	689	689
5°	694	694	694
10°	708	708	707
15°	732	730	729
20°	769	764	757
25°	818	807	795
30°	877	859	840
35°	946	918	890
40°	1014	977	936
45°	1075	1028	975
50°	1113	1060	991
55°	1125	1064	988
60°	1102	1043	963
65°	1055	1004	925
70°	982	950	875
75°	899	894	829
80°	872	855	793
85°	810	846	794

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 55°

Luminance: 1125 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.2	2.3
10°-20°	149.0	6.9
20°-30°	251.7	11.6
30°-40°	350.1	16.2
40°-50°	414.4	19.1
50°-60°	402.1	18.6
60°-70°	309.8	14.3
70°-80°	180.8	8.3
80°-90°	59.1	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°	449.9	20.8
0°-40°	799.9	36.9
0°-60°	1616.4	74.6
0°-90°	2166.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2166.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	512	512	512	512	512	
5°	514	514	514	514	514	49
15°	525	525	524	523	523	149
25°	551	548	544	538	536	255
35°	576	571	559	547	542	361
45°	565	558	540	522	513	434
55°	480	471	454	432	421	426
65°	331	328	315	299	290	327
75°	173	177	172	164	159	185
85°	52	55	55	54	51	59
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	512.2	512.2	512.2	512.2	512.2
2.5°	512.6	513.0	513.0	513.0	513.0
5°	513.7	514.1	514.1	514.1	513.7
7.5°	515.6	515.6	516.0	515.6	514.5
10°	518.3	518.3	518.3	517.9	517.5
12.5°	521.3	521.7	520.9	520.5	520.1
15°	525.4	525.4	524.3	523.2	523.2
17.5°	531.1	530.3	528.8	526.9	526.2
20°	536.8	536.0	533.4	530.3	528.8
22.5°	543.2	541.7	538.3	534.1	532.6
25°	550.7	548.5	543.6	537.9	535.6
27.5°	557.5	554.5	548.5	542.0	538.3
30°	564.7	560.9	553.0	544.7	540.9
32.5°	570.4	566.6	556.4	547.0	542.0
35°	575.7	570.8	559.0	547.3	542.0
37.5°	577.9	572.6	559.0	545.4	538.6
40°	577.2	571.5	556.4	540.9	533.0
42.5°	573.4	566.6	550.4	533.0	523.9
45°	565.1	557.5	540.2	521.7	512.6
47.5°	550.7	543.2	524.7	505.0	494.1
50°	531.9	523.9	506.5	484.6	473.3
52.5°	508.1	500.1	482.0	459.7	448.7
55°	479.7	471.4	453.7	432.5	421.2
57.5°	445.0	438.9	421.6	401.5	390.6
60°	409.5	403.4	387.6	368.7	357.7
62.5°	371.3	366.4	352.0	334.3	324.9
65°	331.3	327.5	315.4	299.2	290.5
67.5°	290.5	289.0	278.0	264.0	256.5
70°	249.7	250.4	241.4	228.9	222.5
72.5°	210.0	212.7	205.5	195.3	190.8
75°	173.0	177.2	171.9	163.9	159.4
77.5°	138.6	144.3	139.8	133.7	129.9
80°	112.6	112.2	110.3	105.8	102.4
82.5°	80.8	82.3	81.2	78.6	76.7
85°	52.5	55.1	54.8	53.6	51.4
87.5°	26.1	29.1	29.5	28.7	27.6
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	13.1	14.8	13.5	15.1	15.5	12.4	14.2	12.8	14.5	14.8
	3H	14.9	16.5	15.3	16.8	17.2	14.2	15.8	14.6	16.1	16.5
	4H	15.6	17.1	16.0	17.4	17.8	14.9	16.4	15.3	16.7	17.1
	6H	16.1	17.5	16.5	17.9	18.2	15.5	16.8	15.9	17.2	17.6
	8H	16.3	17.6	16.7	18.0	18.4	15.7	17.0	16.1	17.4	17.8
	12H	16.5	17.7	16.9	18.1	18.5	15.8	17.1	16.3	17.5	17.9
4H	2H	13.7	15.2	14.1	15.5	15.9	13.2	14.7	13.6	15.0	15.4
	3H	15.7	17.0	16.2	17.4	17.8	15.2	16.4	15.6	16.8	17.2
	4H	16.6	17.7	17.0	18.1	18.5	16.0	17.1	16.4	17.5	18.0
	6H	17.2	18.2	17.7	18.7	19.1	16.7	17.7	17.1	18.1	18.6
	8H	17.5	18.4	17.9	18.9	19.3	16.9	17.9	17.4	18.3	18.8
	12H	17.7	18.5	18.2	19.0	19.5	17.2	18.0	17.6	18.5	19.0
8H	4H	16.9	17.8	17.3	18.3	18.7	16.4	17.3	16.8	17.8	18.2
	6H	17.7	18.5	18.2	19.0	19.4	17.2	18.0	17.7	18.5	19.0
	8H	18.0	18.7	18.5	19.3	19.7	17.6	18.3	18.1	18.8	19.3
	12H	18.3	19.0	18.8	19.5	20.0	17.9	18.5	18.4	19.0	19.6
12H	4H	16.9	17.8	17.4	18.2	18.7	16.4	17.3	16.9	17.8	18.2
	6H	17.8	18.5	18.3	19.0	19.5	17.3	18.0	17.8	18.5	19.0
	8H	18.2	18.8	18.7	19.3	19.9	17.7	18.4	18.2	18.8	19.4













(END OF REPORT)