

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: P1527071

Luminaire Tested: 24CGTX-20-F125-L830

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1527071
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-20-F125-L830
Description: CGTX with F125 Lens Option

Light Source:
Ballast/Driver: -

Summary

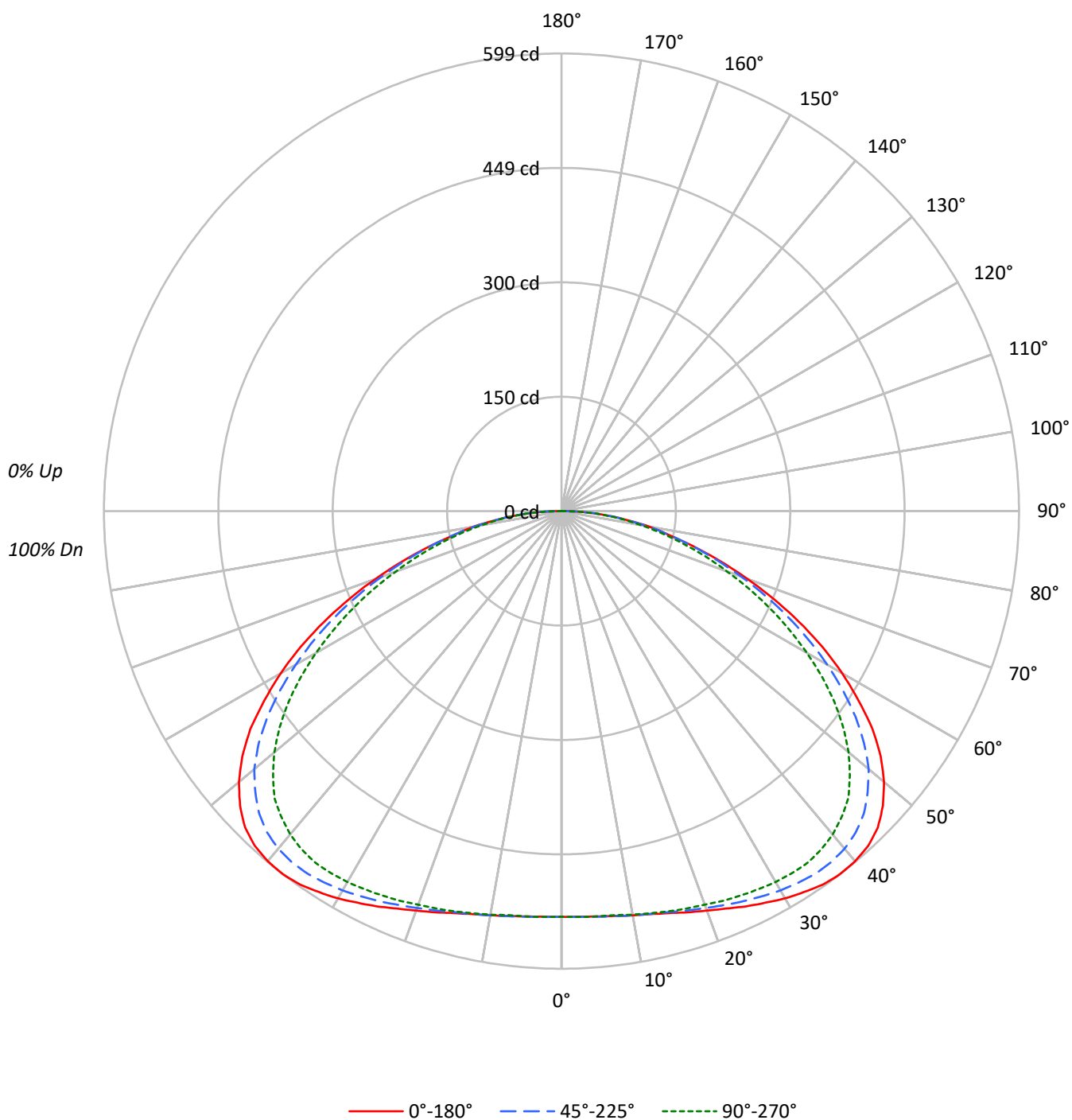
Lumens per Lamp: N/A
Luminaire Lumens: 2245.0 lumens
Efficiency: N/A
Efficacy: 134.4 lumens/watt
Spacing Criteria (0/90/45): 1.69 / 1.6 / 1.72
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 16.7
Input Voltage (V):
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.9
Total Harmonic Distortion (THDi): ≈20%
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°	714	714	714
5°	719	720	719
10°	734	734	733
15°	759	757	755
20°	797	792	785
25°	847	836	824
30°	909	891	871
35°	980	952	923
40°	1051	1013	970
45°	1114	1065	1011
50°	1154	1099	1027
55°	1166	1103	1024
60°	1142	1081	998
65°	1093	1041	959
70°	1018	984	907
75°	932	926	859
80°	904	886	822
85°	840	877	821

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 55°

Luminance: 1166 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.0	2.3
10°-20°	154.4	6.9
20°-30°	260.8	11.6
30°-40°	362.8	16.2
40°-50°	429.5	19.1
50°-60°	416.7	18.6
60°-70°	321.1	14.3
70°-80°	187.3	8.3
80°-90°	61.2	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°	466.3	20.8
0°-40°	829.1	36.9
0°-60°	1675.4	74.6
0°-90°	2245.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2245.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	531	531	531	531	531	
5°	532	533	533	533	532	51
15°	545	545	543	542	542	155
25°	571	568	563	558	555	265
35°	597	592	579	567	562	374
45°	586	578	560	541	531	450
55°	497	489	470	448	436	441
65°	343	339	327	310	301	339
75°	179	184	178	170	165	192
85°	54	57	57	56	53	61
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	530.9	530.9	530.9	530.9	530.9
2.5°	531.3	531.7	531.7	531.7	531.7
5°	532.5	532.8	532.8	532.8	532.5
7.5°	534.4	534.4	534.8	534.4	533.2
10°	537.2	537.2	537.2	536.8	536.4
12.5°	540.3	540.7	539.9	539.5	539.1
15°	544.6	544.6	543.4	542.2	542.2
17.5°	550.5	549.7	548.1	546.2	545.4
20°	556.3	555.6	552.8	549.7	548.1
22.5°	563.0	561.4	557.9	553.6	552.0
25°	570.8	568.5	563.4	557.5	555.2
27.5°	577.9	574.7	568.5	561.8	557.9
30°	585.3	581.4	573.2	564.6	560.6
32.5°	591.2	587.3	576.7	566.9	561.8
35°	596.7	591.6	579.4	567.3	561.8
37.5°	599.0	593.5	579.4	565.3	558.3
40°	598.2	592.4	576.7	560.6	552.4
42.5°	594.3	587.3	570.4	552.4	543.0
45°	585.7	577.9	559.9	540.7	531.3
47.5°	570.8	563.0	543.8	523.5	512.1
50°	551.2	543.0	525.0	502.3	490.6
52.5°	526.6	518.4	499.6	476.5	465.1
55°	497.2	488.6	470.2	448.3	436.5
57.5°	461.2	454.9	436.9	416.2	404.8
60°	424.4	418.1	401.7	382.1	370.8
62.5°	384.9	379.8	364.9	346.5	336.7
65°	343.4	339.4	326.9	310.1	301.1
67.5°	301.1	299.5	288.2	273.7	265.8
70°	258.8	259.6	250.2	237.3	230.6
72.5°	217.7	220.4	213.0	202.4	197.7
75°	179.3	183.6	178.1	169.9	165.2
77.5°	143.7	149.6	144.9	138.6	134.7
80°	116.7	116.3	114.3	109.6	106.1
82.5°	83.8	85.3	84.2	81.4	79.5
85°	54.4	57.2	56.8	55.6	53.2
87.5°	27.0	30.1	30.5	29.8	28.6
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	13.2	15.0	13.6	15.3	15.6	12.6	14.3	12.9	14.6	14.9
	3H	15.0	16.6	15.4	16.9	17.3	14.3	15.9	14.7	16.2	16.6
	4H	15.7	17.2	16.1	17.5	17.9	15.0	16.5	15.4	16.9	17.2
	6H	16.2	17.6	16.6	18.0	18.4	15.6	17.0	16.0	17.3	17.7
	8H	16.4	17.8	16.9	18.1	18.5	15.8	17.1	16.2	17.5	17.9
	12H	16.6	17.8	17.0	18.2	18.7	16.0	17.2	16.4	17.6	18.0
4H	2H	13.8	15.3	14.2	15.7	16.0	13.3	14.8	13.7	15.1	15.5
	3H	15.9	17.1	16.3	17.5	17.9	15.3	16.6	15.7	17.0	17.4
	4H	16.7	17.8	17.1	18.2	18.7	16.1	17.3	16.5	17.7	18.1
	6H	17.4	18.4	17.8	18.8	19.3	16.8	17.8	17.3	18.2	18.7
	8H	17.6	18.6	18.1	19.0	19.5	17.1	18.0	17.5	18.5	18.9
	12H	17.8	18.7	18.3	19.1	19.6	17.3	18.1	17.8	18.6	19.1
8H	4H	17.0	17.9	17.5	18.4	18.8	16.5	17.4	17.0	17.9	18.3
	6H	17.8	18.6	18.3	19.1	19.6	17.3	18.1	17.8	18.6	19.1
	8H	18.2	18.9	18.7	19.4	19.9	17.7	18.4	18.2	18.9	19.4
	12H	18.5	19.1	19.0	19.6	20.1	18.0	18.6	18.5	19.1	19.7
12H	4H	17.0	17.9	17.5	18.4	18.8	16.6	17.4	17.0	17.9	18.4
	6H	17.9	18.6	18.4	19.1	19.6	17.4	18.2	18.0	18.6	19.1
	8H	18.3	18.9	18.8	19.4	20.0	17.9	18.5	18.4	19.0	19.5















(END OF REPORT)