

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: P1527074

Luminaire Tested: 24CGTX-20-F125-L850

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1527074
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-L850
Description: CGTX with F125 Lens Option

Light Source:
Ballast/Driver: -

Summary

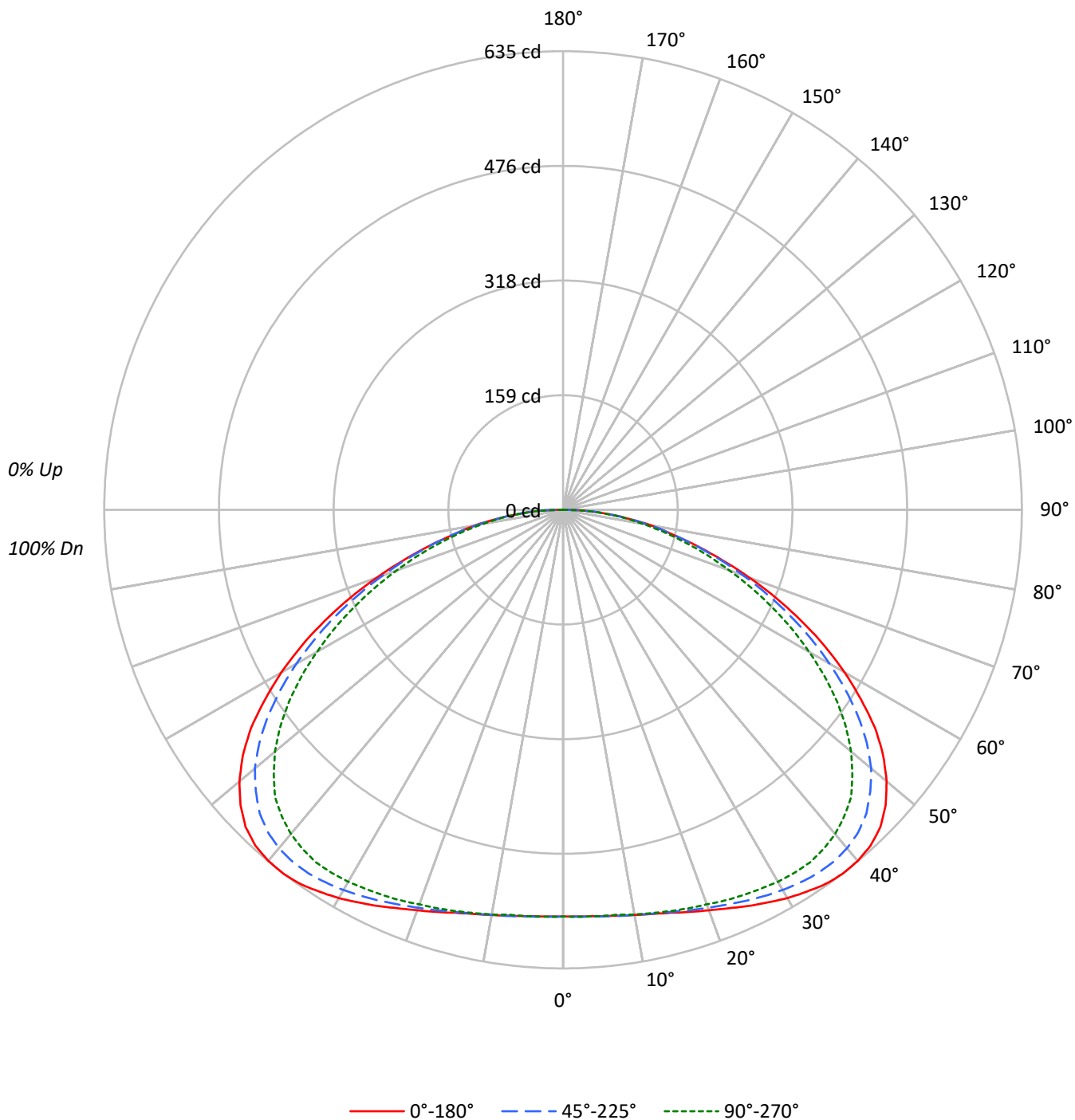
Lumens per Lamp: N/A
Luminaire Lumens: 2381.0 lumens
Efficiency: N/A
Efficacy: 142.6 lumens/watt
Spacing Criteria (0/90/45): 1.69 / 1.6 / 1.72
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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				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°	758	758	758
5°	763	763	763
10°	778	778	777
15°	805	803	801
20°	845	839	832
25°	899	887	874
30°	964	944	924
35°	1039	1009	979
40°	1114	1074	1029
45°	1182	1130	1072
50°	1224	1165	1089
55°	1237	1170	1086
60°	1211	1146	1058
65°	1160	1104	1017
70°	1080	1044	962
75°	989	982	911
80°	958	939	872
85°	891	929	872

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 55°

Luminance: 1237 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.1	2.3
10°-20°	163.8	6.9
20°-30°	276.6	11.6
30°-40°	384.8	16.2
40°-50°	455.5	19.1
50°-60°	442.0	18.6
60°-70°	340.5	14.3
70°-80°	198.7	8.3
80°-90°	64.9	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°	494.5	20.8
0°-40°	879.3	36.9
0°-60°	1776.8	74.6
0°-90°	2381.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2381.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	563	563	563	563	563	
5°	565	565	565	565	565	54
15°	578	578	576	575	575	164
25°	605	603	598	591	589	281
35°	633	627	614	602	596	396
45°	621	613	594	573	564	477
55°	527	518	499	475	463	468
65°	364	360	347	329	319	360
75°	190	195	189	180	175	204
85°	58	61	60	59	56	65
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	563.1	563.1	563.1	563.1	563.1
2.5°	563.5	563.9	563.9	563.9	563.9
5°	564.7	565.1	565.1	565.1	564.7
7.5°	566.8	566.8	567.2	566.8	565.5
10°	569.7	569.7	569.7	569.3	568.9
12.5°	573.0	573.4	572.6	572.2	571.8
15°	577.6	577.6	576.3	575.1	575.1
17.5°	583.8	583.0	581.3	579.2	578.4
20°	590.0	589.2	586.3	583.0	581.3
22.5°	597.1	595.4	591.7	587.1	585.5
25°	605.4	602.9	597.5	591.3	588.8
27.5°	612.9	609.6	602.9	595.9	591.7
30°	620.8	616.6	607.9	598.8	594.6
32.5°	627.0	622.8	611.6	601.3	595.9
35°	632.8	627.4	614.5	601.7	595.9
37.5°	635.3	629.5	614.5	599.6	592.1
40°	634.5	628.2	611.6	594.6	585.9
42.5°	630.3	622.8	605.0	585.9	575.9
45°	621.2	612.9	593.8	573.4	563.5
47.5°	605.4	597.1	576.8	555.2	543.1
50°	584.6	575.9	556.8	532.7	520.3
52.5°	558.5	549.8	529.8	505.3	493.3
55°	527.3	518.2	498.7	475.4	463.0
57.5°	489.1	482.5	463.4	441.4	429.3
60°	450.1	443.5	426.0	405.3	393.2
62.5°	408.2	402.8	387.0	367.5	357.1
65°	364.2	360.0	346.7	328.9	319.3
67.5°	319.3	317.7	305.6	290.2	281.9
70°	274.5	275.3	265.3	251.6	244.6
72.5°	230.9	233.8	225.9	214.7	209.7
75°	190.2	194.7	188.9	180.2	175.2
77.5°	152.4	158.6	153.6	147.0	142.8
80°	123.7	123.3	121.2	116.3	112.5
82.5°	88.9	90.5	89.3	86.4	84.3
85°	57.7	60.6	60.2	59.0	56.5
87.5°	28.7	32.0	32.4	31.6	30.3
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	13.4	15.2	13.8	15.5	15.8	12.8	14.5	13.1	14.8	15.1
	3H	15.2	16.8	15.6	17.1	17.5	14.5	16.1	14.9	16.5	16.8
	4H	15.9	17.4	16.3	17.8	18.1	15.2	16.7	15.6	17.1	17.4
	6H	16.4	17.8	16.8	18.2	18.6	15.8	17.2	16.2	17.5	17.9
	8H	16.6	18.0	17.1	18.3	18.7	16.0	17.3	16.4	17.7	18.1
	12H	16.8	18.1	17.2	18.4	18.9	16.2	17.4	16.6	17.8	18.2
4H	2H	14.0	15.5	14.4	15.9	16.2	13.5	15.0	13.9	15.3	15.7
	3H	16.1	17.3	16.5	17.7	18.1	15.5	16.8	15.9	17.2	17.6
	4H	16.9	18.0	17.3	18.4	18.9	16.3	17.5	16.8	17.9	18.3
	6H	17.6	18.6	18.0	19.0	19.5	17.0	18.0	17.5	18.5	18.9
	8H	17.8	18.8	18.3	19.2	19.7	17.3	18.2	17.7	18.7	19.1
	12H	18.0	18.9	18.5	19.3	19.8	17.5	18.3	18.0	18.8	19.3
8H	4H	17.2	18.1	17.7	18.6	19.1	16.7	17.7	17.2	18.1	18.6
	6H	18.0	18.8	18.5	19.3	19.8	17.5	18.3	18.0	18.8	19.3
	8H	18.4	19.1	18.9	19.6	20.1	17.9	18.6	18.4	19.1	19.6
	12H	18.7	19.3	19.2	19.8	20.3	18.2	18.8	18.7	19.3	19.9
12H	4H	17.3	18.1	17.7	18.6	19.0	16.8	17.6	17.2	18.1	18.6
	6H	18.1	18.8	18.6	19.3	19.8	17.6	18.4	18.2	18.8	19.4
	8H	18.5	19.1	19.0	19.6	20.2	18.1	18.7	18.6	19.2	19.7













(END OF REPORT)