

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: P1527075

Luminaire Tested: 24CGTX-20HE-F125-L830

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1527075
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-L830
Description: CGTX with F125 Lens Option

Light Source:
Ballast/Driver: -

Summary

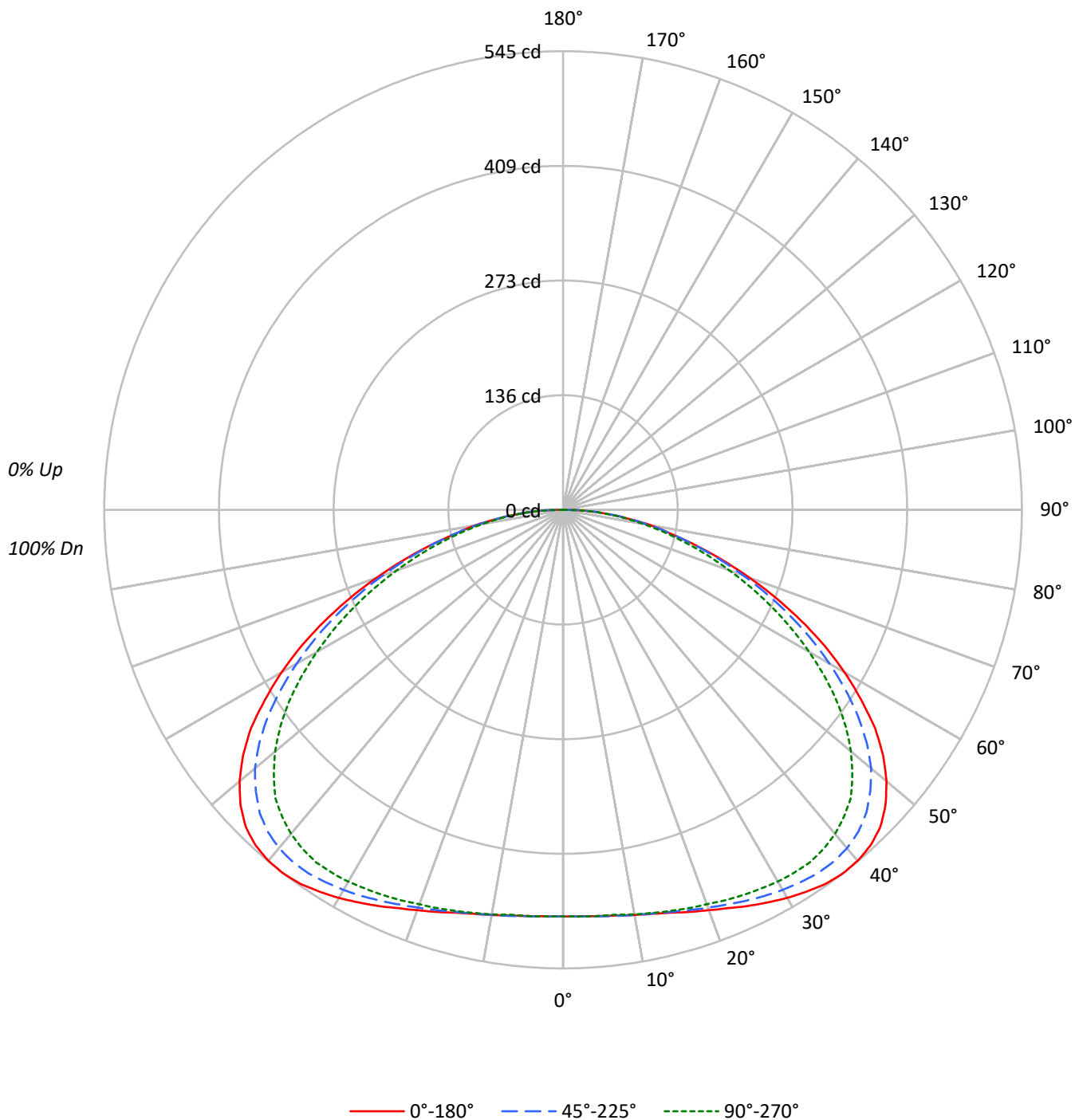
Lumens per Lamp: N/A
Luminaire Lumens: 2043.0 lumens
Efficiency: N/A
Efficacy: 137.1 lumens/watt
Spacing Criteria (0/90/45): 1.69 / 1.6 / 1.72
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	650	650	650
5°	654	655	654
10°	668	668	667
15°	690	689	687
20°	725	720	714
25°	771	761	750
30°	827	810	793
35°	892	866	840
40°	956	922	883
45°	1014	969	920
50°	1050	1000	934
55°	1061	1004	932
60°	1039	984	908
65°	995	947	872
70°	926	896	826
75°	848	843	782
80°	823	806	748
85°	764	798	749

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 55°

Luminance: 1061 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.4	2.3
10°-20°	140.5	6.9
20°-30°	237.4	11.6
30°-40°	330.2	16.2
40°-50°	390.9	19.1
50°-60°	379.2	18.6
60°-70°	292.2	14.3
70°-80°	170.5	8.3
80°-90°	55.7	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°	424.3	20.8
0°-40°	754.5	36.9
0°-60°	1524.6	74.6
0°-90°	2043.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2043.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	483	483	483	483	483	
5°	484	485	485	485	484	46
15°	496	496	494	494	494	141
25°	520	517	513	507	505	241
35°	543	538	527	516	511	340
45°	533	526	510	492	484	409
55°	452	445	428	408	397	402
65°	312	309	298	282	274	309
75°	163	167	162	155	150	175
85°	50	52	52	51	48	55
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	483.1	483.1	483.1	483.1	483.1
2.5°	483.5	483.8	483.8	483.8	483.8
5°	484.5	484.9	484.9	484.9	484.5
7.5°	486.3	486.3	486.7	486.3	485.3
10°	488.8	488.8	488.8	488.5	488.1
12.5°	491.7	492.0	491.3	491.0	490.6
15°	495.6	495.6	494.5	493.5	493.5
17.5°	500.9	500.2	498.8	497.0	496.3
20°	506.3	505.6	503.1	500.2	498.8
22.5°	512.3	510.9	507.7	503.8	502.4
25°	519.5	517.3	512.7	507.3	505.2
27.5°	525.9	523.0	517.3	511.3	507.7
30°	532.6	529.1	521.6	513.8	510.2
32.5°	538.0	534.4	524.8	515.9	511.3
35°	543.0	538.3	527.3	516.3	511.3
37.5°	545.1	540.1	527.3	514.5	508.1
40°	544.4	539.1	524.8	510.2	502.7
42.5°	540.8	534.4	519.1	502.7	494.2
45°	533.0	525.9	509.5	492.0	483.5
47.5°	519.5	512.3	494.9	476.4	466.0
50°	501.6	494.2	477.8	457.1	446.4
52.5°	479.2	471.7	454.6	433.6	423.3
55°	452.5	444.6	427.9	407.9	397.3
57.5°	419.7	414.0	397.6	378.7	368.4
60°	386.2	380.5	365.5	347.7	337.4
62.5°	350.2	345.6	332.1	315.3	306.4
65°	312.5	308.9	297.5	282.2	274.0
67.5°	274.0	272.6	262.2	249.0	241.9
70°	235.5	236.2	227.7	215.9	209.9
72.5°	198.1	200.6	193.8	184.2	179.9
75°	163.2	167.1	162.1	154.6	150.4
77.5°	130.8	136.1	131.8	126.1	122.6
80°	106.2	105.8	104.0	99.8	96.6
82.5°	76.2	77.7	76.6	74.1	72.3
85°	49.5	52.0	51.7	50.6	48.5
87.5°	24.6	27.4	27.8	27.1	26.0
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	12.9	14.6	13.3	14.9	15.3	12.2	14.0	12.6	14.3	14.6
	3H	14.7	16.3	15.1	16.6	17.0	14.0	15.6	14.4	15.9	16.3
	4H	15.4	16.9	15.8	17.2	17.6	14.7	16.2	15.1	16.5	16.9
	6H	15.9	17.3	16.3	17.7	18.0	15.3	16.6	15.7	17.0	17.4
	8H	16.1	17.4	16.5	17.8	18.2	15.5	16.8	15.9	17.2	17.6
	12H	16.2	17.5	16.7	17.9	18.3	15.6	16.9	16.1	17.3	17.7
4H	2H	13.5	15.0	13.9	15.3	15.7	13.0	14.5	13.4	14.8	15.2
	3H	15.5	16.8	15.9	17.2	17.6	15.0	16.2	15.4	16.6	17.0
	4H	16.4	17.5	16.8	17.9	18.3	15.8	16.9	16.2	17.3	17.8
	6H	17.0	18.0	17.5	18.5	18.9	16.5	17.5	16.9	17.9	18.4
	8H	17.3	18.2	17.7	18.7	19.1	16.7	17.7	17.2	18.1	18.6
	12H	17.5	18.3	18.0	18.8	19.3	17.0	17.8	17.4	18.3	18.8
8H	4H	16.7	17.6	17.1	18.1	18.5	16.2	17.1	16.6	17.6	18.0
	6H	17.5	18.3	18.0	18.8	19.2	17.0	17.8	17.5	18.3	18.8
	8H	17.8	18.5	18.3	19.0	19.5	17.4	18.1	17.9	18.6	19.1
	12H	18.1	18.8	18.6	19.3	19.8	17.7	18.3	18.2	18.8	19.4
12H	4H	16.7	17.6	17.2	18.0	18.5	16.2	17.1	16.7	17.6	18.0
	6H	17.6	18.3	18.1	18.7	19.3	17.1	17.8	17.6	18.3	18.8
	8H	18.0	18.6	18.5	19.1	19.6	17.5	18.2	18.0	18.6	19.2













(END OF REPORT)