

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: P1527076

Luminaire Tested: 24CGTX-20HE-F125-L835

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1527076
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-L835
Description: CGTX with F125 Lens Option

Light Source:
Ballast/Driver: -

Summary

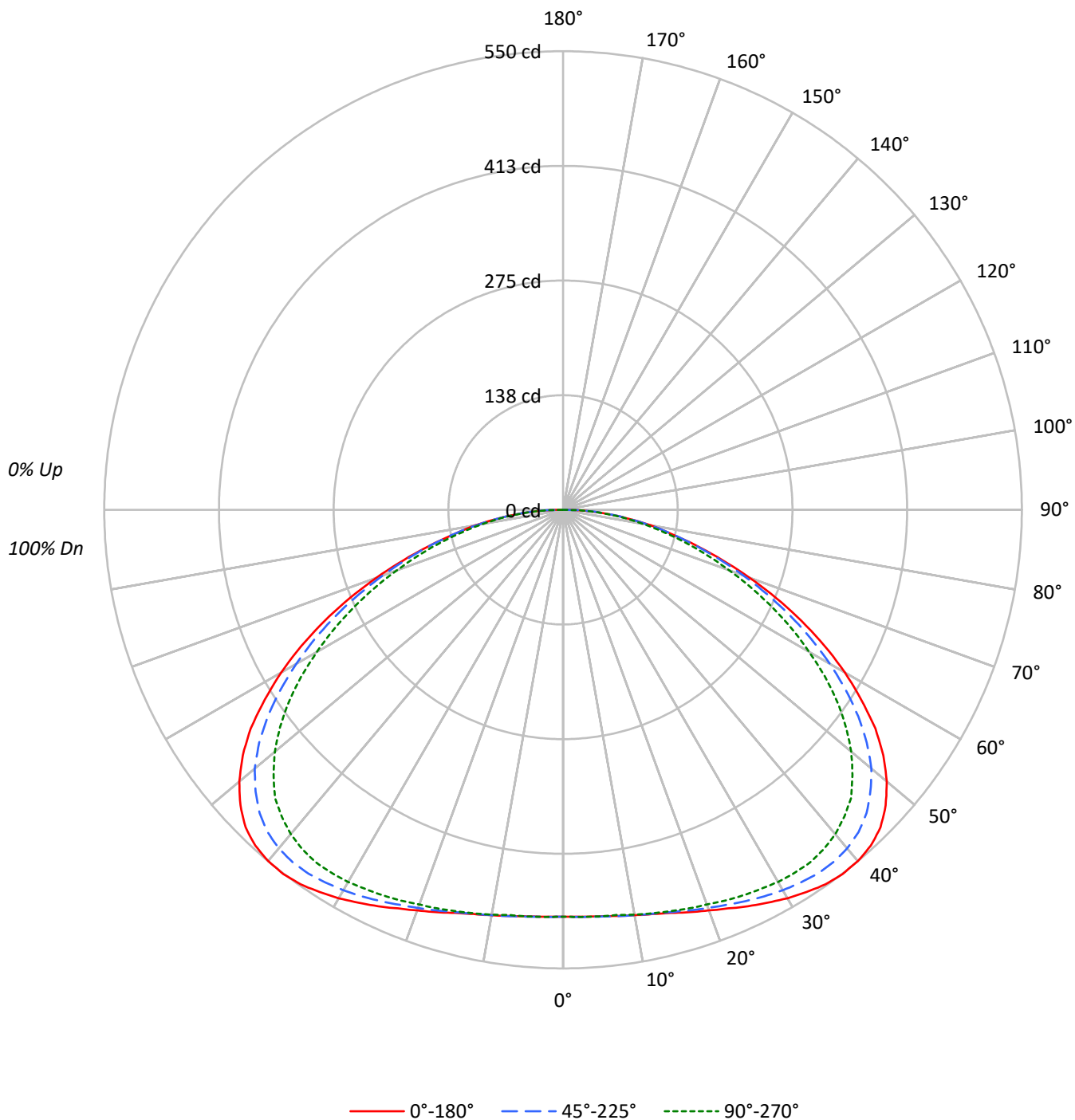
Lumens per Lamp: N/A
Luminaire Lumens: 2063.3 lumens
Efficiency: N/A
Efficacy: 138.5 lumens/watt
Spacing Criteria (0/90/45): 1.69 / 1.6 / 1.72
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	656	656	656
5°	661	661	661
10°	675	675	674
15°	697	696	694
20°	732	728	721
25°	779	769	757
30°	836	818	801
35°	901	875	848
40°	966	931	892
45°	1024	979	929
50°	1060	1010	944
55°	1072	1014	941
60°	1049	994	917
65°	1005	956	881
70°	935	904	834
75°	857	851	789
80°	831	814	755
85°	772	806	755

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 55°

Luminance: 1072 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.9	2.3
10°-20°	141.9	6.9
20°-30°	239.7	11.6
30°-40°	333.5	16.2
40°-50°	394.8	19.1
50°-60°	383.0	18.6
60°-70°	295.1	14.3
70°-80°	172.2	8.3
80°-90°	56.3	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°	428.5	20.8
0°-40°	762.0	36.9
0°-60°	1539.7	74.6
0°-90°	2063.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2063.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	488	488	488	488	488	
5°	489	490	490	490	489	47
15°	500	500	499	498	498	142
25°	525	522	518	512	510	243
35°	548	544	532	521	516	343
45°	538	531	514	497	488	413
55°	457	449	432	412	401	406
65°	316	312	300	285	277	312
75°	165	169	164	156	152	177
85°	50	52	52	51	49	56
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	487.9	487.9	487.9	487.9	487.9
2.5°	488.3	488.6	488.6	488.6	488.6
5°	489.4	489.7	489.7	489.7	489.4
7.5°	491.2	491.2	491.5	491.2	490.1
10°	493.7	493.7	493.7	493.3	493.0
12.5°	496.5	496.9	496.2	495.8	495.5
15°	500.5	500.5	499.4	498.3	498.3
17.5°	505.9	505.2	503.7	501.9	501.2
20°	511.3	510.6	508.1	505.2	503.7
22.5°	517.4	516.0	512.7	508.8	507.3
25°	524.6	522.5	517.8	512.4	510.2
27.5°	531.1	528.2	522.5	516.3	512.7
30°	537.9	534.3	526.8	518.9	515.3
32.5°	543.3	539.7	530.0	521.0	516.3
35°	548.4	543.7	532.5	521.4	516.3
37.5°	550.5	545.5	532.5	519.6	513.1
40°	549.8	544.4	530.0	515.3	507.7
42.5°	546.2	539.7	524.3	507.7	499.1
45°	538.3	531.1	514.5	496.9	488.3
47.5°	524.6	517.4	499.8	481.1	470.6
50°	506.6	499.1	482.5	461.6	450.9
52.5°	484.0	476.4	459.1	437.9	427.5
55°	457.0	449.1	432.1	412.0	401.2
57.5°	423.9	418.1	401.6	382.5	372.1
60°	390.0	384.3	369.2	351.2	340.7
62.5°	353.7	349.0	335.4	318.4	309.4
65°	315.6	312.0	300.4	285.0	276.7
67.5°	276.7	275.3	264.8	251.5	244.3
70°	237.8	238.6	229.9	218.0	211.9
72.5°	200.1	202.6	195.7	186.0	181.7
75°	164.8	168.8	163.7	156.2	151.8
77.5°	132.1	137.5	133.1	127.4	123.8
80°	107.2	106.9	105.1	100.7	97.5
82.5°	77.0	78.4	77.4	74.8	73.0
85°	50.0	52.5	52.2	51.1	48.9
87.5°	24.8	27.7	28.1	27.3	26.3
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	12.9	14.7	13.3	15.0	15.3	12.3	14.0	12.6	14.3	14.6
	3H	14.7	16.3	15.1	16.7	17.0	14.0	15.6	14.4	16.0	16.3
	4H	15.4	16.9	15.8	17.3	17.6	14.7	16.2	15.1	16.6	16.9
	6H	15.9	17.3	16.4	17.7	18.1	15.3	16.7	15.7	17.0	17.4
	8H	16.1	17.5	16.6	17.9	18.2	15.5	16.8	15.9	17.2	17.6
	12H	16.3	17.6	16.7	17.9	18.4	15.7	16.9	16.1	17.3	17.7
4H	2H	13.5	15.0	13.9	15.4	15.7	13.0	14.5	13.4	14.8	15.2
	3H	15.6	16.8	16.0	17.2	17.6	15.0	16.3	15.4	16.7	17.1
	4H	16.4	17.5	16.8	17.9	18.4	15.8	17.0	16.3	17.4	17.8
	6H	17.1	18.1	17.5	18.5	19.0	16.5	17.5	17.0	18.0	18.4
	8H	17.3	18.3	17.8	18.7	19.2	16.8	17.7	17.2	18.2	18.6
	12H	17.5	18.4	18.0	18.9	19.3	17.0	17.9	17.5	18.3	18.8
8H	4H	16.7	17.7	17.2	18.1	18.6	16.2	17.2	16.7	17.6	18.1
	6H	17.5	18.3	18.0	18.8	19.3	17.0	17.8	17.5	18.3	18.8
	8H	17.9	18.6	18.4	19.1	19.6	17.4	18.1	17.9	18.6	19.1
	12H	18.2	18.8	18.7	19.3	19.8	17.7	18.3	18.2	18.8	19.4
12H	4H	16.8	17.6	17.2	18.1	18.5	16.3	17.1	16.7	17.6	18.1
	6H	17.6	18.3	18.1	18.8	19.3	17.2	17.9	17.7	18.3	18.9
	8H	18.0	18.6	18.5	19.1	19.7	17.6	18.2	18.1	18.7	19.2













(END OF REPORT)