

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: P1527073

Luminaire Tested: 24CGTX-20-F125-L840

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1527073
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-L840
Description: CGTX with F125 Lens Option

Light Source:
Ballast/Driver: -

Summary

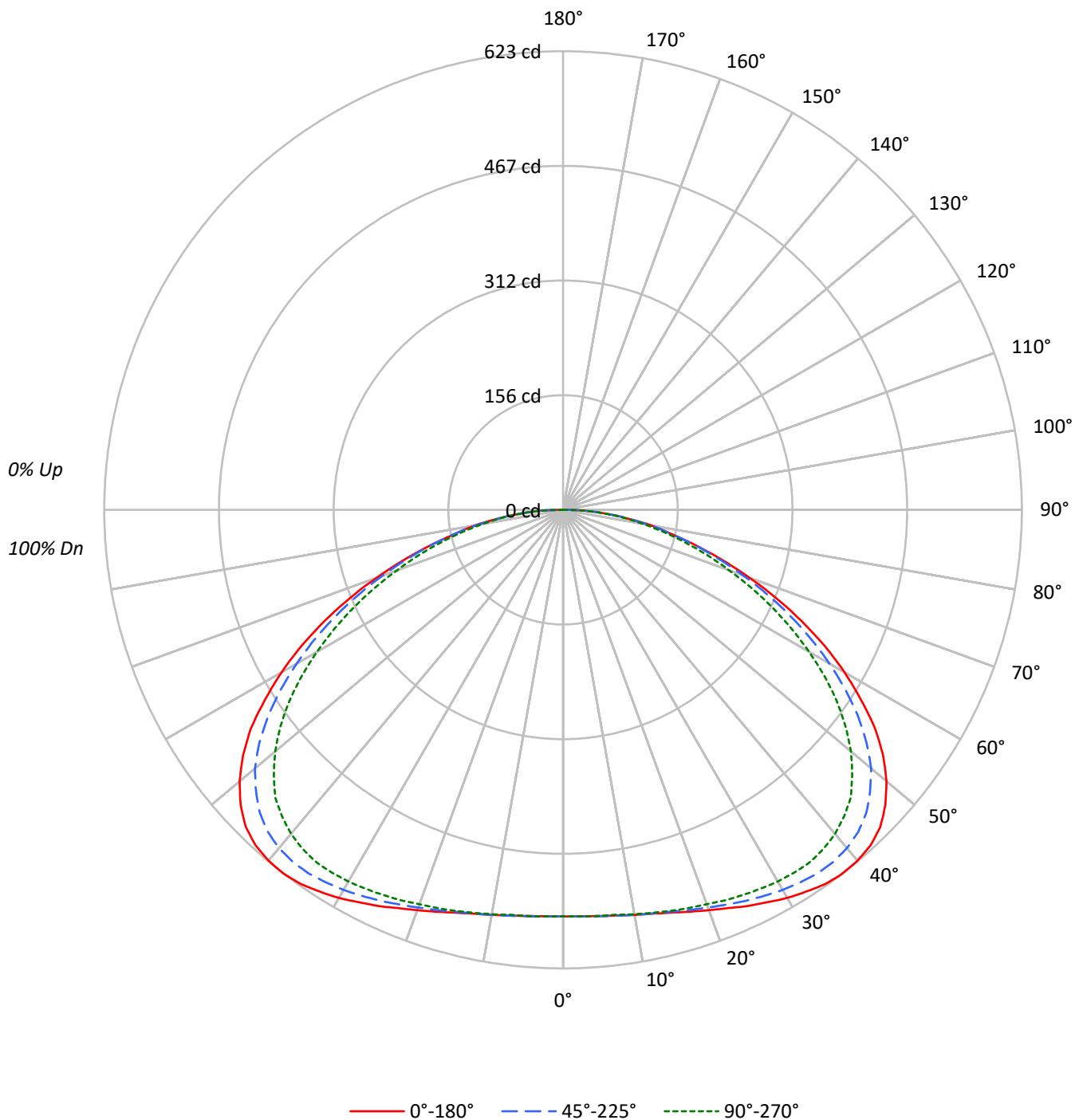
Lumens per Lamp: N/A
Luminaire Lumens: 2335.0 lumens
Efficiency: N/A
Efficacy: 139.8 lumens/watt
Spacing Criteria (0/90/45): 1.69 / 1.6 / 1.72
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	743	743	743
5°	748	749	748
10°	763	763	762
15°	789	787	786
20°	828	823	816
25°	881	870	857
30°	946	926	906
35°	1019	990	960
40°	1093	1053	1009
45°	1159	1108	1051
50°	1200	1143	1068
55°	1213	1147	1065
60°	1188	1124	1038
65°	1137	1082	997
70°	1059	1024	943
75°	970	963	893
80°	940	921	855
85°	874	911	855

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 55°
Luminance: 1213 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.0	2.3
10°-20°	160.6	6.9
20°-30°	271.3	11.6
30°-40°	377.4	16.2
40°-50°	446.7	19.1
50°-60°	433.4	18.6
60°-70°	333.9	14.3
70°-80°	194.9	8.3
80°-90°	63.7	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°	485.0	20.8
0°-40°	862.4	36.9
0°-60°	1742.5	74.6
0°-90°	2335.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2335.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	552	552	552	552	552	
5°	554	554	554	554	554	53
15°	566	566	565	564	564	161
25°	594	591	586	580	577	275
35°	621	615	603	590	584	389
45°	609	601	582	562	553	468
55°	517	508	489	466	454	459
65°	357	353	340	322	313	353
75°	186	191	185	177	172	200
85°	57	60	59	58	55	63
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	552.2	552.2	552.2	552.2	552.2
2.5°	552.6	553.0	553.0	553.0	553.0
5°	553.8	554.2	554.2	554.2	553.8
7.5°	555.8	555.8	556.2	555.8	554.6
10°	558.7	558.7	558.7	558.3	557.9
12.5°	561.9	562.4	561.5	561.1	560.7
15°	566.4	566.4	565.2	564.0	564.0
17.5°	572.5	571.7	570.1	568.1	567.2
20°	578.6	577.8	575.0	571.7	570.1
22.5°	585.6	583.9	580.3	575.8	574.2
25°	593.7	591.3	586.0	579.9	577.4
27.5°	601.0	597.8	591.3	584.3	580.3
30°	608.8	604.7	596.2	587.2	583.1
32.5°	614.9	610.8	599.8	589.6	584.3
35°	620.6	615.3	602.7	590.0	584.3
37.5°	623.0	617.3	602.7	588.0	580.7
40°	622.2	616.1	599.8	583.1	574.6
42.5°	618.1	610.8	593.3	574.6	564.8
45°	609.2	601.0	582.3	562.4	552.6
47.5°	593.7	585.6	565.6	544.4	532.6
50°	573.3	564.8	546.1	522.4	510.2
52.5°	547.7	539.1	519.6	495.6	483.8
55°	517.2	508.2	489.1	466.3	454.0
57.5°	479.7	473.2	454.4	432.9	421.1
60°	441.4	434.9	417.8	397.4	385.6
62.5°	400.3	395.0	379.5	360.4	350.2
65°	357.1	353.0	340.0	322.5	313.1
67.5°	313.1	311.5	299.7	284.6	276.5
70°	269.2	270.0	260.2	246.8	239.8
72.5°	226.4	229.3	221.5	210.5	205.6
75°	186.5	191.0	185.3	176.7	171.8
77.5°	149.4	155.6	150.7	144.2	140.1
80°	121.3	120.9	118.9	114.0	110.4
82.5°	87.1	88.8	87.5	84.7	82.7
85°	56.6	59.5	59.0	57.8	55.4
87.5°	28.1	31.4	31.8	30.9	29.7
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	15.1	13.7	15.4	15.7	12.7	14.4	13.1	14.7	15.1
	3H	15.2	16.8	15.6	17.1	17.4	14.5	16.1	14.9	16.4	16.7
	4H	15.8	17.3	16.2	17.7	18.1	15.2	16.7	15.6	17.0	17.4
	6H	16.4	17.8	16.8	18.1	18.5	15.7	17.1	16.1	17.5	17.9
	8H	16.6	17.9	17.0	18.3	18.7	15.9	17.3	16.4	17.6	18.0
	12H	16.7	18.0	17.1	18.4	18.8	16.1	17.4	16.5	17.7	18.2
4H	2H	14.0	15.4	14.4	15.8	16.2	13.4	14.9	13.8	15.3	15.6
	3H	16.0	17.3	16.4	17.7	18.1	15.4	16.7	15.8	17.1	17.5
	4H	16.8	18.0	17.3	18.4	18.8	16.3	17.4	16.7	17.8	18.2
	6H	17.5	18.5	17.9	18.9	19.4	16.9	17.9	17.4	18.4	18.8
	8H	17.8	18.7	18.2	19.1	19.6	17.2	18.1	17.7	18.6	19.1
	12H	18.0	18.8	18.4	19.3	19.7	17.4	18.3	17.9	18.8	19.2
8H	4H	17.1	18.1	17.6	18.5	19.0	16.6	17.6	17.1	18.0	18.5
	6H	18.0	18.7	18.4	19.2	19.7	17.5	18.3	18.0	18.7	19.2
	8H	18.3	19.0	18.8	19.5	20.0	17.8	18.5	18.3	19.0	19.5
	12H	18.6	19.2	19.1	19.7	20.3	18.1	18.8	18.7	19.3	19.8
12H	4H	17.2	18.0	17.7	18.5	19.0	16.7	17.6	17.2	18.0	18.5
	6H	18.0	18.8	18.6	19.2	19.7	17.6	18.3	18.1	18.7	19.3
	8H	18.4	19.1	18.9	19.6	20.1	18.0	18.6	18.5	19.1	19.7







(END OF REPORT)