

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: P1527105

Luminaire Tested: 24CGTX-40-F125-L835

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1527105
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-40-F125-L835
Description: CGTX with F125 Lens Option

Light Source:
Ballast/Driver: -

Summary

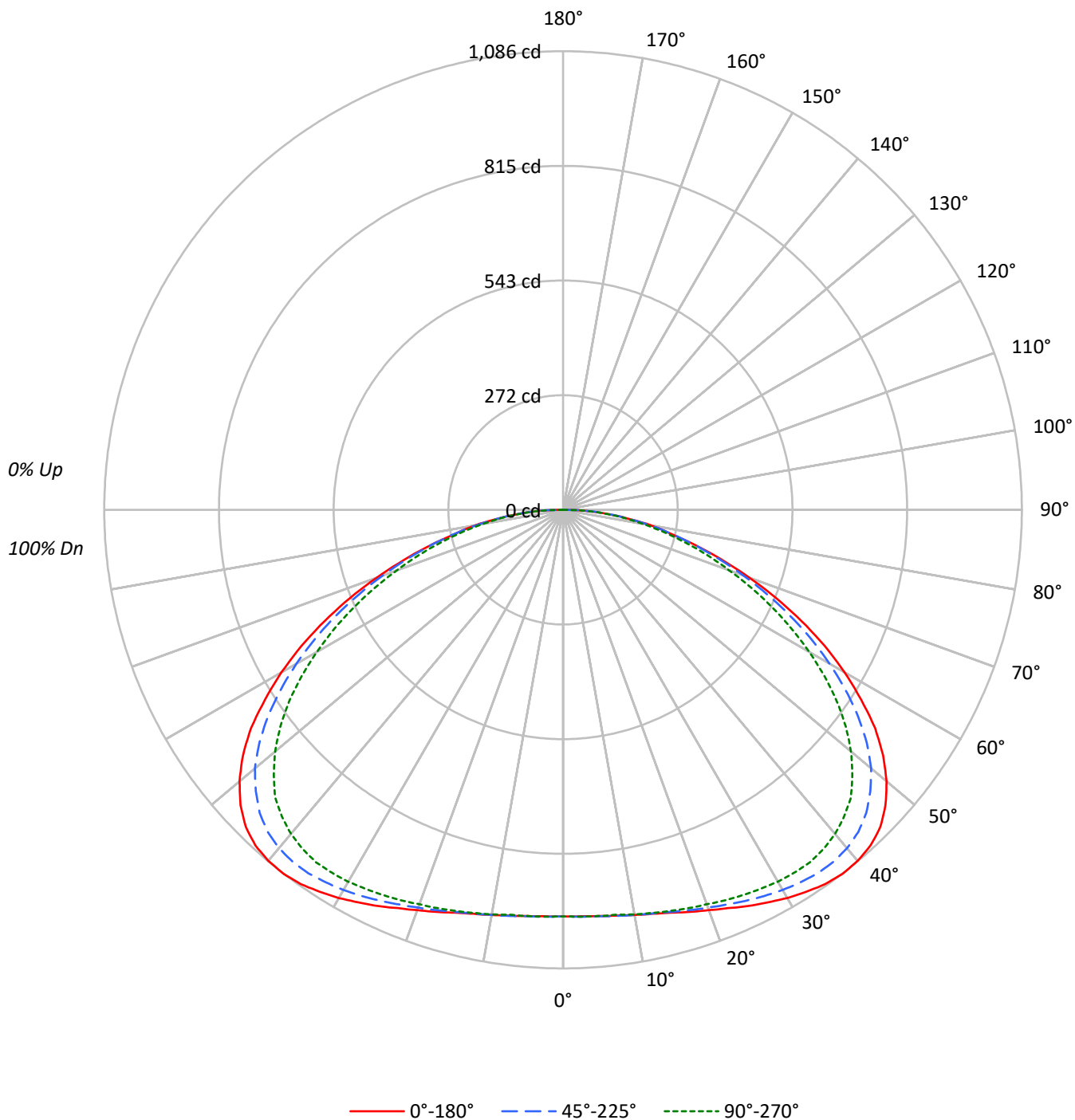
Lumens per Lamp: N/A
Luminaire Lumens: 4071.4 lumens
Efficiency: N/A
Efficacy: 134.4 lumens/watt
Spacing Criteria (0/90/45): 1.69 / 1.6 / 1.72
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 30.3
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°	1295	1295	1295
5°	1304	1305	1304
10°	1331	1331	1329
15°	1376	1373	1370
20°	1445	1435	1423
25°	1537	1517	1495
30°	1649	1615	1580
35°	1777	1726	1674
40°	1906	1837	1760
45°	2021	1932	1833
50°	2093	1993	1862
55°	2115	2000	1857
60°	2071	1960	1809
65°	1982	1888	1738
70°	1846	1785	1645
75°	1691	1680	1557
80°	1640	1606	1491
85°	1524	1590	1491

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 55°
Luminance: 2115 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.5	2.3
10°-20°	280.1	6.9
20°-30°	473.0	11.6
30°-40°	658.0	16.2
40°-50°	778.9	19.1
50°-60°	755.7	18.6
60°-70°	582.3	14.3
70°-80°	339.7	8.3
80°-90°	111.1	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°	845.6	20.8
0°-40°	1503.6	36.9
0°-60°	3038.3	74.6
0°-90°	4071.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4071.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	963	963	963	963	963	
5°	966	966	966	966	966	92
15°	988	988	986	983	983	281
25°	1035	1031	1022	1011	1007	480
35°	1082	1073	1051	1029	1019	678
45°	1062	1048	1015	980	964	816
55°	902	886	853	813	792	800
65°	623	616	593	562	546	615
75°	325	333	323	308	300	348
85°	99	104	103	101	97	110
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	962.8	962.8	962.8	962.8	962.8
2.5°	963.5	964.2	964.2	964.2	964.2
5°	965.6	966.3	966.3	966.3	965.6
7.5°	969.2	969.2	969.9	969.2	967.0
10°	974.1	974.1	974.1	973.4	972.7
12.5°	979.8	980.5	979.1	978.4	977.7
15°	987.6	987.6	985.5	983.4	983.4
17.5°	998.3	996.9	994.0	990.5	989.0
20°	1008.9	1007.5	1002.5	996.9	994.0
22.5°	1021.0	1018.2	1011.8	1004.0	1001.1
25°	1035.2	1030.9	1021.7	1011.1	1006.8
27.5°	1048.0	1042.3	1030.9	1018.9	1011.8
30°	1061.5	1054.4	1039.5	1023.8	1016.7
32.5°	1072.1	1065.0	1045.8	1028.1	1018.9
35°	1082.1	1072.8	1050.8	1028.8	1018.9
37.5°	1086.3	1076.4	1050.8	1025.3	1012.5
40°	1084.9	1074.3	1045.8	1016.7	1001.8
42.5°	1077.8	1065.0	1034.5	1001.8	984.8
45°	1062.2	1048.0	1015.3	980.5	963.5
47.5°	1035.2	1021.0	986.2	949.3	928.7
50°	999.7	984.8	952.1	910.9	889.6
52.5°	955.0	940.1	906.0	864.1	843.5
55°	901.7	886.1	852.7	813.0	791.7
57.5°	836.4	825.0	792.4	754.7	734.2
60°	769.7	758.3	728.5	693.0	672.4
62.5°	697.9	688.7	661.7	628.4	610.6
65°	622.7	615.6	592.9	562.3	546.0
67.5°	546.0	543.2	522.6	496.3	482.1
70°	469.3	470.7	453.7	430.3	418.2
72.5°	394.8	399.7	386.2	367.1	358.6
75°	325.2	333.0	323.1	308.1	299.6
77.5°	260.6	271.2	262.7	251.3	244.2
80°	211.6	210.9	207.3	198.8	192.4
82.5°	151.9	154.8	152.7	147.7	144.1
85°	98.7	103.7	103.0	100.8	96.6
87.5°	49.0	54.7	55.4	54.0	51.8
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	15.3	17.0	15.7	17.3	17.7	14.6	16.4	15.0	16.7	17.0
	3H	17.1	18.7	17.5	19.0	19.4	16.4	18.0	16.8	18.3	18.7
	4H	17.8	19.3	18.2	19.6	20.0	17.1	18.6	17.5	18.9	19.3
	6H	18.3	19.7	18.7	20.1	20.4	17.7	19.0	18.1	19.4	19.8
	8H	18.5	19.8	18.9	20.2	20.6	17.9	19.2	18.3	19.6	20.0
	12H	18.6	19.9	19.1	20.3	20.7	18.0	19.3	18.5	19.7	20.1
4H	2H	15.9	17.4	16.3	17.7	18.1	15.4	16.9	15.8	17.2	17.6
	3H	17.9	19.2	18.3	19.6	20.0	17.4	18.6	17.8	19.0	19.4
	4H	18.8	19.9	19.2	20.3	20.7	18.2	19.3	18.6	19.7	20.2
	6H	19.4	20.4	19.9	20.9	21.3	18.9	19.9	19.3	20.3	20.8
	8H	19.7	20.6	20.1	21.1	21.5	19.1	20.1	19.6	20.5	21.0
	12H	19.9	20.7	20.4	21.2	21.7	19.4	20.2	19.8	20.7	21.2
8H	4H	19.1	20.0	19.5	20.5	20.9	18.6	19.5	19.0	20.0	20.4
	6H	19.9	20.7	20.4	21.2	21.6	19.4	20.2	19.9	20.7	21.2
	8H	20.2	20.9	20.7	21.4	21.9	19.8	20.5	20.3	21.0	21.5
	12H	20.5	21.2	21.0	21.7	22.2	20.1	20.7	20.6	21.2	21.8
12H	4H	19.1	20.0	19.6	20.4	20.9	18.6	19.5	19.1	20.0	20.4
	6H	20.0	20.7	20.5	21.1	21.7	19.5	20.2	20.0	20.7	21.2
	8H	20.4	21.0	20.9	21.5	22.0	19.9	20.6	20.4	21.0	21.6















(END OF REPORT)