

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: P1527104

Luminaire Tested: 24CGTX-40-F125-L830

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1527104
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-L830
Description: CGTX with F125 Lens Option

Light Source:
Ballast/Driver: -

Summary

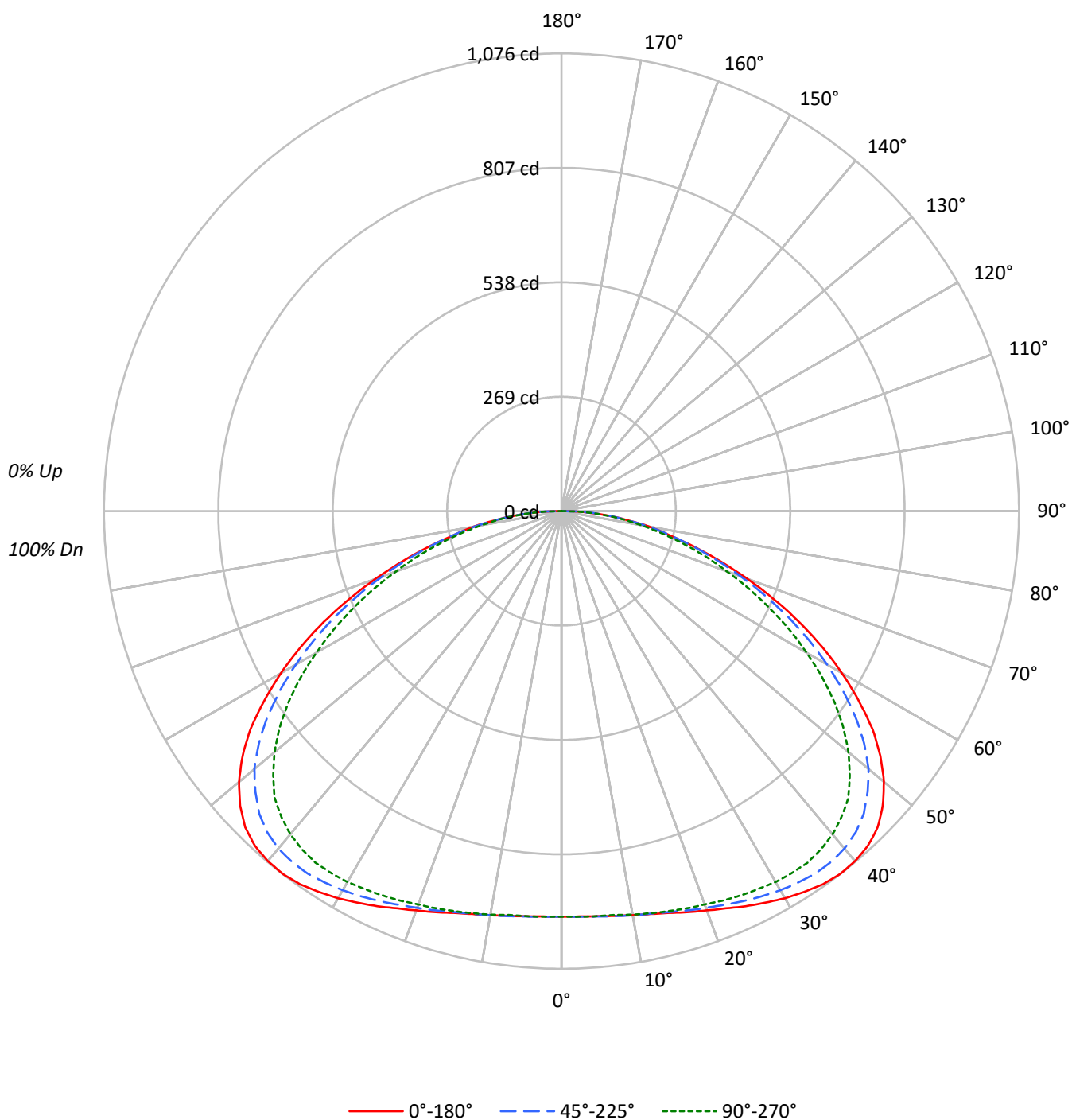
Lumens per Lamp: N/A
Luminaire Lumens: 4031.0 lumens
Efficiency: N/A
Efficacy: 133.0 lumens/watt
Spacing Criteria (0/90/45): 1.69 / 1.6 / 1.72
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1527104

CATALOG NUMBER: 24CGTX-40-F125-L830

Luminous Intensity Polar Plot



TEST NUMBER: P1527104

CATALOG NUMBER: 24CGTX-40-F125-L830

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	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°	1283	1283	1283
5°	1291	1292	1291
10°	1318	1318	1316
15°	1362	1359	1356
20°	1430	1421	1409
25°	1522	1502	1480
30°	1633	1599	1564
35°	1760	1709	1657
40°	1887	1819	1742
45°	2001	1913	1815
50°	2072	1973	1844
55°	2094	1981	1839
60°	2051	1941	1791
65°	1963	1869	1721
70°	1828	1767	1629
75°	1674	1663	1542
80°	1623	1591	1476
85°	1508	1573	1476

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 55°
Luminance: 2094 cd/sqm

TEST NUMBER: P1527104

CATALOG NUMBER: 24CGTX-40-F125-L830

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.5	2.3
10°-20°	277.3	6.9
20°-30°	468.4	11.6
30°-40°	651.5	16.2
40°-50°	771.2	19.1
50°-60°	748.2	18.6
60°-70°	576.5	14.3
70°-80°	336.4	8.3
80°-90°	109.9	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°	837.2	20.8
0°-40°	1488.7	36.9
0°-60°	3008.2	74.6
0°-90°	4031.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4031.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	953	953	953	953	953	
5°	956	957	957	957	956	92
15°	978	978	976	974	974	278
25°	1025	1021	1012	1001	997	475
35°	1071	1062	1040	1019	1009	671
45°	1052	1038	1005	971	954	808
55°	893	877	844	805	784	793
65°	616	610	587	557	541	609
75°	322	330	320	305	297	345
85°	98	103	102	100	96	109
90°	0	0	0	0	0	

TEST NUMBER: P1527104

CATALOG NUMBER: 24CGTX-40-F125-L830

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	953.2	953.2	953.2	953.2	953.2
2.5°	953.9	954.6	954.6	954.6	954.6
5°	956.0	956.8	956.8	956.8	956.0
7.5°	959.6	959.6	960.3	959.6	957.5
10°	964.5	964.5	964.5	963.8	963.1
12.5°	970.1	970.8	969.4	968.7	968.0
15°	977.8	977.8	975.7	973.6	973.6
17.5°	988.4	987.0	984.2	980.7	979.2
20°	998.9	997.5	992.6	987.0	984.2
22.5°	1010.9	1008.1	1001.7	994.0	991.2
25°	1024.9	1020.7	1011.6	1001.0	996.8
27.5°	1037.6	1032.0	1020.7	1008.8	1001.7
30°	1051.0	1043.9	1029.2	1013.7	1006.7
32.5°	1061.5	1054.5	1035.5	1017.9	1008.8
35°	1071.3	1062.2	1040.4	1018.6	1008.8
37.5°	1075.6	1065.7	1040.4	1015.1	1002.4
40°	1074.1	1063.6	1035.5	1006.7	991.9
42.5°	1067.1	1054.5	1024.2	991.9	975.0
45°	1051.7	1037.6	1005.3	970.8	953.9
47.5°	1024.9	1010.9	976.4	939.9	919.5
50°	989.8	975.0	942.7	901.9	880.8
52.5°	945.5	930.7	897.0	855.5	835.1
55°	892.8	877.3	844.3	804.9	783.8
57.5°	828.1	816.9	784.5	747.3	726.9
60°	762.0	750.8	721.3	686.1	665.7
62.5°	691.0	681.9	655.2	622.1	604.6
65°	616.5	609.5	587.0	556.8	540.6
67.5°	540.6	537.8	517.4	491.4	477.3
70°	464.7	466.1	449.2	426.0	414.1
72.5°	390.9	395.8	382.4	363.4	355.0
75°	322.0	329.7	319.9	305.1	296.7
77.5°	258.0	268.5	260.1	248.9	241.8
80°	209.5	208.8	205.3	196.8	190.5
82.5°	150.4	153.2	151.1	146.2	142.7
85°	97.7	102.6	101.9	99.8	95.6
87.5°	48.5	54.1	54.8	53.4	51.3
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1527104

CATALOG NUMBER: 24CGTX-40-F125-L830

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	15.6	17.3	17.6	14.6	16.3	14.9	16.6	17.0
	3H	17.1	18.7	17.4	19.0	19.3	16.4	18.0	16.8	18.3	18.6
	4H	17.7	19.2	18.1	19.6	20.0	17.1	18.6	17.5	18.9	19.3
	6H	18.3	19.7	18.7	20.0	20.4	17.6	19.0	18.0	19.4	19.8
	8H	18.5	19.8	18.9	20.2	20.6	17.8	19.2	18.2	19.5	19.9
	12H	18.6	19.9	19.0	20.3	20.7	18.0	19.3	18.4	19.6	20.1
4H	2H	15.9	17.3	16.2	17.7	18.1	15.3	16.8	15.7	17.2	17.5
	3H	17.9	19.2	18.3	19.6	20.0	17.3	18.6	17.7	19.0	19.4
	4H	18.7	19.9	19.1	20.3	20.7	18.2	19.3	18.6	19.7	20.1
	6H	19.4	20.4	19.8	20.8	21.3	18.8	19.8	19.3	20.3	20.7
	8H	19.7	20.6	20.1	21.0	21.5	19.1	20.0	19.6	20.5	20.9
	12H	19.9	20.7	20.3	21.2	21.6	19.3	20.2	19.8	20.7	21.1
8H	4H	19.0	20.0	19.5	20.4	20.9	18.5	19.5	19.0	19.9	20.4
	6H	19.9	20.6	20.3	21.1	21.6	19.4	20.2	19.9	20.6	21.1
	8H	20.2	20.9	20.7	21.4	21.9	19.7	20.4	20.2	20.9	21.4
	12H	20.5	21.1	21.0	21.6	22.2	20.0	20.7	20.5	21.2	21.7
12H	4H	19.1	19.9	19.6	20.4	20.9	18.6	19.4	19.1	19.9	20.4
	6H	19.9	20.7	20.5	21.1	21.6	19.5	20.2	20.0	20.6	21.2
	8H	20.3	21.0	20.8	21.5	22.0	19.9	20.5	20.4	21.0	21.6















(END OF REPORT)