

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: P1527129

Luminaire Tested: 24CGTX-55-F125-L850

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1527129
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-55-F125-L850
Description: CGTX with F125 Lens Option

Light Source:
Ballast/Driver: -

Summary

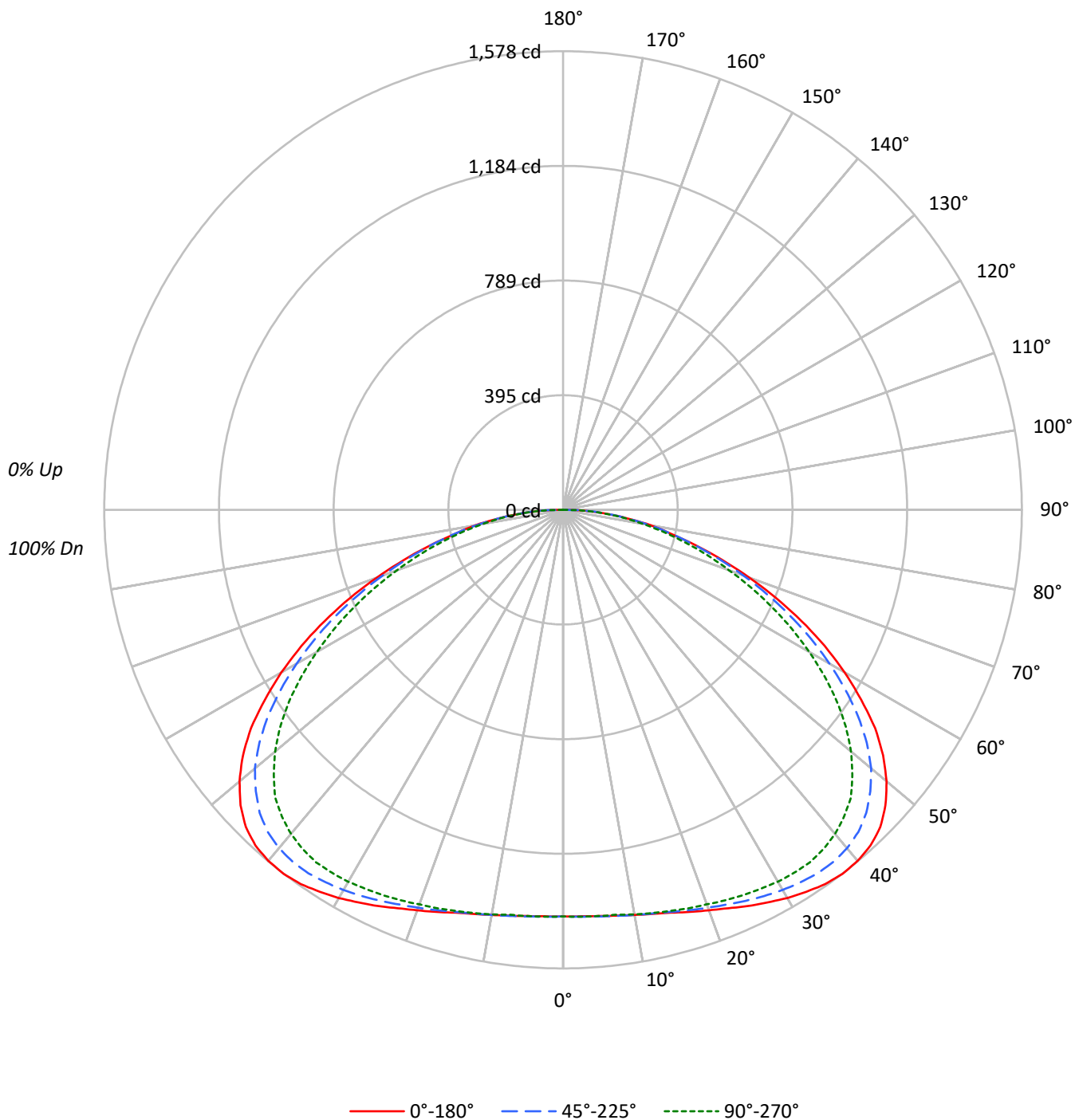
Lumens per Lamp: N/A
Luminaire Lumens: 5916.0 lumens
Efficiency: N/A
Efficacy: 134.1 lumens/watt
Spacing Criteria (0/90/45): 1.69 / 1.6 / 1.72
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 44.1
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: P1527129

CATALOG NUMBER: 24CGTX-55-F125-L850

Luminous Intensity Polar Plot



TEST NUMBER: P1527129

CATALOG NUMBER: 24CGTX-55-F125-L850

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	50	30	10
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°	1882	1882	1882
5°	1895	1897	1895
10°	1934	1934	1931
15°	1999	1995	1990
20°	2099	2086	2068
25°	2233	2204	2172
30°	2396	2347	2295
35°	2583	2508	2432
40°	2769	2669	2557
45°	2937	2807	2664
50°	3041	2896	2706
55°	3074	2907	2699
60°	3010	2848	2629
65°	2881	2743	2526
70°	2683	2594	2391
75°	2456	2440	2263
80°	2382	2335	2166
85°	2214	2309	2166

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 55°
Luminance: 3074 cd/sqm

TEST NUMBER: P1527129

CATALOG NUMBER: 24CGTX-55-F125-L850

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.3	2.3
10°-20°	407.0	6.9
20°-30°	687.4	11.6
30°-40°	956.2	16.2
40°-50°	1131.9	19.1
50°-60°	1098.1	18.6
60°-70°	846.1	14.3
70°-80°	493.7	8.3
80°-90°	161.3	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°	1228.7	20.8
0°-40°	2184.9	36.9
0°-60°	4414.9	74.6
0°-90°	5916.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5916.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1399	1399	1399	1399	1399	
5°	1403	1404	1404	1404	1403	134
15°	1435	1435	1432	1429	1429	408
25°	1504	1498	1485	1469	1463	697
35°	1572	1559	1527	1495	1480	985
45°	1543	1523	1475	1425	1400	1185
55°	1310	1288	1239	1181	1150	1163
65°	905	894	862	817	793	894
75°	472	484	469	448	435	506
85°	143	151	150	146	140	160
90°	0	0	0	0	0	

TEST NUMBER: P1527129

CATALOG NUMBER: 24CGTX-55-F125-L850

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1399.0	1399.0	1399.0	1399.0	1399.0
2.5°	1400.0	1401.1	1401.1	1401.1	1401.1
5°	1403.1	1404.2	1404.2	1404.2	1403.1
7.5°	1408.3	1408.3	1409.3	1408.3	1405.2
10°	1415.5	1415.5	1415.5	1414.5	1413.4
12.5°	1423.8	1424.8	1422.7	1421.7	1420.7
15°	1435.1	1435.1	1432.0	1428.9	1428.9
17.5°	1450.6	1448.5	1444.4	1439.2	1437.2
20°	1466.1	1464.0	1456.8	1448.5	1444.4
22.5°	1483.6	1479.5	1470.2	1458.8	1454.7
25°	1504.2	1498.0	1484.6	1469.2	1463.0
27.5°	1522.8	1514.5	1498.0	1480.5	1470.2
30°	1542.4	1532.1	1510.4	1487.7	1477.4
32.5°	1557.9	1547.6	1519.7	1493.9	1480.5
35°	1572.3	1558.9	1526.9	1494.9	1480.5
37.5°	1578.5	1564.1	1526.9	1489.8	1471.2
40°	1576.4	1561.0	1519.7	1477.4	1455.7
42.5°	1566.1	1547.6	1503.2	1455.7	1431.0
45°	1543.4	1522.8	1475.3	1424.8	1400.0
47.5°	1504.2	1483.6	1433.0	1379.4	1349.5
50°	1452.6	1431.0	1383.5	1323.7	1292.7
52.5°	1387.6	1366.0	1316.5	1255.6	1225.7
55°	1310.3	1287.6	1239.1	1181.3	1150.4
57.5°	1215.4	1198.8	1151.4	1096.7	1066.8
60°	1118.4	1101.9	1058.5	1006.9	977.0
62.5°	1014.2	1000.8	961.6	913.1	887.3
65°	904.8	894.5	861.5	817.1	793.4
67.5°	793.4	789.3	759.3	721.2	700.5
70°	682.0	684.0	659.3	625.2	607.7
72.5°	573.6	580.9	561.2	533.4	521.0
75°	472.5	483.9	469.4	447.8	435.4
77.5°	378.6	394.1	381.7	365.2	354.9
80°	307.4	306.4	301.3	288.9	279.6
82.5°	220.8	224.9	221.8	214.6	209.4
85°	143.4	150.6	149.6	146.5	140.3
87.5°	71.2	79.4	80.5	78.4	75.3
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1527129

CATALOG NUMBER: 24CGTX-55-F125-L850

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	16.6	18.3	17.0	18.6	19.0	15.9	17.7	16.3	18.0	18.3
	3H	18.4	20.0	18.8	20.3	20.7	17.7	19.3	18.1	19.6	20.0
	4H	19.1	20.6	19.5	20.9	21.3	18.4	19.9	18.8	20.2	20.6
	6H	19.6	21.0	20.0	21.4	21.7	19.0	20.3	19.4	20.7	21.1
	8H	19.8	21.1	20.2	21.5	21.9	19.2	20.5	19.6	20.9	21.3
	12H	19.9	21.2	20.4	21.6	22.0	19.3	20.6	19.8	21.0	21.4
4H	2H	17.2	18.7	17.6	19.0	19.4	16.7	18.2	17.1	18.5	18.9
	3H	19.2	20.5	19.6	20.9	21.3	18.7	19.9	19.1	20.3	20.7
	4H	20.1	21.2	20.5	21.6	22.0	19.5	20.6	19.9	21.0	21.5
	6H	20.7	21.7	21.2	22.2	22.6	20.2	21.2	20.6	21.6	22.1
	8H	21.0	21.9	21.4	22.4	22.8	20.4	21.4	20.9	21.8	22.3
	12H	21.2	22.0	21.7	22.5	23.0	20.7	21.5	21.1	22.0	22.5
8H	4H	20.4	21.3	20.8	21.8	22.2	19.9	20.8	20.3	21.3	21.7
	6H	21.2	22.0	21.7	22.5	22.9	20.7	21.5	21.2	22.0	22.4
	8H	21.5	22.2	22.0	22.7	23.2	21.1	21.8	21.6	22.3	22.8
	12H	21.8	22.5	22.3	22.9	23.5	21.4	22.0	21.9	22.5	23.1
12H	4H	20.4	21.3	20.9	21.7	22.2	19.9	20.8	20.4	21.3	21.7
	6H	21.3	22.0	21.8	22.4	23.0	20.8	21.5	21.3	22.0	22.5
	8H	21.7	22.3	22.2	22.8	23.3	21.2	21.8	21.7	22.3	22.9















(END OF REPORT)