

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: P1527127

Luminaire Tested: 24CGTX-55-F125-L835

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1527127
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-L835
Description: CGTX with F125 Lens Option

Light Source:
Ballast/Driver: -

Summary

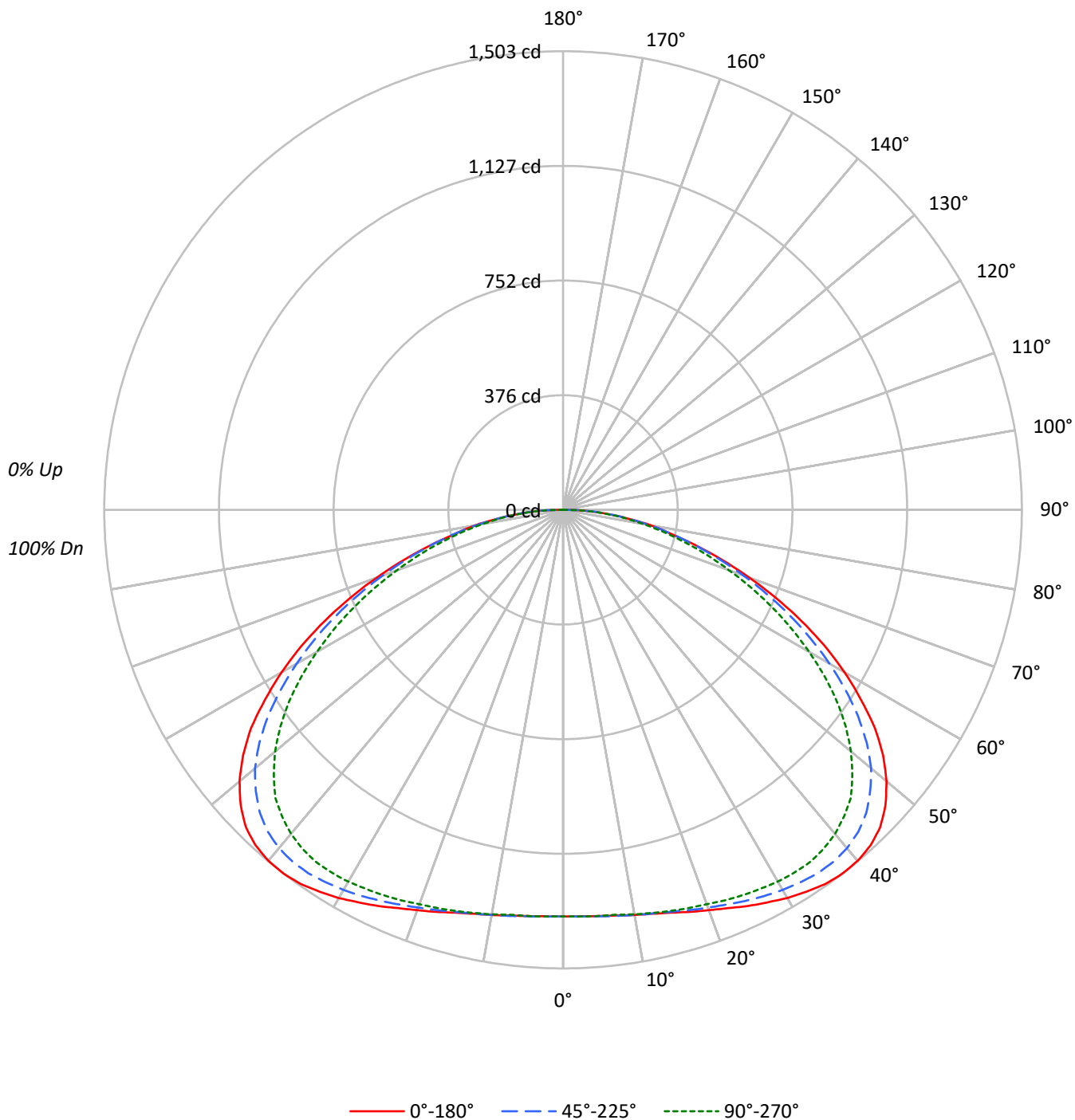
Lumens per Lamp: N/A
Luminaire Lumens: 5633.9 lumens
Efficiency: N/A
Efficacy: 127.8 lumens/watt
Spacing Criteria (0/90/45): 1.69 / 1.6 / 1.72
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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

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Luminous Intensity Polar Plot



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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°	1793	1793	1793
5°	1805	1806	1805
10°	1842	1842	1839
15°	1904	1900	1896
20°	1999	1986	1969
25°	2127	2099	2068
30°	2282	2235	2186
35°	2459	2388	2316
40°	2637	2542	2435
45°	2797	2673	2537
50°	2896	2758	2577
55°	2927	2768	2570
60°	2866	2713	2504
65°	2743	2612	2405
70°	2555	2470	2277
75°	2339	2324	2155
80°	2269	2223	2063
85°	2109	2200	2062

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 55°

Luminance: 2927 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.9	2.3
10°-20°	387.6	6.9
20°-30°	654.6	11.6
30°-40°	910.6	16.2
40°-50°	1077.9	19.1
50°-60°	1045.8	18.6
60°-70°	805.7	14.3
70°-80°	470.1	8.3
80°-90°	153.7	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°	1170.1	20.8
0°-40°	2080.7	36.9
0°-60°	4204.3	74.6
0°-90°	5633.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5633.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1332	1332	1332	1332	1332	
5°	1336	1337	1337	1337	1336	128
15°	1367	1367	1364	1361	1361	389
25°	1432	1427	1414	1399	1393	664
35°	1497	1485	1454	1424	1410	938
45°	1470	1450	1405	1357	1333	1129
55°	1248	1226	1180	1125	1096	1108
65°	862	852	820	778	756	851
75°	450	461	447	426	415	482
85°	137	143	142	140	134	153
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1332.3	1332.3	1332.3	1332.3	1332.3
2.5°	1333.3	1334.2	1334.2	1334.2	1334.2
5°	1336.2	1337.2	1337.2	1337.2	1336.2
7.5°	1341.1	1341.1	1342.1	1341.1	1338.2
10°	1348.0	1348.0	1348.0	1347.0	1346.0
12.5°	1355.9	1356.8	1354.9	1353.9	1352.9
15°	1366.7	1366.7	1363.7	1360.8	1360.8
17.5°	1381.4	1379.4	1375.5	1370.6	1368.6
20°	1396.1	1394.2	1387.3	1379.4	1375.5
22.5°	1412.8	1408.9	1400.1	1389.3	1385.3
25°	1432.5	1426.6	1413.8	1399.1	1393.2
27.5°	1450.2	1442.3	1426.6	1409.9	1400.1
30°	1468.9	1459.0	1438.4	1416.8	1407.0
32.5°	1483.6	1473.8	1447.2	1422.7	1409.9
35°	1497.3	1484.6	1454.1	1423.7	1409.9
37.5°	1503.2	1489.5	1454.1	1418.7	1401.1
40°	1501.3	1486.5	1447.2	1407.0	1386.3
42.5°	1491.4	1473.8	1431.5	1386.3	1362.7
45°	1469.8	1450.2	1405.0	1356.8	1333.3
47.5°	1432.5	1412.8	1364.7	1313.6	1285.1
50°	1383.4	1362.7	1317.5	1260.6	1231.1
52.5°	1321.5	1300.8	1253.7	1195.7	1167.2
55°	1247.8	1226.2	1180.0	1125.0	1095.5
57.5°	1157.4	1141.7	1096.5	1044.4	1015.9
60°	1065.0	1049.3	1008.1	958.9	930.4
62.5°	965.8	953.0	915.7	869.5	845.0
65°	861.7	851.8	820.4	778.1	755.5
67.5°	755.5	751.6	723.1	686.8	667.1
70°	649.4	651.4	627.8	595.4	578.7
72.5°	546.3	553.2	534.5	508.0	496.2
75°	450.0	460.8	447.0	426.4	414.6
77.5°	360.6	375.3	363.5	347.8	338.0
80°	292.8	291.8	286.9	275.1	266.3
82.5°	210.3	214.2	211.2	204.4	199.4
85°	136.6	143.4	142.5	139.5	133.6
87.5°	67.8	75.7	76.6	74.7	71.7
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	16.4	18.2	16.8	18.5	18.8	15.7	17.5	16.1	17.8	18.1
	3H	18.2	19.8	18.6	20.1	20.5	17.5	19.1	17.9	19.4	19.8
	4H	18.9	20.4	19.3	20.7	21.1	18.2	19.7	18.6	20.1	20.4
	6H	19.4	20.8	19.8	21.2	21.6	18.8	20.2	19.2	20.5	20.9
	8H	19.6	21.0	20.0	21.3	21.7	19.0	20.3	19.4	20.7	21.1
	12H	19.8	21.0	20.2	21.4	21.9	19.2	20.4	19.6	20.8	21.2
4H	2H	17.0	18.5	17.4	18.9	19.2	16.5	18.0	16.9	18.3	18.7
	3H	19.1	20.3	19.5	20.7	21.1	18.5	19.8	18.9	20.1	20.5
	4H	19.9	21.0	20.3	21.4	21.9	19.3	20.5	19.7	20.9	21.3
	6H	20.6	21.6	21.0	22.0	22.5	20.0	21.0	20.5	21.4	21.9
	8H	20.8	21.8	21.3	22.2	22.7	20.3	21.2	20.7	21.6	22.1
	12H	21.0	21.9	21.5	22.3	22.8	20.5	21.3	21.0	21.8	22.3
8H	4H	20.2	21.1	20.7	21.6	22.0	19.7	20.6	20.2	21.1	21.5
	6H	21.0	21.8	21.5	22.3	22.8	20.5	21.3	21.0	21.8	22.3
	8H	21.4	22.1	21.9	22.6	23.1	20.9	21.6	21.4	22.1	22.6
	12H	21.7	22.3	22.2	22.8	23.3	21.2	21.8	21.7	22.3	22.9
12H	4H	20.2	21.1	20.7	21.6	22.0	19.8	20.6	20.2	21.1	21.5
	6H	21.1	21.8	21.6	22.3	22.8	20.6	21.4	21.2	21.8	22.3
	8H	21.5	22.1	22.0	22.6	23.2	21.1	21.7	21.6	22.2	22.7















(END OF REPORT)