

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: P1527128

Luminaire Tested: 24CGTX-55-F125-L840

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1527128
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-L840
Description: CGTX with F125 Lens Option

Light Source:
Ballast/Driver: -

Summary

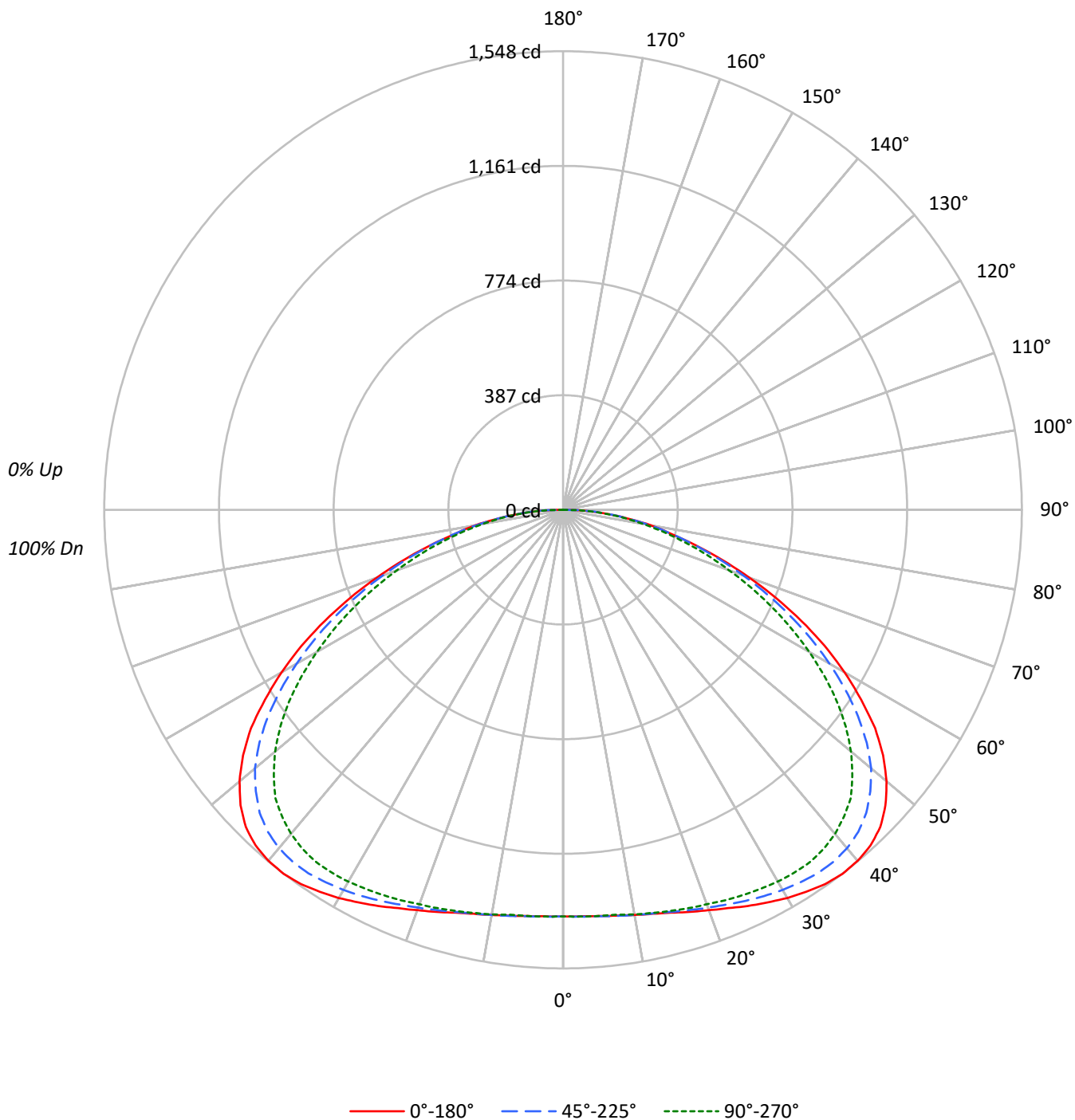
Lumens per Lamp: N/A
Luminaire Lumens: 5803.0 lumens
Efficiency: N/A
Efficacy: 131.6 lumens/watt
Spacing Criteria (0/90/45): 1.69 / 1.6 / 1.72
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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			
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°	1846	1846	1846
5°	1859	1860	1859
10°	1897	1897	1894
15°	1961	1957	1952
20°	2059	2046	2029
25°	2191	2162	2130
30°	2350	2302	2252
35°	2533	2460	2385
40°	2716	2618	2508
45°	2881	2754	2613
50°	2983	2841	2654
55°	3015	2851	2647
60°	2952	2794	2579
65°	2826	2690	2478
70°	2631	2544	2345
75°	2410	2394	2220
80°	2337	2290	2125
85°	2172	2265	2124

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 55°

Luminance: 3015 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.8	2.3
10°-20°	399.2	6.9
20°-30°	674.2	11.6
30°-40°	937.9	16.2
40°-50°	1110.3	19.1
50°-60°	1077.2	18.6
60°-70°	829.9	14.3
70°-80°	484.3	8.3
80°-90°	158.3	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°	1205.2	20.8
0°-40°	2143.1	36.9
0°-60°	4330.6	74.6
0°-90°	5803.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5803.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1372	1372	1372	1372	1372	
5°	1376	1377	1377	1377	1376	132
15°	1408	1408	1405	1402	1402	400
25°	1476	1469	1456	1441	1435	684
35°	1542	1529	1498	1466	1452	966
45°	1514	1494	1447	1398	1373	1163
55°	1285	1263	1215	1159	1128	1141
65°	888	877	845	802	778	877
75°	464	475	460	439	427	497
85°	141	148	147	144	138	157
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1372.3	1372.3	1372.3	1372.3	1372.3
2.5°	1373.3	1374.3	1374.3	1374.3	1374.3
5°	1376.3	1377.3	1377.3	1377.3	1376.3
7.5°	1381.4	1381.4	1382.4	1381.4	1378.3
10°	1388.5	1388.5	1388.5	1387.5	1386.4
12.5°	1396.6	1397.6	1395.5	1394.5	1393.5
15°	1407.7	1407.7	1404.7	1401.6	1401.6
17.5°	1422.9	1420.8	1416.8	1411.7	1409.7
20°	1438.1	1436.0	1428.9	1420.8	1416.8
22.5°	1455.3	1451.2	1442.1	1431.0	1426.9
25°	1475.5	1469.4	1456.3	1441.1	1435.0
27.5°	1493.7	1485.6	1469.4	1452.2	1442.1
30°	1512.9	1502.8	1481.6	1459.3	1449.2
32.5°	1528.1	1518.0	1490.7	1465.4	1452.2
35°	1542.3	1529.1	1497.8	1466.4	1452.2
37.5°	1548.4	1534.2	1497.8	1461.3	1443.1
40°	1546.3	1531.2	1490.7	1449.2	1427.9
42.5°	1536.2	1518.0	1474.5	1427.9	1403.6
45°	1514.0	1493.7	1447.2	1397.6	1373.3
47.5°	1475.5	1455.3	1405.7	1353.0	1323.7
50°	1424.9	1403.6	1357.1	1298.4	1268.0
52.5°	1361.1	1339.9	1291.3	1231.6	1202.3
55°	1285.2	1263.0	1215.4	1158.7	1128.4
57.5°	1192.1	1175.9	1129.4	1075.8	1046.4
60°	1097.0	1080.8	1038.3	987.7	958.4
62.5°	994.8	981.6	943.2	895.6	870.3
65°	887.5	877.4	845.0	801.5	778.2
67.5°	778.2	774.2	744.8	707.4	687.1
70°	668.9	671.0	646.7	613.3	596.1
72.5°	562.7	569.8	550.5	523.2	511.1
75°	463.5	474.6	460.5	439.2	427.1
77.5°	371.4	386.6	374.4	358.2	348.1
80°	301.6	300.6	295.5	283.4	274.3
82.5°	216.6	220.6	217.6	210.5	205.4
85°	140.7	147.8	146.7	143.7	137.6
87.5°	69.8	77.9	78.9	76.9	73.9
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	16.5	18.3	16.9	18.6	18.9	15.9	17.6	16.2	17.9	18.2
	3H	18.3	19.9	18.7	20.2	20.6	17.6	19.2	18.0	19.5	19.9
	4H	19.0	20.5	19.4	20.8	21.2	18.3	19.8	18.7	20.2	20.5
	6H	19.5	20.9	19.9	21.3	21.7	18.9	20.3	19.3	20.6	21.0
	8H	19.7	21.1	20.2	21.4	21.8	19.1	20.4	19.5	20.8	21.2
	12H	19.9	21.1	20.3	21.5	22.0	19.3	20.5	19.7	20.9	21.3
4H	2H	17.1	18.6	17.5	19.0	19.3	16.6	18.1	17.0	18.4	18.8
	3H	19.2	20.4	19.6	20.8	21.2	18.6	19.9	19.0	20.3	20.7
	4H	20.0	21.1	20.4	21.5	22.0	19.4	20.6	19.8	21.0	21.4
	6H	20.7	21.7	21.1	22.1	22.6	20.1	21.1	20.6	21.5	22.0
	8H	20.9	21.9	21.4	22.3	22.8	20.4	21.3	20.8	21.8	22.2
	12H	21.1	22.0	21.6	22.4	22.9	20.6	21.4	21.1	21.9	22.4
8H	4H	20.3	21.2	20.8	21.7	22.1	19.8	20.7	20.3	21.2	21.6
	6H	21.1	21.9	21.6	22.4	22.9	20.6	21.4	21.1	21.9	22.4
	8H	21.5	22.2	22.0	22.7	23.2	21.0	21.7	21.5	22.2	22.7
	12H	21.8	22.4	22.3	22.9	23.4	21.3	21.9	21.8	22.4	23.0
12H	4H	20.3	21.2	20.8	21.7	22.1	19.9	20.7	20.3	21.2	21.7
	6H	21.2	21.9	21.7	22.4	22.9	20.7	21.5	21.3	21.9	22.4
	8H	21.6	22.2	22.1	22.7	23.3	21.2	21.8	21.7	22.3	22.8













(END OF REPORT)