

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: P1527133

Luminaire Tested: 24CGTX-55HE-F125-L850

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1527133
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-55HE-F125-L850
Description: CGTX with F125 Lens Option

Light Source:
Ballast/Driver: -

Summary

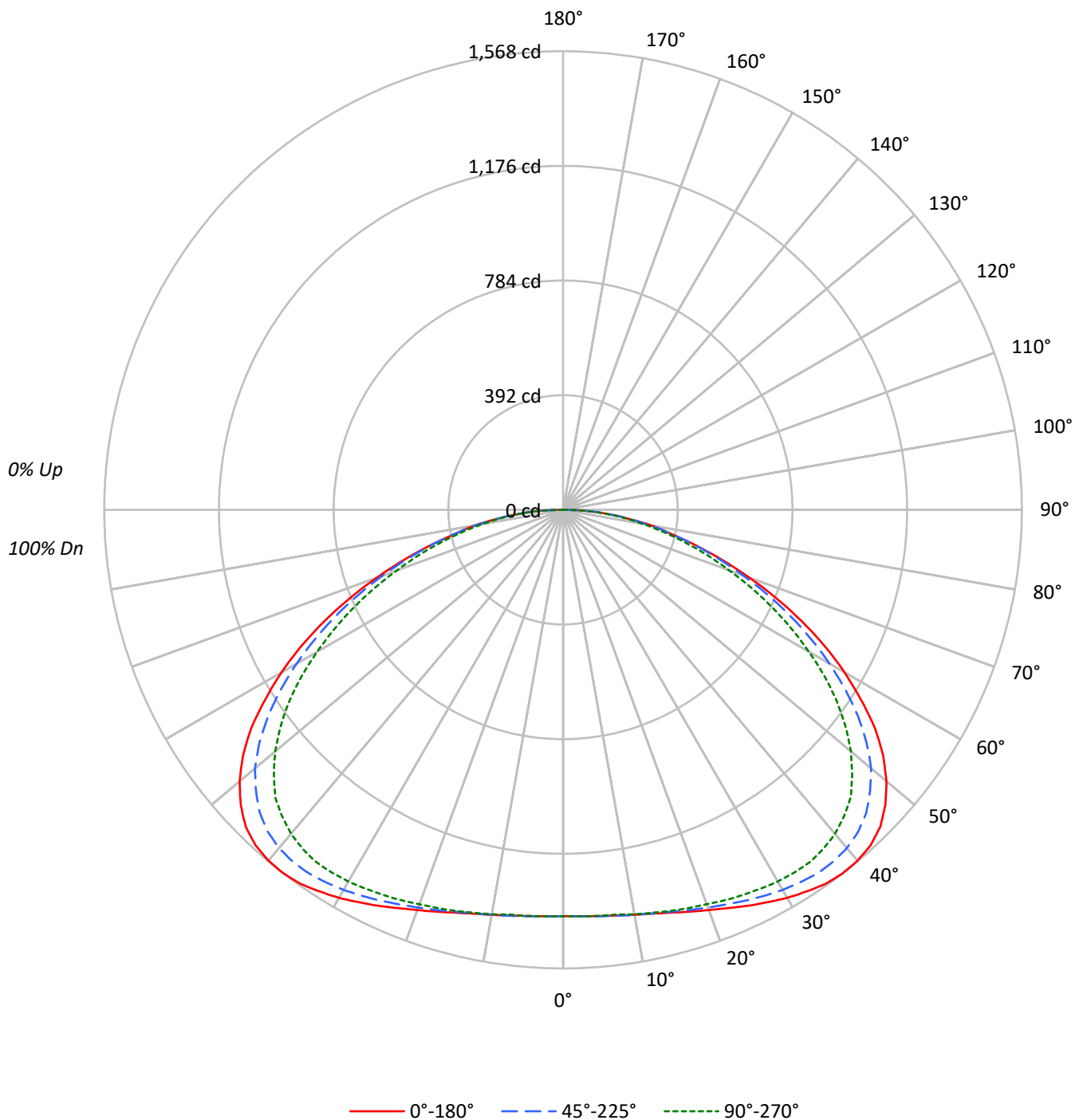
Lumens per Lamp: N/A
Luminaire Lumens: 5876.0 lumens
Efficiency: N/A
Efficacy: 142.3 lumens/watt
Spacing Criteria (0/90/45): 1.69 / 1.6 / 1.72
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 41.3
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				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°	1870	1870	1870
5°	1882	1884	1882
10°	1921	1921	1918
15°	1986	1981	1977
20°	2085	2072	2054
25°	2218	2189	2157
30°	2380	2331	2280
35°	2565	2491	2415
40°	2750	2651	2540
45°	2917	2788	2646
50°	3020	2876	2688
55°	3053	2887	2680
60°	2989	2829	2611
65°	2861	2724	2509
70°	2664	2576	2375
75°	2440	2424	2248
80°	2366	2318	2152
85°	2198	2294	2152

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 55°
Luminance: 3053 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.4	2.3
10°-20°	404.2	6.9
20°-30°	682.7	11.6
30°-40°	949.7	16.2
40°-50°	1124.2	19.1
50°-60°	1090.7	18.6
60°-70°	840.4	14.3
70°-80°	490.3	8.3
80°-90°	160.2	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°	1220.4	20.8
0°-40°	2170.1	36.9
0°-60°	4385.0	74.6
0°-90°	5876.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5876.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1390	1390	1390	1390	1390	
5°	1394	1395	1395	1395	1394	133
15°	1425	1425	1422	1419	1419	405
25°	1494	1488	1475	1459	1453	692
35°	1562	1548	1517	1485	1470	978
45°	1533	1512	1465	1415	1391	1177
55°	1301	1279	1231	1173	1143	1155
65°	899	888	856	812	788	888
75°	469	481	466	445	432	503
85°	142	150	149	146	139	159
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1389.5	1389.5	1389.5	1389.5	1389.5
2.5°	1390.6	1391.6	1391.6	1391.6	1391.6
5°	1393.6	1394.7	1394.7	1394.7	1393.6
7.5°	1398.8	1398.8	1399.8	1398.8	1395.7
10°	1405.9	1405.9	1405.9	1404.9	1403.9
12.5°	1414.1	1415.2	1413.1	1412.1	1411.1
15°	1425.4	1425.4	1422.3	1419.3	1419.3
17.5°	1440.8	1438.7	1434.6	1429.5	1427.5
20°	1456.1	1454.1	1446.9	1438.7	1434.6
22.5°	1473.6	1469.5	1460.2	1449.0	1444.9
25°	1494.1	1487.9	1474.6	1459.2	1453.1
27.5°	1512.5	1504.3	1487.9	1470.5	1460.2
30°	1532.0	1521.7	1500.2	1477.7	1467.4
32.5°	1547.3	1537.1	1509.4	1483.8	1470.5
35°	1561.7	1548.4	1516.6	1484.8	1470.5
37.5°	1567.8	1553.5	1516.6	1479.7	1461.3
40°	1565.8	1550.4	1509.4	1467.4	1445.9
42.5°	1555.5	1537.1	1493.0	1445.9	1421.3
45°	1533.0	1512.5	1465.4	1415.2	1390.6
47.5°	1494.1	1473.6	1423.4	1370.1	1340.3
50°	1442.8	1421.3	1374.2	1314.7	1284.0
52.5°	1378.3	1356.7	1307.6	1247.1	1217.4
55°	1301.4	1278.9	1230.7	1173.3	1142.6
57.5°	1207.1	1190.7	1143.6	1089.3	1059.6
60°	1110.8	1094.4	1051.4	1000.1	970.4
62.5°	1007.3	994.0	955.0	906.9	881.3
65°	898.7	888.4	855.7	811.6	788.0
67.5°	788.0	783.9	754.2	716.3	695.8
70°	677.3	679.4	654.8	621.0	603.6
72.5°	569.8	576.9	557.5	529.8	517.5
75°	469.3	480.6	466.3	444.7	432.4
77.5°	376.1	391.4	379.2	362.8	352.5
80°	305.4	304.3	299.2	286.9	277.7
82.5°	219.3	223.4	220.3	213.1	208.0
85°	142.4	149.6	148.6	145.5	139.4
87.5°	70.7	78.9	79.9	77.9	74.8
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	16.6	18.3	16.9	18.6	18.9	15.9	17.6	16.3	17.9	18.3
	3H	18.4	20.0	18.8	20.3	20.6	17.7	19.3	18.1	19.6	19.9
	4H	19.1	20.5	19.4	20.9	21.3	18.4	19.9	18.8	20.2	20.6
	6H	19.6	21.0	20.0	21.3	21.7	18.9	20.3	19.3	20.7	21.1
	8H	19.8	21.1	20.2	21.5	21.9	19.1	20.5	19.6	20.8	21.2
	12H	19.9	21.2	20.3	21.6	22.0	19.3	20.6	19.7	21.0	21.4
4H	2H	17.2	18.7	17.6	19.0	19.4	16.6	18.1	17.0	18.5	18.8
	3H	19.2	20.5	19.6	20.9	21.3	18.6	19.9	19.1	20.3	20.7
	4H	20.0	21.2	20.5	21.6	22.0	19.5	20.6	19.9	21.0	21.4
	6H	20.7	21.7	21.2	22.1	22.6	20.1	21.2	20.6	21.6	22.0
	8H	21.0	21.9	21.4	22.3	22.8	20.4	21.4	20.9	21.8	22.3
	12H	21.2	22.0	21.6	22.5	23.0	20.6	21.5	21.1	22.0	22.4
8H	4H	20.3	21.3	20.8	21.7	22.2	19.8	20.8	20.3	21.2	21.7
	6H	21.2	22.0	21.7	22.4	22.9	20.7	21.5	21.2	22.0	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	23.5	21.4	22.0	21.9	22.5	23.0
12H	4H	20.4	21.2	20.9	21.7	22.2	19.9	20.8	20.4	21.2	21.7
	6H	21.3	22.0	21.8	22.4	23.0	20.8	21.5	21.3	22.0	22.5
	8H	21.6	22.3	22.2	22.8	23.3	21.2	21.8	21.7	22.3	22.9















(END OF REPORT)