

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: P1527132

Luminaire Tested: 24CGTX-55HE-F125-L840

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1527132
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-L840
Description: CGTX with F125 Lens Option

Light Source:
Ballast/Driver: -

Summary

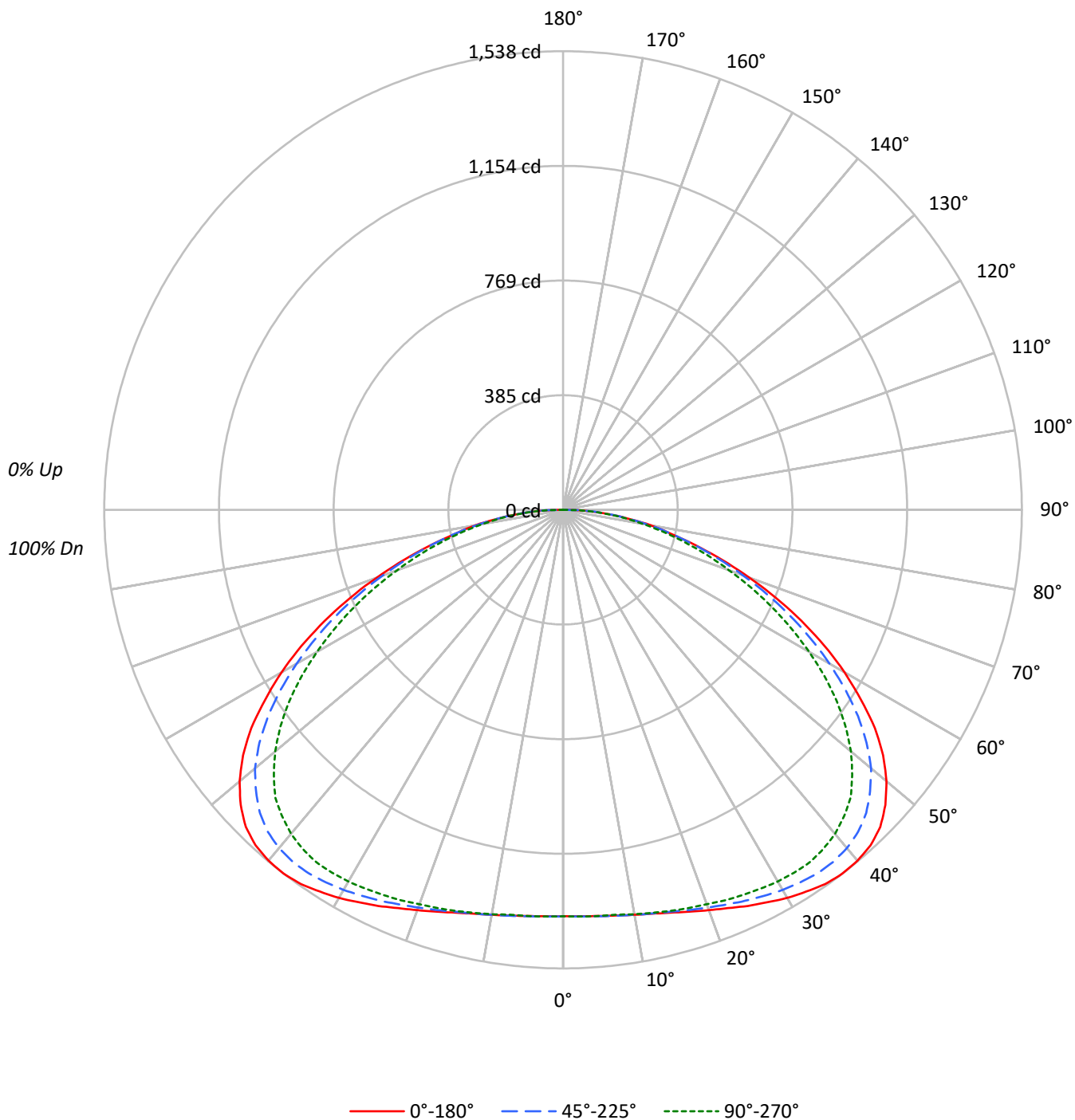
Lumens per Lamp: N/A
Luminaire Lumens: 5764.0 lumens
Efficiency: N/A
Efficacy: 139.6 lumens/watt
Spacing Criteria (0/90/45): 1.69 / 1.6 / 1.72
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	1834	1834	1834
5°	1846	1848	1846
10°	1884	1884	1881
15°	1948	1943	1939
20°	2045	2032	2015
25°	2176	2147	2116
30°	2335	2286	2236
35°	2516	2444	2369
40°	2698	2601	2491
45°	2861	2735	2596
50°	2963	2822	2636
55°	2995	2832	2629
60°	2932	2775	2562
65°	2807	2672	2461
70°	2614	2527	2329
75°	2393	2378	2205
80°	2321	2274	2111
85°	2157	2251	2110

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 55°
Luminance: 2995 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.9	2.3
10°-20°	396.5	6.9
20°-30°	669.7	11.6
30°-40°	931.6	16.2
40°-50°	1102.8	19.1
50°-60°	1069.9	18.6
60°-70°	824.3	14.3
70°-80°	481.0	8.3
80°-90°	157.2	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°	1197.1	20.8
0°-40°	2128.7	36.9
0°-60°	4301.5	74.6
0°-90°	5764.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5764.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1363	1363	1363	1363	1363	
5°	1367	1368	1368	1368	1367	131
15°	1398	1398	1395	1392	1392	398
25°	1466	1460	1446	1431	1425	679
35°	1532	1519	1488	1456	1442	960
45°	1504	1484	1437	1388	1364	1155
55°	1277	1254	1207	1151	1121	1133
65°	882	872	839	796	773	871
75°	460	471	457	436	424	493
85°	140	147	146	143	137	156
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1363.0	1363.0	1363.0	1363.0	1363.0
2.5°	1364.1	1365.1	1365.1	1365.1	1365.1
5°	1367.1	1368.1	1368.1	1368.1	1367.1
7.5°	1372.1	1372.1	1373.1	1372.1	1369.1
10°	1379.1	1379.1	1379.1	1378.1	1377.1
12.5°	1387.2	1388.2	1386.2	1385.2	1384.2
15°	1398.2	1398.2	1395.2	1392.2	1392.2
17.5°	1413.3	1411.3	1407.3	1402.3	1400.2
20°	1428.4	1426.4	1419.3	1411.3	1407.3
22.5°	1445.5	1441.5	1432.4	1421.4	1417.3
25°	1465.6	1459.5	1446.5	1431.4	1425.4
27.5°	1483.7	1475.6	1459.5	1442.5	1432.4
30°	1502.8	1492.7	1471.6	1449.5	1439.4
32.5°	1517.9	1507.8	1480.7	1455.5	1442.5
35°	1531.9	1518.9	1487.7	1456.5	1442.5
37.5°	1538.0	1523.9	1487.7	1451.5	1433.4
40°	1535.9	1520.9	1480.7	1439.4	1418.3
42.5°	1525.9	1507.8	1464.6	1418.3	1394.2
45°	1503.8	1483.7	1437.4	1388.2	1364.1
47.5°	1465.6	1445.5	1396.2	1344.0	1314.8
50°	1415.3	1394.2	1348.0	1289.7	1259.5
52.5°	1352.0	1330.9	1282.6	1223.3	1194.2
55°	1276.6	1254.5	1207.2	1151.0	1120.8
57.5°	1184.1	1168.0	1121.8	1068.5	1039.4
60°	1089.6	1073.6	1031.3	981.1	951.9
62.5°	988.1	975.0	936.8	889.6	864.5
65°	881.6	871.5	839.3	796.1	773.0
67.5°	773.0	769.0	739.8	702.6	682.5
70°	664.4	666.4	642.3	609.2	592.1
72.5°	558.9	565.9	546.8	519.7	507.6
75°	460.4	471.4	457.4	436.3	424.2
77.5°	368.9	384.0	371.9	355.8	345.8
80°	299.5	298.5	293.5	281.5	272.4
82.5°	215.1	219.1	216.1	209.1	204.1
85°	139.7	146.8	145.8	142.7	136.7
87.5°	69.4	77.4	78.4	76.4	73.4
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	18.2	16.9	18.5	18.9	15.8	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	20.1	20.5
	6H	19.5	20.9	19.9	21.3	21.6	18.9	20.2	19.3	20.6	21.0
	8H	19.7	21.0	20.1	21.4	21.8	19.1	20.4	19.5	20.8	21.2
	12H	19.9	21.1	20.3	21.5	21.9	19.2	20.5	19.7	20.9	21.3
4H	2H	17.1	18.6	17.5	18.9	19.3	16.6	18.1	17.0	18.4	18.8
	3H	19.1	20.4	19.6	20.8	21.2	18.6	19.8	19.0	20.2	20.6
	4H	20.0	21.1	20.4	21.5	21.9	19.4	20.5	19.8	20.9	21.4
	6H	20.6	21.6	21.1	22.1	22.5	20.1	21.1	20.5	21.5	22.0
	8H	20.9	21.8	21.3	22.3	22.7	20.3	21.3	20.8	21.7	22.2
	12H	21.1	21.9	21.6	22.4	22.9	20.6	21.4	21.0	21.9	22.4
8H	4H	20.3	21.2	20.7	21.7	22.1	19.8	20.7	20.2	21.2	21.6
	6H	21.1	21.9	21.6	22.4	22.8	20.6	21.4	21.1	21.9	22.4
	8H	21.4	22.1	21.9	22.7	23.1	21.0	21.7	21.5	22.2	22.7
	12H	21.7	22.4	22.2	22.9	23.4	21.3	21.9	21.8	22.4	23.0
12H	4H	20.3	21.2	20.8	21.6	22.1	19.8	20.7	20.3	21.2	21.6
	6H	21.2	21.9	21.7	22.4	22.9	20.7	21.4	21.2	21.9	22.4
	8H	21.6	22.2	22.1	22.7	23.3	21.1	21.8	21.6	22.2	22.8













(END OF REPORT)