

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: P1527130

Luminaire Tested: 24CGTX-55HE-F125-L830

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1527130
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-L830
Description: CGTX with F125 Lens Option

Light Source:
Ballast/Driver: -

Summary

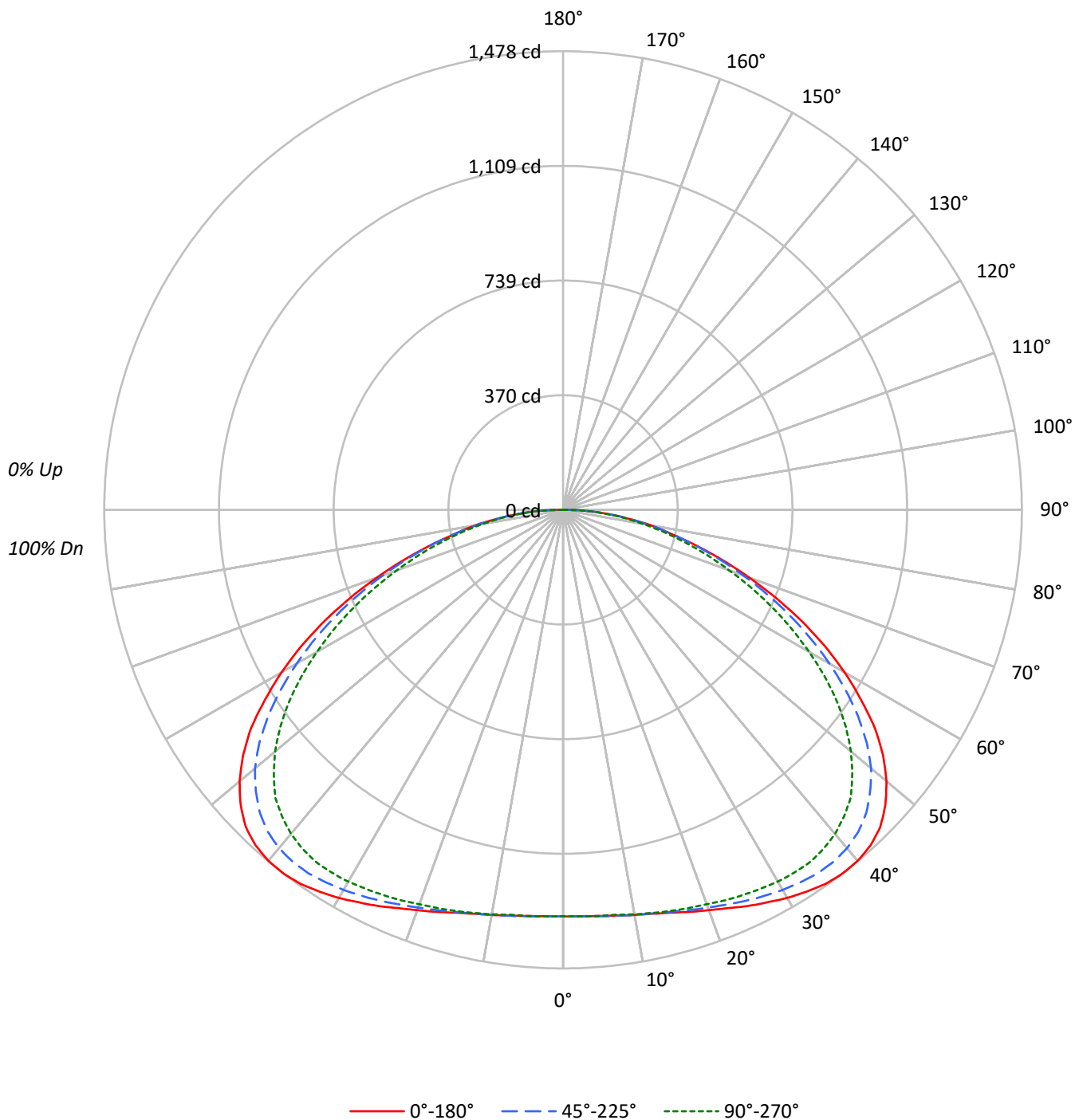
Lumens per Lamp: N/A
Luminaire Lumens: 5540.0 lumens
Efficiency: N/A
Efficacy: 134.1 lumens/watt
Spacing Criteria (0/90/45): 1.69 / 1.6 / 1.72
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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

TEST NUMBER: P1527130

CATALOG NUMBER: 24CGTX-55HE-F125-L830

Luminous Intensity Polar Plot



TEST NUMBER: P1527130

CATALOG NUMBER: 24CGTX-55HE-F125-L830

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°	1763	1763	1763
5°	1775	1776	1775
10°	1811	1811	1808
15°	1872	1868	1864
20°	1966	1953	1937
25°	2091	2064	2034
30°	2244	2197	2149
35°	2418	2349	2277
40°	2593	2500	2394
45°	2750	2629	2495
50°	2847	2712	2534
55°	2878	2722	2527
60°	2818	2668	2462
65°	2698	2568	2365
70°	2512	2429	2239
75°	2300	2285	2119
80°	2231	2186	2029
85°	2073	2163	2029

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 55°

Luminance: 2878 cd/sqm

TEST NUMBER: P1527130

CATALOG NUMBER: 24CGTX-55HE-F125-L830

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.8	2.3
10°-20°	381.1	6.9
20°-30°	643.7	11.6
30°-40°	895.4	16.2
40°-50°	1059.9	19.1
50°-60°	1028.3	18.6
60°-70°	792.3	14.3
70°-80°	462.3	8.3
80°-90°	151.1	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°	1150.6	20.8
0°-40°	2046.0	36.9
0°-60°	4134.3	74.6
0°-90°	5540.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5540.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1310	1310	1310	1310	1310	
5°	1314	1315	1315	1315	1314	126
15°	1344	1344	1341	1338	1338	382
25°	1409	1403	1390	1376	1370	653
35°	1472	1460	1430	1400	1386	922
45°	1445	1426	1382	1334	1311	1110
55°	1227	1206	1160	1106	1077	1089
65°	847	838	807	765	743	837
75°	442	453	440	419	408	474
85°	134	141	140	137	131	150
90°	0	0	0	0	0	

TEST NUMBER: P1527130

CATALOG NUMBER: 24CGTX-55HE-F125-L830

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1310.1	1310.1	1310.1	1310.1	1310.1
2.5°	1311.0	1312.0	1312.0	1312.0	1312.0
5°	1313.9	1314.9	1314.9	1314.9	1313.9
7.5°	1318.8	1318.8	1319.7	1318.8	1315.9
10°	1325.5	1325.5	1325.5	1324.6	1323.6
12.5°	1333.3	1334.2	1332.3	1331.3	1330.4
15°	1343.9	1343.9	1341.0	1338.1	1338.1
17.5°	1358.4	1356.5	1352.6	1347.8	1345.8
20°	1372.9	1370.9	1364.2	1356.5	1352.6
22.5°	1389.3	1385.4	1376.7	1366.1	1362.3
25°	1408.6	1402.8	1390.3	1375.8	1370.0
27.5°	1426.0	1418.3	1402.8	1386.4	1376.7
30°	1444.4	1434.7	1414.4	1393.2	1383.5
32.5°	1458.9	1449.2	1423.1	1399.0	1386.4
35°	1472.4	1459.8	1429.9	1399.9	1386.4
37.5°	1478.2	1464.7	1429.9	1395.1	1377.7
40°	1476.3	1461.8	1423.1	1383.5	1363.2
42.5°	1466.6	1449.2	1407.7	1363.2	1340.0
45°	1445.3	1426.0	1381.6	1334.2	1311.0
47.5°	1408.6	1389.3	1342.0	1291.7	1263.7
50°	1360.3	1340.0	1295.6	1239.6	1210.6
52.5°	1299.5	1279.2	1232.8	1175.8	1147.8
55°	1227.0	1205.7	1160.3	1106.2	1077.2
57.5°	1138.1	1122.6	1078.2	1027.0	999.0
60°	1047.3	1031.8	991.3	942.9	914.9
62.5°	949.7	937.2	900.4	855.0	830.9
65°	847.3	837.6	806.7	765.2	743.0
67.5°	743.0	739.1	711.1	675.3	656.0
70°	638.6	640.5	617.4	585.5	569.1
72.5°	537.2	543.9	525.6	499.5	487.9
75°	442.5	453.1	439.6	419.3	407.7
77.5°	354.6	369.1	357.5	342.0	332.4
80°	287.9	286.9	282.1	270.5	261.8
82.5°	206.8	210.6	207.7	201.0	196.1
85°	134.3	141.1	140.1	137.2	131.4
87.5°	66.7	74.4	75.4	73.4	70.5
90°	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P1527130

CATALOG NUMBER: 24CGTX-55HE-F125-L830

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	18.1	16.7	18.4	18.7	15.7	17.4	16.1	17.7	18.1
	3H	18.2	19.8	18.6	20.1	20.4	17.5	19.1	17.9	19.4	19.7
	4H	18.8	20.3	19.2	20.7	21.1	18.2	19.7	18.6	20.0	20.4
	6H	19.4	20.8	19.8	21.1	21.5	18.7	20.1	19.1	20.5	20.9
	8H	19.6	20.9	20.0	21.3	21.7	18.9	20.3	19.4	20.6	21.0
	12H	19.7	21.0	20.1	21.4	21.8	19.1	20.4	19.5	20.7	21.2
4H	2H	17.0	18.4	17.4	18.8	19.2	16.4	17.9	16.8	18.3	18.6
	3H	19.0	20.3	19.4	20.7	21.1	18.4	19.7	18.8	20.1	20.5
	4H	19.8	21.0	20.3	21.4	21.8	19.3	20.4	19.7	20.8	21.2
	6H	20.5	21.5	21.0	21.9	22.4	19.9	20.9	20.4	21.4	21.8
	8H	20.8	21.7	21.2	22.1	22.6	20.2	21.2	20.7	21.6	22.1
	12H	21.0	21.8	21.4	22.3	22.7	20.4	21.3	20.9	21.8	22.2
8H	4H	20.1	21.1	20.6	21.5	22.0	19.6	20.6	20.1	21.0	21.5
	6H	21.0	21.7	21.5	22.2	22.7	20.5	21.3	21.0	21.7	22.2
	8H	21.3	22.0	21.8	22.5	23.0	20.8	21.5	21.3	22.0	22.5
	12H	21.6	22.2	22.1	22.7	23.3	21.2	21.8	21.7	22.3	22.8
12H	4H	20.2	21.0	20.7	21.5	22.0	19.7	20.6	20.2	21.0	21.5
	6H	21.0	21.8	21.6	22.2	22.8	20.6	21.3	21.1	21.8	22.3
	8H	21.4	22.1	21.9	22.6	23.1	21.0	21.6	21.5	22.1	22.7













(END OF REPORT)