

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: P1527051

Luminaire Tested: 22CGTX-50HE-F125-L840

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1527051
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2507-496-2)
Test Lab: INNOVATION CENTER
Issue Date: 8/24/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 22CGTX-50HE-F125-L840
Description: CGTX with F125 Lens Option

Light Source:
Ballast/Driver: -

Summary

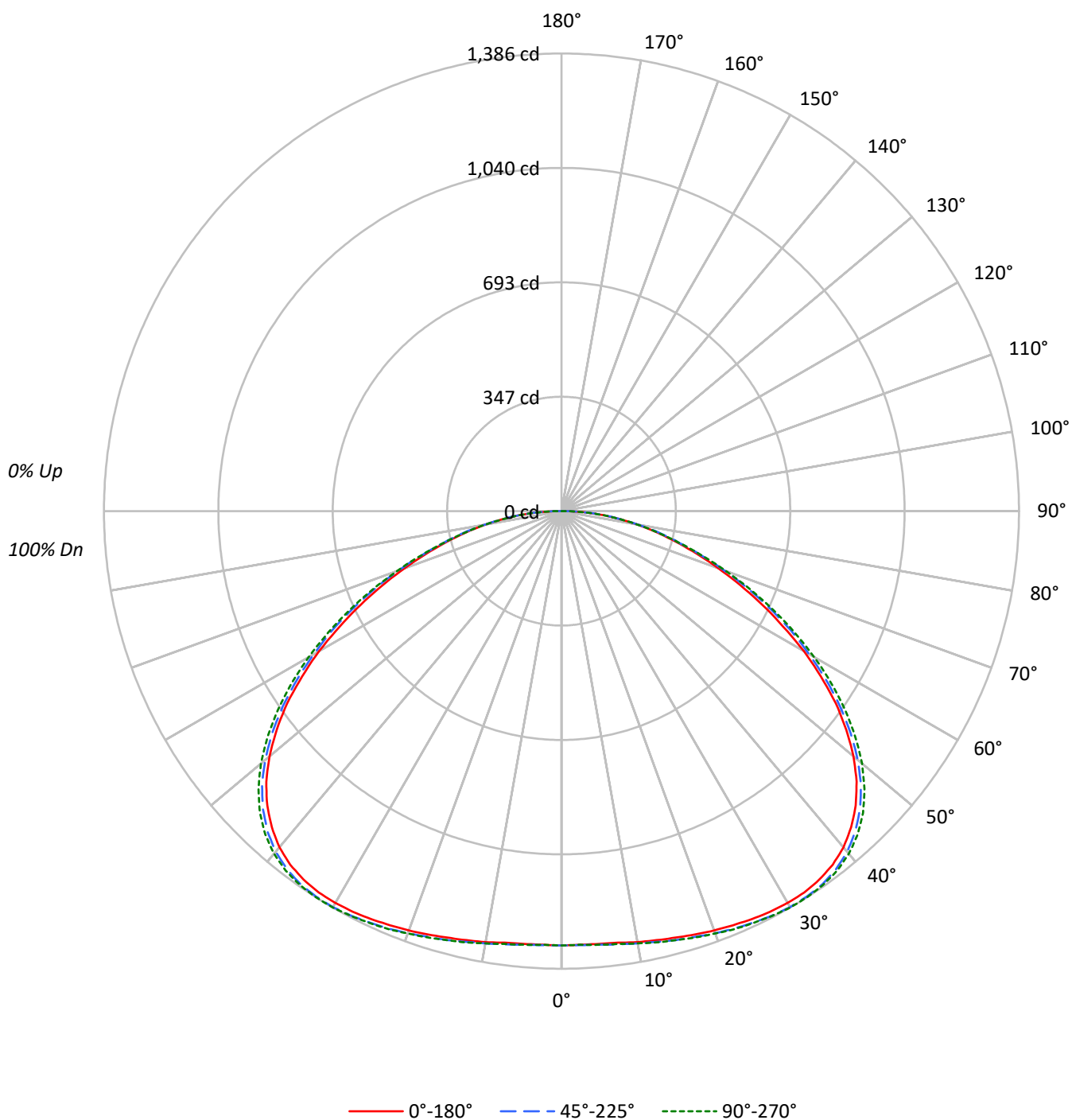
Lumens per Lamp: N/A
Luminaire Lumens: 5106.0 lumens
Efficiency: N/A
Efficacy: 127.6 lumens/watt
Spacing Criteria (0/90/45): 1.56 / 1.58 / 1.65
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 40
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	103	98	94	105	101	97	93	96	93	90		92	90	87		89	87	84	82
2	98	89	82	76	95	87	80	75	83	78	73		80	75	71		77	73	70	67
3	89	77	69	62	86	76	68	61	73	66	60		70	64	59		67	62	58	56
4	81	68	59	52	78	67	58	51	64	57	51		62	55	50		59	54	49	47
5	74	60	51	44	72	59	50	44	57	49	43		55	48	43		53	47	42	40
6	68	54	45	38	66	53	44	38	51	43	37		49	42	37		48	41	37	34
7	63	49	39	33	61	48	39	33	46	38	33		45	38	32		43	37	32	30
8	58	44	35	29	57	43	35	29	42	34	29		41	34	29		39	33	28	26
9	54	40	32	26	53	40	31	26	38	31	26		37	30	26		36	30	25	24
10	51	37	29	23	49	36	29	23	35	28	23		34	28	23		34	27	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3540	3540	3540
5°	3553	3561	3561
10°	3621	3632	3632
15°	3724	3746	3746
20°	3871	3896	3898
25°	4048	4083	4086
30°	4257	4303	4306
35°	4475	4530	4540
40°	4669	4731	4758
45°	4798	4865	4917
50°	4832	4905	4975
55°	4759	4832	4920
60°	4560	4660	4760
65°	4275	4430	4505
70°	3975	4121	4168
75°	3729	3830	3830
80°	3605	3649	3620
85°	3501	3622	3501

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 50°

Luminance: 4975 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.1	2.5
10°-20°	381.2	7.5
20°-30°	635.3	12.4
30°-40°	860.7	16.9
40°-50°	981.6	19.2
50°-60°	917.6	18.0
60°-70°	685.3	13.4
70°-80°	391.2	7.7
80°-90°	127.0	2.5
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°	1142.6	22.4
0°-40°	2003.3	39.2
0°-60°	3902.5	76.4
0°-90°	5106.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5106.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1315	1315	1315	1315	1315	
5°	1315	1317	1318	1319	1318	126
15°	1337	1341	1345	1346	1345	380
25°	1363	1368	1375	1377	1376	631
35°	1362	1369	1379	1383	1382	852
45°	1261	1266	1278	1287	1292	969
55°	1014	1017	1030	1042	1049	902
65°	671	681	696	700	708	666
75°	359	364	368	369	368	383
85°	113	118	117	115	113	124
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1315.4	1315.4	1315.4	1315.4	1315.4
2.5°	1314.4	1315.4	1315.4	1317.4	1314.4
5°	1315.4	1317.4	1318.3	1319.3	1318.3
7.5°	1318.3	1321.3	1323.2	1324.2	1322.2
10°	1325.2	1327.1	1329.1	1331.0	1329.1
12.5°	1331.0	1334.0	1335.9	1338.9	1337.9
15°	1336.9	1340.8	1344.7	1345.7	1344.7
17.5°	1344.7	1347.7	1351.6	1353.5	1353.5
20°	1351.6	1355.5	1360.4	1362.3	1361.3
22.5°	1357.4	1362.3	1368.2	1371.1	1370.1
25°	1363.3	1368.2	1375.0	1377.0	1376.0
27.5°	1368.2	1374.0	1380.9	1383.8	1381.9
30°	1370.1	1376.0	1384.8	1386.7	1385.8
32.5°	1369.2	1375.0	1383.8	1386.7	1385.8
35°	1362.3	1369.2	1378.9	1382.8	1381.9
37.5°	1349.6	1356.5	1366.2	1371.1	1372.1
40°	1329.1	1335.9	1346.7	1353.5	1354.5
42.5°	1298.8	1305.6	1317.4	1325.2	1328.1
45°	1260.7	1266.5	1278.3	1287.1	1292.0
47.5°	1212.8	1217.7	1230.4	1240.2	1245.0
50°	1154.2	1159.0	1171.7	1181.5	1188.4
52.5°	1087.7	1091.6	1104.3	1116.0	1121.9
55°	1014.4	1017.3	1030.0	1041.8	1048.6
57.5°	931.3	940.1	949.9	960.7	968.5
60°	847.3	854.1	865.9	876.6	884.4
62.5°	757.4	770.1	783.8	789.6	796.5
65°	671.4	681.2	695.8	699.7	707.5
67.5°	586.4	597.1	609.8	612.7	617.6
70°	505.2	514.0	523.8	527.7	529.7
72.5°	429.0	435.9	442.7	445.6	445.6
75°	358.7	364.5	368.4	369.4	368.4
77.5°	295.1	296.1	304.9	299.0	298.1
80°	232.6	232.6	235.5	235.5	233.6
82.5°	172.0	175.9	174.9	174.0	171.0
85°	113.4	118.2	117.3	115.3	113.4
87.5°	55.7	61.6	58.6	61.6	56.7
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	17.8	19.5	18.2	19.8	20.2	18.0	19.7	18.4	20.0	20.3
	3H	19.5	21.1	19.9	21.4	21.7	19.7	21.3	20.1	21.6	22.0
	4H	20.2	21.6	20.6	22.0	22.3	20.4	21.8	20.8	22.2	22.5
	6H	20.7	22.0	21.1	22.4	22.8	20.9	22.2	21.3	22.6	23.0
	8H	20.9	22.2	21.3	22.6	23.0	21.1	22.4	21.5	22.7	23.1
	12H	21.0	22.3	21.5	22.7	23.1	21.2	22.4	21.6	22.8	23.3
4H	2H	18.5	19.9	18.9	20.3	20.7	18.6	20.1	19.0	20.4	20.8
	3H	20.4	21.6	20.8	22.0	22.4	20.6	21.8	21.0	22.2	22.6
	4H	21.2	22.3	21.6	22.7	23.1	21.3	22.4	21.8	22.9	23.3
	6H	21.8	22.8	22.3	23.2	23.7	22.0	23.0	22.4	23.4	23.8
	8H	22.1	23.0	22.5	23.4	23.9	22.2	23.1	22.7	23.6	24.0
	12H	22.3	23.1	22.8	23.6	24.1	22.4	23.2	22.9	23.7	24.2
8H	4H	21.5	22.4	22.0	22.9	23.3	21.6	22.6	22.1	23.0	23.5
	6H	22.3	23.1	22.8	23.6	24.0	22.4	23.2	22.9	23.7	24.2
	8H	22.7	23.3	23.2	23.8	24.3	22.8	23.5	23.3	24.0	24.4
	12H	23.0	23.6	23.5	24.1	24.6	23.1	23.7	23.6	24.2	24.7
12H	4H	21.5	22.4	22.0	22.8	23.3	21.7	22.5	22.2	23.0	23.5
	6H	22.4	23.1	22.9	23.5	24.1	22.5	23.2	23.0	23.7	24.2
	8H	22.8	23.4	23.3	23.9	24.5	22.9	23.5	23.4	24.0	24.6















(END OF REPORT)