

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: P1527049

Luminaire Tested: 22CGTX-50-F125-L830

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1527049
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-50-F125-L830
Description: CGTX with F125 Lens Option

Light Source:
Ballast/Driver: -

Summary

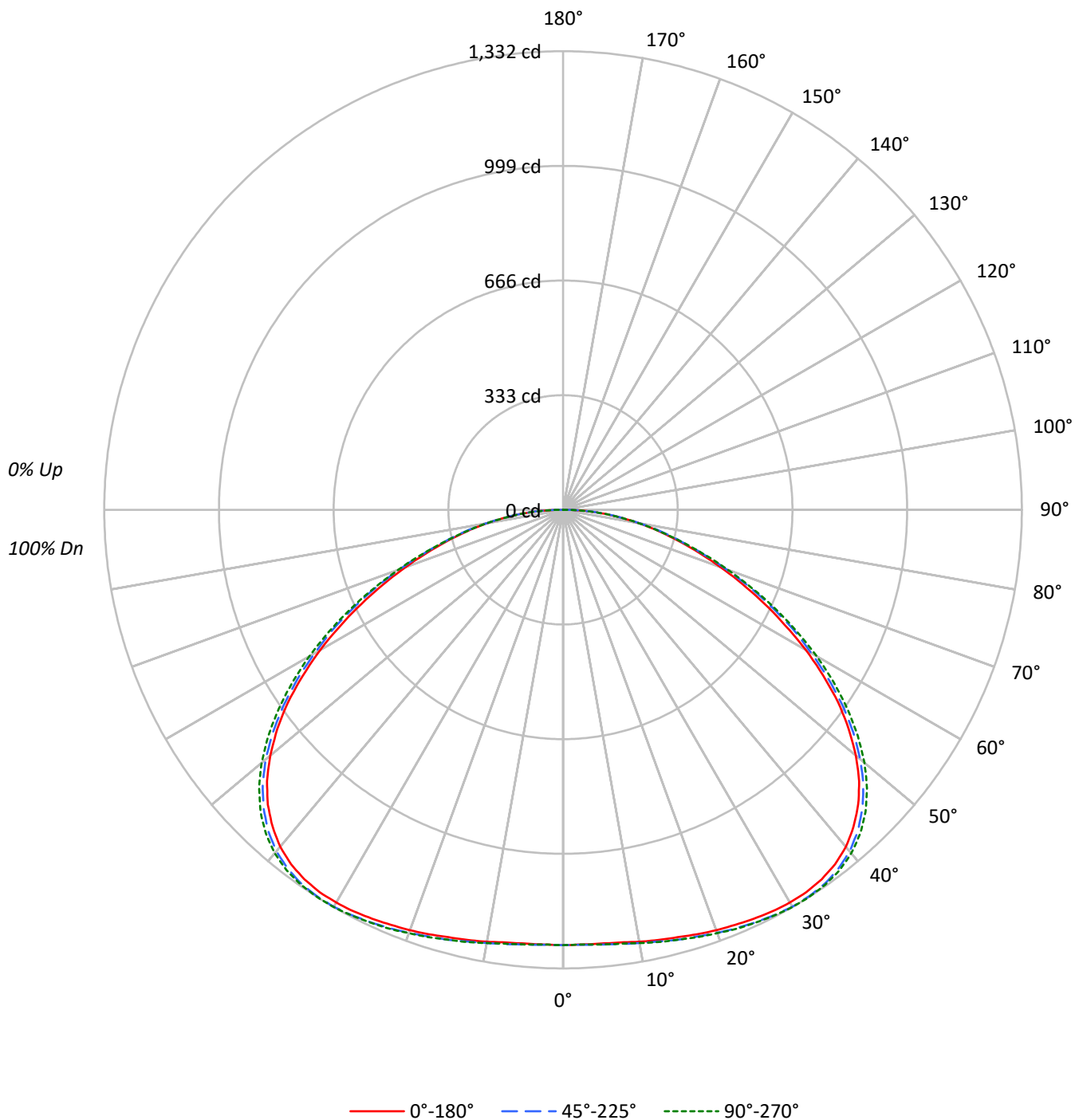
Lumens per Lamp: N/A
Luminaire Lumens: 4908.0 lumens
Efficiency: N/A
Efficacy: 122.7 lumens/watt
Spacing Criteria (0/90/45): 1.56 / 1.58 / 1.65
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1527049

CATALOG NUMBER: 22CGTX-50-F125-L830

Luminous Intensity Polar Plot





TEST NUMBER: P1527049

CATALOG NUMBER: 22CGTX-50-F125-L830

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	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°	3402	3402	3402
5°	3415	3423	3423
10°	3481	3491	3491
15°	3580	3601	3601
20°	3720	3745	3747
25°	3891	3924	3927
30°	4092	4136	4139
35°	4302	4354	4364
40°	4488	4547	4574
45°	4612	4676	4726
50°	4644	4715	4782
55°	4575	4645	4729
60°	4383	4479	4575
65°	4109	4259	4330
70°	3821	3961	4006
75°	3584	3682	3682
80°	3465	3508	3479
85°	3365	3480	3365

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 50°

Luminance: 4782 cd/sqm

TEST NUMBER: P1527049

CATALOG NUMBER: 22CGTX-50-F125-L830

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.3	2.5
10°-20°	366.4	7.5
20°-30°	610.6	12.4
30°-40°	827.3	16.9
40°-50°	943.6	19.2
50°-60°	882.0	18.0
60°-70°	658.7	13.4
70°-80°	376.1	7.7
80°-90°	122.1	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°	1098.3	22.4
0°-40°	1925.6	39.2
0°-60°	3751.2	76.4
0°-90°	4908.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4908.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1264	1264	1264	1264	1264	
5°	1264	1266	1267	1268	1267	121
15°	1285	1289	1293	1294	1293	365
25°	1310	1315	1322	1324	1323	606
35°	1310	1316	1326	1329	1328	819
45°	1212	1217	1229	1237	1242	931
55°	975	978	990	1001	1008	867
65°	645	655	669	673	680	640
75°	345	350	354	355	354	368
85°	109	114	113	111	109	120
90°	0	0	0	0	0	

TEST NUMBER: P1527049

CATALOG NUMBER: 22CGTX-50-F125-L830

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1264.4	1264.4	1264.4	1264.4	1264.4
2.5°	1263.5	1264.4	1264.4	1266.3	1263.5
5°	1264.4	1266.3	1267.2	1268.2	1267.2
7.5°	1267.2	1270.0	1271.9	1272.9	1271.0
10°	1273.8	1275.7	1277.5	1279.4	1277.5
12.5°	1279.4	1282.2	1284.1	1286.9	1286.0
15°	1285.1	1288.8	1292.6	1293.5	1292.6
17.5°	1292.6	1295.4	1299.2	1301.0	1301.0
20°	1299.2	1302.9	1307.6	1309.5	1308.5
22.5°	1304.8	1309.5	1315.1	1317.9	1317.0
25°	1310.4	1315.1	1321.7	1323.6	1322.6
27.5°	1315.1	1320.8	1327.3	1330.2	1328.3
30°	1317.0	1322.6	1331.1	1333.0	1332.0
32.5°	1316.1	1321.7	1330.2	1333.0	1332.0
35°	1309.5	1316.1	1325.5	1329.2	1328.3
37.5°	1297.3	1303.9	1313.2	1317.9	1318.9
40°	1277.5	1284.1	1294.5	1301.0	1302.0
42.5°	1248.4	1255.0	1266.3	1273.8	1276.6
45°	1211.8	1217.4	1228.7	1237.2	1241.9
47.5°	1165.8	1170.5	1182.7	1192.1	1196.8
50°	1109.4	1114.1	1126.3	1135.7	1142.3
52.5°	1045.5	1049.3	1061.5	1072.8	1078.4
55°	975.1	977.9	990.1	1001.4	1007.9
57.5°	895.2	903.7	913.1	923.4	930.9
60°	814.4	821.0	832.3	842.6	850.1
62.5°	728.0	740.2	753.4	759.0	765.6
65°	645.3	654.7	668.8	672.6	680.1
67.5°	563.6	574.0	586.2	589.0	593.7
70°	485.7	494.1	503.5	507.3	509.1
72.5°	412.4	419.0	425.5	428.4	428.4
75°	344.7	350.4	354.1	355.1	354.1
77.5°	283.7	284.6	293.1	287.4	286.5
80°	223.6	223.6	226.4	226.4	224.5
82.5°	165.3	169.1	168.1	167.2	164.4
85°	109.0	113.7	112.7	110.8	109.0
87.5°	53.5	59.2	56.4	59.2	54.5
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1527049

CATALOG NUMBER: 22CGTX-50-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	17.7	19.4	18.1	19.7	20.0	17.9	19.6	18.2	19.9	20.2
	3H	19.4	20.9	19.8	21.3	21.6	19.6	21.1	20.0	21.5	21.8
	4H	20.0	21.5	20.4	21.8	22.2	20.2	21.7	20.6	22.0	22.4
	6H	20.6	21.9	21.0	22.3	22.7	20.7	22.1	21.1	22.5	22.8
	8H	20.7	22.0	21.2	22.4	22.8	20.9	22.2	21.3	22.6	23.0
	12H	20.9	22.1	21.3	22.5	23.0	21.1	22.3	21.5	22.7	23.1
4H	2H	18.3	19.8	18.7	20.1	20.5	18.5	19.9	18.9	20.3	20.7
	3H	20.2	21.5	20.7	21.9	22.3	20.4	21.6	20.8	22.0	22.4
	4H	21.0	22.1	21.5	22.6	23.0	21.2	22.3	21.6	22.7	23.2
	6H	21.7	22.7	22.1	23.1	23.6	21.8	22.8	22.3	23.3	23.7
	8H	21.9	22.9	22.4	23.3	23.8	22.1	23.0	22.5	23.4	23.9
	12H	22.2	23.0	22.6	23.5	23.9	22.3	23.1	22.8	23.6	24.1
8H	4H	21.4	22.3	21.8	22.7	23.2	21.5	22.4	22.0	22.9	23.3
	6H	22.2	22.9	22.7	23.4	23.9	22.3	23.1	22.8	23.5	24.0
	8H	22.5	23.2	23.0	23.7	24.2	22.6	23.3	23.1	23.8	24.3
	12H	22.8	23.4	23.3	23.9	24.5	22.9	23.5	23.4	24.0	24.6
12H	4H	21.4	22.2	21.9	22.7	23.2	21.6	22.4	22.0	22.9	23.3
	6H	22.3	23.0	22.8	23.4	23.9	22.4	23.1	22.9	23.5	24.1
	8H	22.7	23.3	23.2	23.8	24.3	22.8	23.4	23.3	23.9	24.4













(END OF REPORT)