

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: P1527052

Luminaire Tested: 22CGTX-50HE-F125-L850

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1527052
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-L850
Description: CGTX with F125 Lens Option

Light Source:
Ballast/Driver: -

Summary

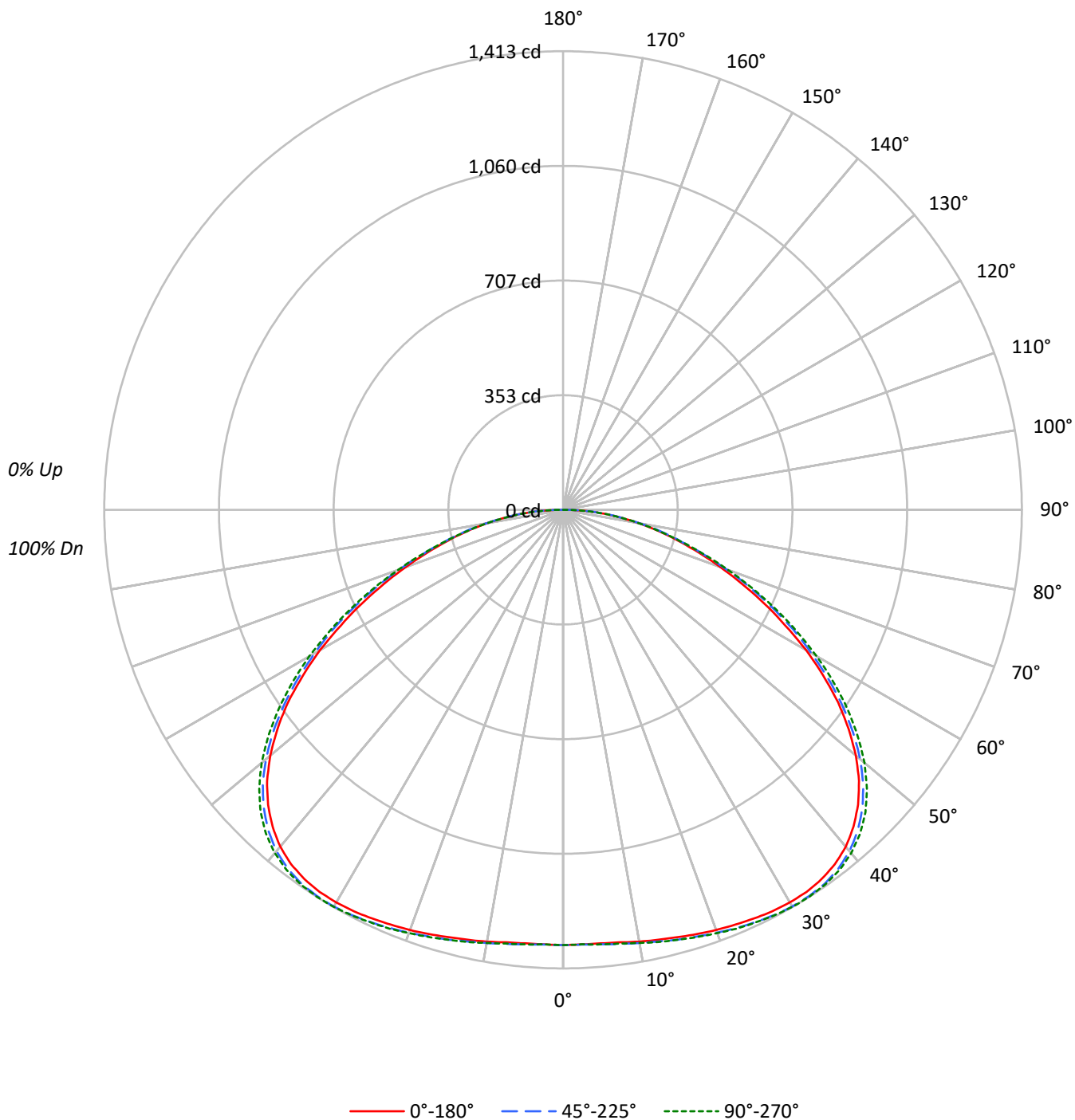
Lumens per Lamp: N/A
Luminaire Lumens: 5205.0 lumens
Efficiency: N/A
Efficacy: 130.1 lumens/watt
Spacing Criteria (0/90/45): 1.56 / 1.58 / 1.65
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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				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°	3608	3608	3608
5°	3622	3630	3630
10°	3691	3702	3702
15°	3797	3819	3819
20°	3946	3971	3974
25°	4126	4162	4165
30°	4340	4386	4389
35°	4562	4618	4628
40°	4760	4822	4851
45°	4891	4959	5012
50°	4925	5001	5071
55°	4852	4926	5015
60°	4648	4750	4852
65°	4358	4516	4593
70°	4052	4201	4249
75°	3801	3905	3905
80°	3674	3721	3690
85°	3569	3690	3569

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 50°

Luminance: 5071 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.6	2.5
10°-20°	388.6	7.5
20°-30°	647.6	12.4
30°-40°	877.4	16.9
40°-50°	1000.6	19.2
50°-60°	935.4	18.0
60°-70°	698.5	13.4
70°-80°	398.8	7.7
80°-90°	129.5	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°	1164.8	22.4
0°-40°	2042.1	39.2
0°-60°	3978.2	76.4
0°-90°	5205.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5205.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1341	1341	1341	1341	1341	
5°	1341	1343	1344	1345	1344	128
15°	1363	1367	1371	1372	1371	387
25°	1390	1395	1402	1404	1403	643
35°	1389	1396	1406	1410	1409	869
45°	1285	1291	1303	1312	1317	988
55°	1034	1037	1050	1062	1069	920
65°	684	694	709	713	721	679
75°	366	372	376	377	376	390
85°	116	120	120	118	116	127
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1340.9	1340.9	1340.9	1340.9	1340.9
2.5°	1339.9	1340.9	1340.9	1342.9	1339.9
5°	1340.9	1342.9	1343.9	1344.9	1343.9
7.5°	1343.9	1346.9	1348.9	1349.9	1347.9
10°	1350.9	1352.9	1354.9	1356.8	1354.9
12.5°	1356.8	1359.8	1361.8	1364.8	1363.8
15°	1362.8	1366.8	1370.8	1371.8	1370.8
17.5°	1370.8	1373.8	1377.8	1379.8	1379.8
20°	1377.8	1381.8	1386.7	1388.7	1387.7
22.5°	1383.7	1388.7	1394.7	1397.7	1396.7
25°	1389.7	1394.7	1401.7	1403.7	1402.7
27.5°	1394.7	1400.7	1407.7	1410.6	1408.7
30°	1396.7	1402.7	1411.6	1413.6	1412.6
32.5°	1395.7	1401.7	1410.6	1413.6	1412.6
35°	1388.7	1395.7	1405.7	1409.6	1408.7
37.5°	1375.8	1382.8	1392.7	1397.7	1398.7
40°	1354.9	1361.8	1372.8	1379.8	1380.8
42.5°	1324.0	1330.9	1342.9	1350.9	1353.9
45°	1285.1	1291.1	1303.1	1312.0	1317.0
47.5°	1236.3	1241.3	1254.2	1264.2	1269.2
50°	1176.5	1181.5	1194.5	1204.4	1211.4
52.5°	1108.8	1112.8	1125.7	1137.7	1143.7
55°	1034.1	1037.1	1050.0	1062.0	1068.9
57.5°	949.4	958.4	968.3	979.3	987.3
60°	863.7	870.7	882.6	893.6	901.6
62.5°	772.1	785.0	799.0	804.9	811.9
65°	684.4	694.4	709.3	713.3	721.3
67.5°	597.7	608.7	621.6	624.6	629.6
70°	515.0	524.0	534.0	538.0	540.0
72.5°	437.3	444.3	451.3	454.3	454.3
75°	365.6	371.6	375.6	376.6	375.6
77.5°	300.9	301.9	310.8	304.8	303.8
80°	237.1	237.1	240.1	240.1	238.1
82.5°	175.3	179.3	178.3	177.3	174.3
85°	115.6	120.5	119.5	117.6	115.6
87.5°	56.8	62.8	59.8	62.8	57.8
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	17.9	19.6	18.3	19.9	20.2	18.1	19.8	18.4	20.1	20.4
	3H	19.6	21.1	20.0	21.5	21.8	19.8	21.3	20.2	21.7	22.0
	4H	20.2	21.7	20.6	22.0	22.4	20.4	21.9	20.8	22.2	22.6
	6H	20.8	22.1	21.2	22.5	22.9	20.9	22.3	21.3	22.7	23.0
	8H	21.0	22.3	21.4	22.6	23.0	21.1	22.4	21.5	22.8	23.2
	12H	21.1	22.4	21.5	22.7	23.2	21.3	22.5	21.7	22.9	23.3
4H	2H	18.5	20.0	18.9	20.3	20.7	18.7	20.1	19.1	20.5	20.9
	3H	20.4	21.7	20.9	22.1	22.5	20.6	21.9	21.0	22.2	22.6
	4H	21.2	22.3	21.7	22.8	23.2	21.4	22.5	21.8	22.9	23.4
	6H	21.9	22.9	22.3	23.3	23.8	22.0	23.0	22.5	23.5	23.9
	8H	22.2	23.1	22.6	23.5	24.0	22.3	23.2	22.7	23.6	24.1
	12H	22.4	23.2	22.8	23.7	24.1	22.5	23.3	23.0	23.8	24.3
8H	4H	21.6	22.5	22.0	22.9	23.4	21.7	22.6	22.2	23.1	23.5
	6H	22.4	23.1	22.9	23.6	24.1	22.5	23.3	23.0	23.8	24.2
	8H	22.7	23.4	23.2	23.9	24.4	22.8	23.5	23.3	24.0	24.5
	12H	23.0	23.6	23.5	24.1	24.7	23.1	23.7	23.6	24.2	24.8
12H	4H	21.6	22.4	22.1	22.9	23.4	21.8	22.6	22.2	23.1	23.5
	6H	22.5	23.2	23.0	23.6	24.2	22.6	23.3	23.1	23.7	24.3
	8H	22.9	23.5	23.4	24.0	24.5	23.0	23.6	23.5	24.1	24.6















(END OF REPORT)