

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: P1526990

Luminaire Tested: 14CGTX-70HE-F125-L830

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1526990
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2507-496-3)
Test Lab: INNOVATION CENTER
Issue Date: 8/24/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CGTX-70HE-F125-L830
Description: CGTX with F125 Lens Option

Light Source:
Ballast/Driver: -

Summary

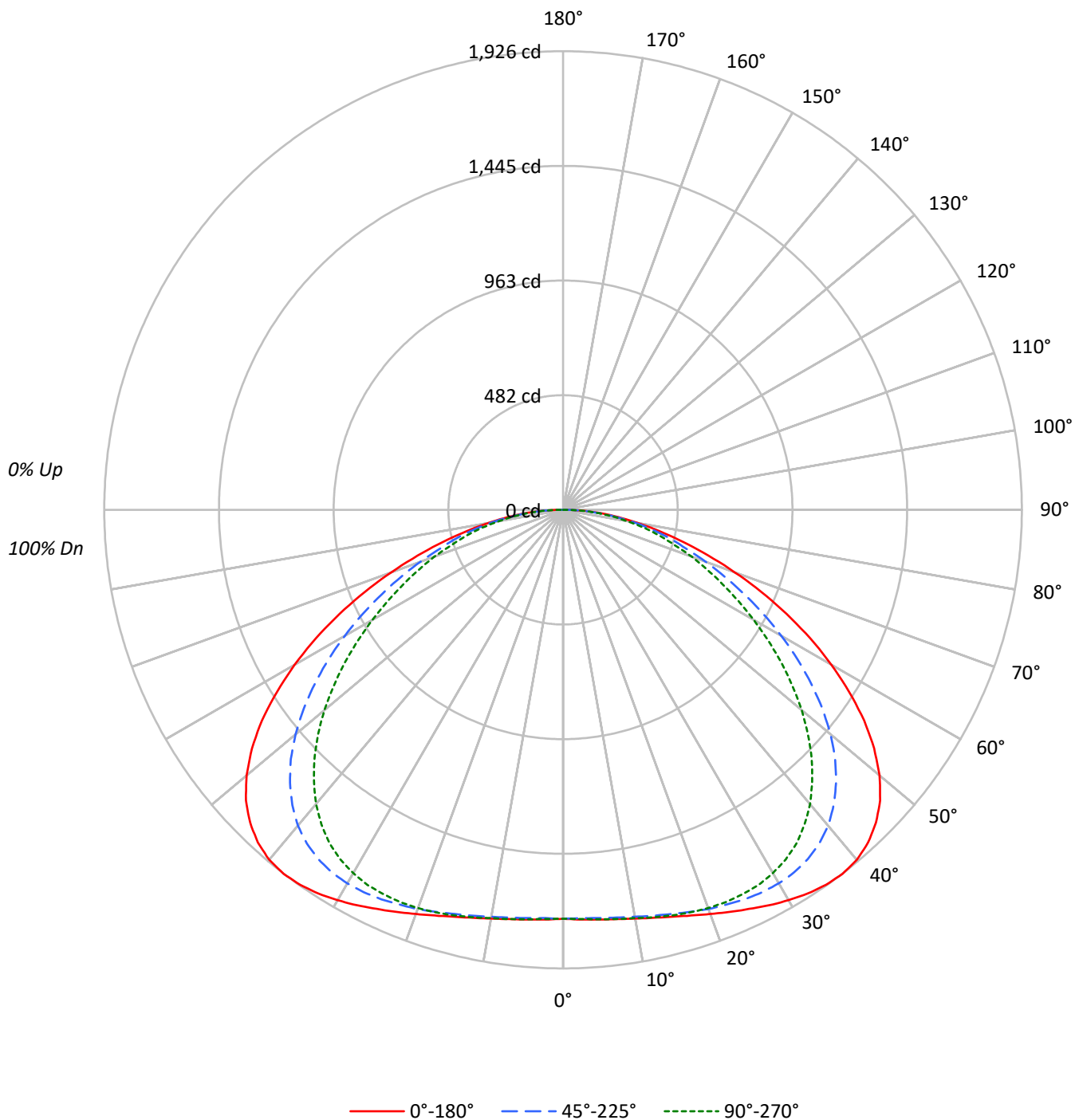
Lumens per Lamp: N/A
Luminaire Lumens: 6580.0 lumens
Efficiency: N/A
Efficacy: 125.3 lumens/watt
Spacing Criteria (0/90/45): 1.68 / 1.5 / 1.61
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 52.5
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	99	94	105	101	97	93	96	93	90		93	90	87		89	87	85	82
2	98	89	82	76	95	87	81	75	84	78	73		80	76	71		77	73	70	68
3	89	78	69	62	86	76	68	62	73	66	61		70	64	59		68	63	58	56
4	81	68	59	52	78	67	58	52	64	57	51		62	56	50		60	54	50	47
5	74	61	51	44	72	59	51	44	57	50	44		55	48	43		53	47	43	40
6	68	54	45	38	66	53	44	38	51	44	38		50	43	37		48	42	37	35
7	63	49	40	33	61	48	39	33	46	39	33		45	38	33		44	37	32	30
8	58	44	36	29	57	44	35	29	42	35	29		41	34	29		40	34	29	27
9	54	41	32	26	53	40	32	26	39	31	26		38	31	26		37	30	26	24
10	51	37	29	24	50	37	29	24	36	28	23		35	28	23		34	28	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4620	4620	4620
5°	4666	4648	4661
10°	4762	4741	4758
15°	4927	4896	4913
20°	5173	5109	5096
25°	5491	5358	5289
30°	5882	5629	5474
35°	6318	5883	5615
40°	6740	6083	5667
45°	7070	6169	5616
50°	7260	6135	5474
55°	7242	5965	5244
60°	7000	5692	4972
65°	6593	5346	4701
70°	6032	5006	4519
75°	5427	4820	4365
80°	4962	4683	4218
85°	4770	4480	4215

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 7275 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.0	2.5
10°-20°	500.3	7.6
20°-30°	837.3	12.7
30°-40°	1128.1	17.1
40°-50°	1265.4	19.2
50°-60°	1161.1	17.6
60°-70°	858.8	13.1
70°-80°	499.6	7.6
80°-90°	164.3	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°	1502.6	22.8
0°-40°	2630.7	40.0
0°-60°	5057.3	76.9
0°-90°	6580.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6580.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1717	1717	1717	1717	1717	
5°	1727	1726	1720	1721	1726	165
15°	1769	1765	1757	1759	1763	503
25°	1849	1836	1805	1785	1781	857
35°	1923	1883	1791	1728	1709	1204
45°	1858	1787	1621	1511	1476	1428
55°	1544	1455	1272	1153	1118	1371
65°	1035	973	840	763	738	1024
75°	522	515	464	427	420	559
85°	154	159	145	147	136	170
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1717.0	1717.0	1717.0	1717.0	1717.0
2.5°	1722.2	1722.2	1716.2	1717.9	1719.6
5°	1727.3	1726.5	1720.5	1721.3	1725.6
7.5°	1733.4	1733.4	1727.3	1727.3	1733.4
10°	1742.8	1741.1	1735.1	1736.8	1741.1
12.5°	1754.8	1751.4	1745.4	1747.1	1752.2
15°	1768.6	1765.1	1757.4	1759.1	1763.4
17.5°	1786.6	1781.4	1770.3	1770.3	1772.8
20°	1806.3	1797.7	1784.0	1777.1	1779.7
22.5°	1827.8	1816.6	1794.3	1782.3	1783.2
25°	1849.3	1835.5	1804.6	1784.9	1781.4
27.5°	1872.4	1852.7	1810.6	1783.2	1776.3
30°	1893.0	1868.1	1811.5	1773.7	1761.7
32.5°	1911.1	1878.4	1805.5	1755.7	1740.2
35°	1923.1	1882.7	1790.9	1728.2	1709.3
37.5°	1926.5	1877.6	1766.8	1690.4	1665.5
40°	1918.8	1861.3	1731.6	1640.6	1613.2
42.5°	1895.6	1832.1	1681.8	1580.5	1547.9
45°	1857.8	1787.4	1620.9	1511.0	1475.8
47.5°	1805.5	1725.6	1549.6	1431.2	1394.2
50°	1734.2	1650.1	1465.5	1344.4	1307.5
52.5°	1645.8	1558.2	1371.9	1252.6	1213.1
55°	1543.6	1455.2	1271.5	1153.0	1117.8
57.5°	1424.3	1342.7	1165.9	1053.4	1019.9
60°	1300.7	1223.4	1057.7	953.8	923.8
62.5°	1170.2	1099.8	948.7	855.1	829.3
65°	1035.4	972.7	839.6	763.2	738.3
67.5°	900.6	852.5	735.8	667.9	654.2
70°	766.7	730.6	636.2	591.5	574.4
72.5°	639.6	620.7	541.7	511.7	488.5
75°	522.0	515.1	463.6	426.7	419.8
77.5°	415.5	425.8	381.2	354.6	348.6
80°	320.2	330.5	302.2	279.9	272.2
82.5°	233.5	247.3	218.9	213.8	206.0
85°	154.5	158.8	145.1	146.8	136.5
87.5°	75.5	84.1	76.4	79.0	73.8
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	19.5	21.2	19.9	21.5	21.8	17.7	19.4	18.1	19.7	20.0
	3H	21.3	22.8	21.6	23.1	23.5	19.4	21.0	19.8	21.3	21.7
	4H	21.9	23.4	22.3	23.7	24.1	20.1	21.6	20.5	21.9	22.3
	6H	22.4	23.7	22.8	24.1	24.5	20.7	22.1	21.1	22.4	22.8
	8H	22.6	23.9	23.0	24.2	24.6	20.9	22.2	21.4	22.6	23.0
	12H	22.7	23.9	23.1	24.3	24.8	21.1	22.3	21.5	22.7	23.2
4H	2H	19.9	21.4	20.3	21.7	22.1	18.5	19.9	18.9	20.3	20.7
	3H	21.9	23.1	22.3	23.5	23.9	20.4	21.6	20.8	22.0	22.4
	4H	22.7	23.8	23.2	24.2	24.7	21.2	22.3	21.7	22.8	23.2
	6H	23.4	24.4	23.8	24.8	25.2	22.0	22.9	22.4	23.4	23.8
	8H	23.6	24.5	24.1	25.0	25.4	22.2	23.1	22.7	23.6	24.0
	12H	23.8	24.6	24.3	25.1	25.6	22.5	23.3	22.9	23.8	24.2
8H	4H	23.0	23.9	23.4	24.3	24.8	21.7	22.6	22.1	23.0	23.5
	6H	23.8	24.5	24.3	25.0	25.5	22.5	23.3	23.0	23.8	24.2
	8H	24.1	24.8	24.6	25.3	25.8	22.9	23.6	23.4	24.1	24.6
	12H	24.4	25.0	24.9	25.5	26.1	23.2	23.8	23.7	24.3	24.9
12H	4H	23.0	23.8	23.5	24.3	24.8	21.7	22.6	22.2	23.0	23.5
	6H	23.8	24.5	24.4	25.0	25.5	22.6	23.3	23.2	23.8	24.3
	8H	24.2	24.8	24.7	25.3	25.9	23.1	23.7	23.6	24.2	24.7















(END OF REPORT)