

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: P1526993

Luminaire Tested: 14CGTX-70HE-F125-L850

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1526993
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-L850
Description: CGTX with F125 Lens Option

Light Source:
Ballast/Driver: -

Summary

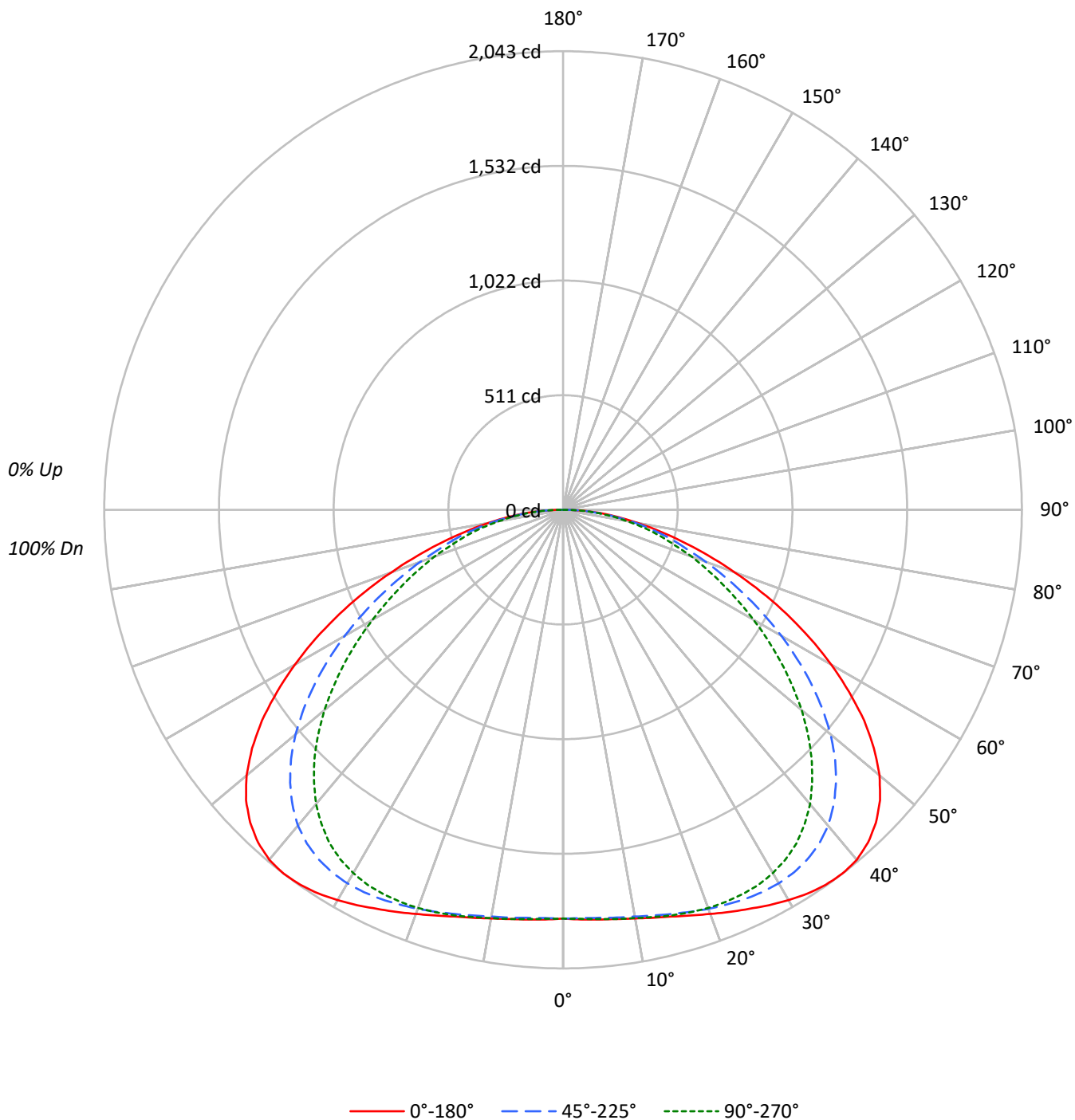
Lumens per Lamp: N/A
Luminaire Lumens: 6978.0 lumens
Efficiency: N/A
Efficacy: 132.9 lumens/watt
Spacing Criteria (0/90/45): 1.68 / 1.5 / 1.61
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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				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°	4900	4900	4900
5°	4948	4928	4943
10°	5050	5028	5045
15°	5225	5192	5210
20°	5486	5418	5405
25°	5823	5682	5609
30°	6238	5969	5805
35°	6700	6239	5955
40°	7148	6451	6009
45°	7498	6541	5956
50°	7699	6506	5805
55°	7680	6326	5561
60°	7423	6037	5272
65°	6991	5670	4986
70°	6397	5308	4792
75°	5756	5111	4629
80°	5263	4967	4472
85°	5060	4752	4471

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 7715 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.0	2.5
10°-20°	530.6	7.6
20°-30°	887.9	12.7
30°-40°	1196.4	17.1
40°-50°	1342.0	19.2
50°-60°	1231.4	17.6
60°-70°	910.8	13.1
70°-80°	529.8	7.6
80°-90°	174.2	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°	1593.5	22.8
0°-40°	2789.9	40.0
0°-60°	5363.2	76.9
0°-90°	6978.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6978.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1821	1821	1821	1821	1821	
5°	1832	1831	1824	1826	1830	175
15°	1876	1872	1864	1866	1870	533
25°	1961	1946	1914	1893	1889	909
35°	2039	1997	1899	1833	1813	1277
45°	1970	1896	1719	1602	1565	1514
55°	1637	1543	1348	1223	1185	1454
65°	1098	1032	890	809	783	1086
75°	554	546	492	452	445	593
85°	164	168	154	156	145	180
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1820.9	1820.9	1820.9	1820.9	1820.9
2.5°	1826.4	1826.4	1820.0	1821.8	1823.6
5°	1831.8	1830.9	1824.5	1825.5	1830.0
7.5°	1838.2	1838.2	1831.8	1831.8	1838.2
10°	1848.2	1846.4	1840.0	1841.8	1846.4
12.5°	1861.0	1857.3	1850.9	1852.8	1858.2
15°	1875.5	1871.9	1863.7	1865.5	1870.1
17.5°	1894.6	1889.2	1877.4	1877.4	1880.1
20°	1915.6	1906.5	1891.9	1884.6	1887.4
22.5°	1938.4	1926.5	1902.8	1890.1	1891.0
25°	1961.1	1946.5	1913.8	1892.8	1889.2
27.5°	1985.7	1964.8	1920.1	1891.0	1883.7
30°	2007.5	1981.1	1921.1	1881.0	1868.2
32.5°	2026.7	1992.1	1914.7	1861.9	1845.5
35°	2039.4	1996.6	1899.2	1832.7	1812.7
37.5°	2043.1	1991.2	1873.7	1792.7	1766.3
40°	2034.9	1973.9	1836.4	1739.9	1710.7
42.5°	2010.3	1942.9	1783.6	1676.1	1641.5
45°	1970.2	1895.6	1718.9	1602.4	1565.1
47.5°	1914.7	1830.0	1643.4	1517.7	1478.6
50°	1839.1	1749.9	1554.1	1425.8	1386.6
52.5°	1745.3	1652.5	1454.9	1328.3	1286.5
55°	1637.0	1543.2	1348.4	1222.7	1185.4
57.5°	1510.4	1423.9	1236.4	1117.1	1081.6
60°	1379.3	1297.4	1121.7	1011.5	979.6
62.5°	1240.9	1166.3	1006.0	906.8	879.5
65°	1098.0	1031.5	890.4	809.4	783.0
67.5°	955.1	904.1	780.3	708.3	693.8
70°	813.0	774.8	674.6	627.3	609.1
72.5°	678.3	658.3	574.5	542.6	518.0
75°	553.6	546.3	491.6	452.5	445.2
77.5°	440.7	451.6	404.2	376.0	369.6
80°	339.6	350.5	320.5	296.8	288.6
82.5°	247.6	262.2	232.2	226.7	218.5
85°	163.9	168.4	153.9	155.7	144.8
87.5°	80.1	89.2	81.0	83.8	78.3
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	19.7	21.4	20.1	21.7	22.1	17.9	19.6	18.3	19.9	20.2
	3H	21.5	23.0	21.8	23.3	23.7	19.6	21.2	20.0	21.5	21.9
	4H	22.1	23.6	22.5	23.9	24.3	20.3	21.8	20.7	22.1	22.5
	6H	22.6	24.0	23.0	24.3	24.7	20.9	22.3	21.3	22.6	23.0
	8H	22.8	24.1	23.2	24.5	24.9	21.1	22.4	21.6	22.8	23.2
	12H	22.9	24.1	23.3	24.5	25.0	21.3	22.5	21.7	22.9	23.4
4H	2H	20.1	21.6	20.5	21.9	22.3	18.7	20.1	19.1	20.5	20.9
	3H	22.1	23.4	22.5	23.7	24.1	20.6	21.8	21.0	22.2	22.6
	4H	22.9	24.0	23.4	24.4	24.9	21.4	22.6	21.9	23.0	23.4
	6H	23.6	24.6	24.0	25.0	25.5	22.2	23.1	22.6	23.6	24.0
	8H	23.8	24.7	24.3	25.2	25.6	22.4	23.3	22.9	23.8	24.2
	12H	24.0	24.8	24.5	25.3	25.8	22.7	23.5	23.1	24.0	24.4
8H	4H	23.2	24.1	23.6	24.5	25.0	21.9	22.8	22.3	23.2	23.7
	6H	24.0	24.7	24.5	25.2	25.7	22.7	23.5	23.2	24.0	24.4
	8H	24.3	25.0	24.8	25.5	26.0	23.1	23.8	23.6	24.3	24.8
	12H	24.6	25.2	25.1	25.7	26.3	23.4	24.0	23.9	24.5	25.1
12H	4H	23.2	24.0	23.7	24.5	25.0	21.9	22.8	22.4	23.2	23.7
	6H	24.0	24.7	24.6	25.2	25.7	22.8	23.5	23.4	24.0	24.5
	8H	24.4	25.0	24.9	25.5	26.1	23.3	23.9	23.8	24.4	24.9















(END OF REPORT)