

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: P1527171

Luminaire Tested: 24CGTX-90HE-F125-L935

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1527171
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2507-496-1)
Test Lab: INNOVATION CENTER
Issue Date: 8/24/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 24CGTX-90HE-F125-L935
Description: CGTX with F125 Lens Option

Light Source:
Ballast/Driver: -

Summary

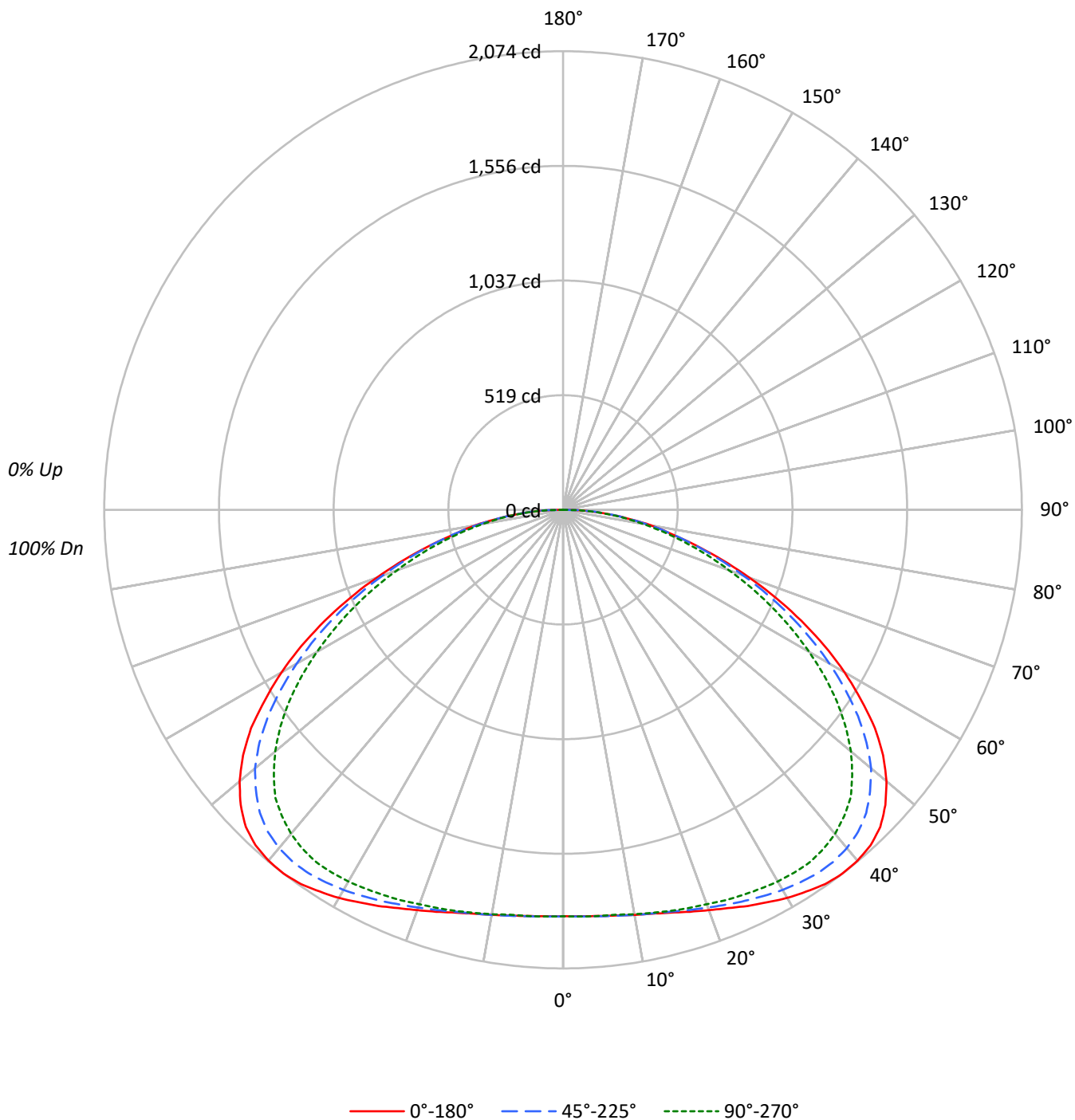
Lumens per Lamp: N/A
Luminaire Lumens: 7773.0 lumens
Efficiency: N/A
Efficacy: 110.6 lumens/watt
Spacing Criteria (0/90/45): 1.69 / 1.6 / 1.72
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 70.3
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: P1527171

CATALOG NUMBER: 24CGTX-90HE-F125-L935

Luminous Intensity Polar Plot



TEST NUMBER: P1527171

CATALOG NUMBER: 24CGTX-90HE-F125-L935

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	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	102	98	94	105	100	96	92	96	92	89	92	89	86	88	86	84	82			
2	97	88	81	74	94	86	79	74	83	77	72	79	74	70	76	72	69	66			
3	88	76	68	61	85	75	67	60	72	65	59	69	63	58	66	61	57	54			
4	80	67	57	50	77	66	57	50	63	55	49	61	54	48	58	53	48	45			
5	73	59	50	43	71	58	49	42	56	48	42	54	47	41	52	46	41	39			
6	67	53	43	36	65	52	43	36	50	42	36	48	41	36	47	40	35	33			
7	62	47	38	32	60	47	38	32	45	37	31	44	36	31	42	36	31	29			
8	57	43	34	28	56	42	34	28	41	33	28	40	33	27	38	32	27	25			
9	53	39	31	25	52	39	30	25	37	30	25	36	29	24	35	29	24	22			
10	50	36	28	22	48	35	27	22	34	27	22	33	27	22	33	26	22	20			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2473	2473	2473
5°	2490	2492	2490
10°	2541	2541	2537
15°	2627	2621	2615
20°	2758	2741	2717
25°	2934	2896	2854
30°	3149	3083	3016
35°	3393	3295	3195
40°	3638	3507	3359
45°	3859	3688	3500
50°	3995	3805	3555
55°	4039	3819	3545
60°	3954	3743	3454
65°	3785	3604	3319
70°	3525	3408	3141
75°	3227	3206	2974
80°	3130	3067	2847
85°	2908	3035	2847

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 55°

Luminance: 4039 cd/sqm

TEST NUMBER: P1527171

CATALOG NUMBER: 24CGTX-90HE-F125-L935

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.5	2.3
10°-20°	534.7	6.9
20°-30°	903.1	11.6
30°-40°	1256.3	16.2
40°-50°	1487.2	19.1
50°-60°	1442.8	18.6
60°-70°	1111.7	14.3
70°-80°	648.6	8.3
80°-90°	212.0	2.7
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°	1614.4	20.8
0°-40°	2870.7	36.9
0°-60°	5800.7	74.6
0°-90°	7773.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7773.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1838	1838	1838	1838	1838	
5°	1844	1845	1845	1845	1844	176
15°	1886	1886	1882	1877	1877	536
25°	1976	1968	1951	1930	1922	916
35°	2066	2048	2006	1964	1945	1294
45°	2028	2001	1938	1872	1840	1557
55°	1722	1692	1628	1552	1511	1528
65°	1189	1175	1132	1074	1042	1174
75°	621	636	617	588	572	665
85°	188	198	197	192	184	211
90°	0	0	0	0	0	

TEST NUMBER: P1527171

CATALOG NUMBER: 24CGTX-90HE-F125-L935

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1838.1	1838.1	1838.1	1838.1	1838.1
2.5°	1839.5	1840.8	1840.8	1840.8	1840.8
5°	1843.6	1844.9	1844.9	1844.9	1843.6
7.5°	1850.3	1850.3	1851.7	1850.3	1846.3
10°	1859.8	1859.8	1859.8	1858.5	1857.1
12.5°	1870.7	1872.0	1869.3	1868.0	1866.6
15°	1885.6	1885.6	1881.5	1877.4	1877.4
17.5°	1905.9	1903.2	1897.8	1891.0	1888.3
20°	1926.2	1923.5	1914.0	1903.2	1897.8
22.5°	1949.3	1943.9	1931.7	1916.8	1911.3
25°	1976.4	1968.3	1950.6	1930.3	1922.2
27.5°	2000.8	1990.0	1968.3	1945.2	1931.7
30°	2026.6	2013.0	1984.5	1954.7	1941.2
32.5°	2046.9	2033.3	1996.7	1962.8	1945.2
35°	2065.9	2048.2	2006.2	1964.2	1945.2
37.5°	2074.0	2055.0	2006.2	1957.4	1933.0
40°	2071.3	2051.0	1996.7	1941.2	1912.7
42.5°	2057.7	2033.3	1975.0	1912.7	1880.2
45°	2027.9	2000.8	1938.4	1872.0	1839.5
47.5°	1976.4	1949.3	1882.9	1812.4	1773.1
50°	1908.6	1880.2	1817.8	1739.2	1698.5
52.5°	1823.2	1794.8	1729.7	1649.7	1610.4
55°	1721.6	1691.7	1628.0	1552.1	1511.4
57.5°	1596.8	1575.2	1512.8	1441.0	1401.6
60°	1469.4	1447.7	1390.8	1323.0	1283.7
62.5°	1332.5	1314.9	1263.4	1199.7	1165.8
65°	1188.8	1175.3	1131.9	1073.6	1042.4
67.5°	1042.4	1037.0	997.7	947.5	920.4
70°	896.0	898.7	866.2	821.5	798.4
72.5°	753.7	763.2	737.4	700.8	684.6
75°	620.8	635.8	616.8	588.3	572.0
77.5°	497.5	517.8	501.6	479.9	466.3
80°	404.0	402.6	395.8	379.6	367.4
82.5°	290.1	295.5	291.4	282.0	275.2
85°	188.4	197.9	196.6	192.5	184.4
87.5°	93.5	104.4	105.7	103.0	99.0
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1527171

CATALOG NUMBER: 24CGTX-90HE-F125-L935

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	17.5	19.3	17.9	19.6	19.9	16.9	18.6	17.2	18.9	19.2
	3H	19.4	20.9	19.7	21.3	21.6	18.7	20.2	19.0	20.6	20.9
	4H	20.0	21.5	20.4	21.9	22.2	19.3	20.8	19.7	21.2	21.6
	6H	20.6	21.9	21.0	22.3	22.7	19.9	21.3	20.3	21.6	22.0
	8H	20.7	22.1	21.2	22.5	22.9	20.1	21.4	20.5	21.8	22.2
	12H	20.9	22.2	21.3	22.5	23.0	20.3	21.5	20.7	21.9	22.4
4H	2H	18.1	19.6	18.5	20.0	20.3	17.6	19.1	18.0	19.4	19.8
	3H	20.2	21.4	20.6	21.8	22.2	19.6	20.9	20.0	21.3	21.7
	4H	21.0	22.1	21.4	22.6	23.0	20.4	21.6	20.9	22.0	22.4
	6H	21.7	22.7	22.1	23.1	23.6	21.1	22.1	21.6	22.6	23.0
	8H	21.9	22.9	22.4	23.3	23.8	21.4	22.3	21.8	22.8	23.2
	12H	22.1	23.0	22.6	23.5	23.9	21.6	22.5	22.1	22.9	23.4
8H	4H	21.3	22.3	21.8	22.7	23.2	20.8	21.8	21.3	22.2	22.7
	6H	22.1	22.9	22.6	23.4	23.9	21.7	22.4	22.1	22.9	23.4
	8H	22.5	23.2	23.0	23.7	24.2	22.0	22.7	22.5	23.2	23.7
	12H	22.8	23.4	23.3	23.9	24.5	22.3	23.0	22.8	23.4	24.0
12H	4H	21.4	22.2	21.8	22.7	23.2	20.9	21.7	21.4	22.2	22.7
	6H	22.2	22.9	22.7	23.4	23.9	21.8	22.5	22.3	22.9	23.5
	8H	22.6	23.2	23.1	23.7	24.3	22.2	22.8	22.7	23.3	23.8













(END OF REPORT)