

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: P1526949

Luminaire Tested: 24CGTX-90HE-A125-L830

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1526949
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2507-496-4)
Test Lab: INNOVATION CENTER
Issue Date: 8/24/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 24CGTX-90HE-A125-L830
Description: CGTX with A125 Lens Option

Light Source:
Ballast/Driver: -

Summary

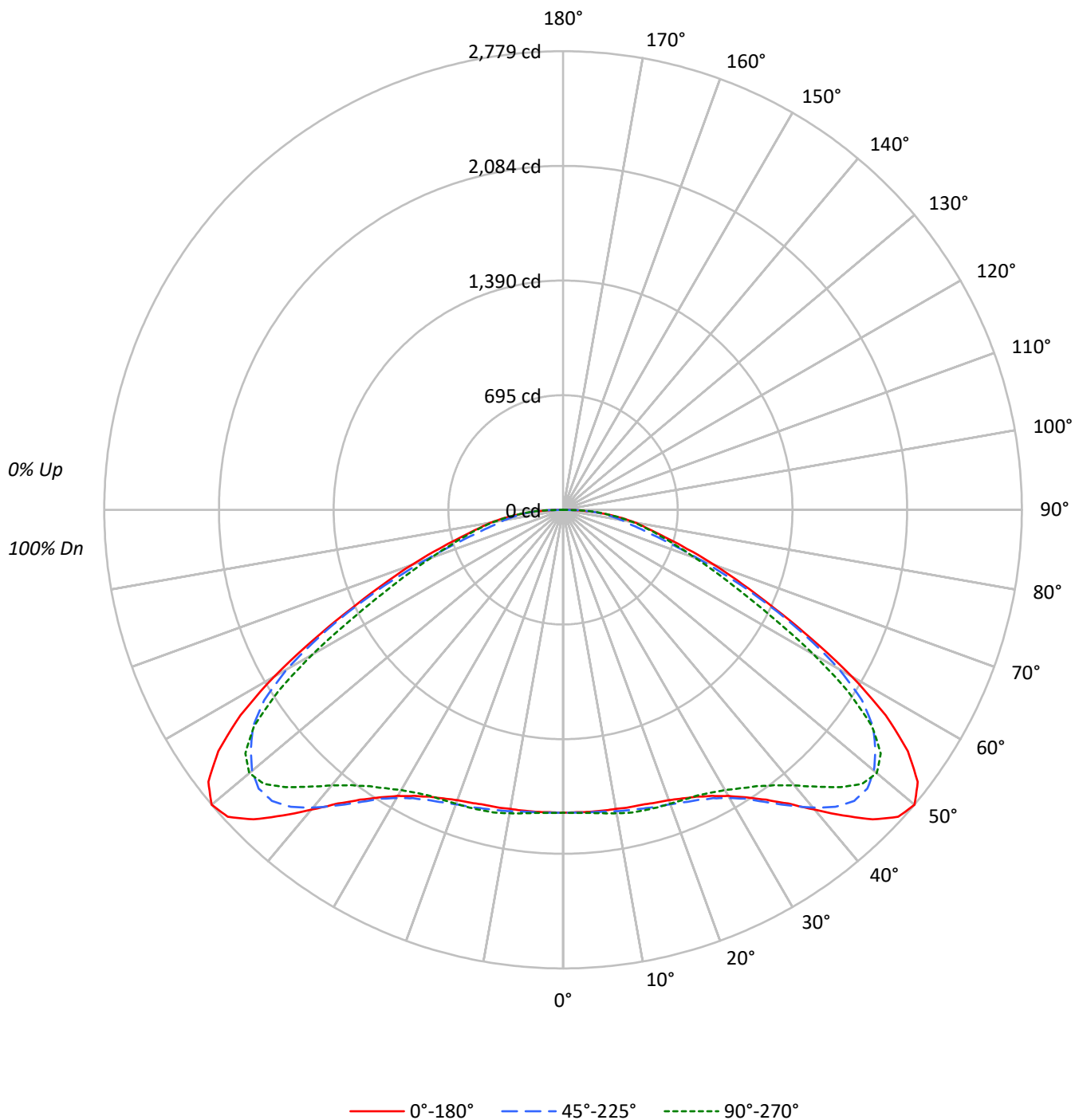
Lumens per Lamp: N/A
Luminaire Lumens: 9161.7 lumens
Efficiency: N/A
Efficacy: 130.3 lumens/watt
Spacing Criteria (0/90/45): 2.04 / 1.82 / 1.97
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

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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	102	98	94	105	100	96	92	96	92	89		92	89	86		88	86	84		82
2	97	88	80	74	94	86	79	73	82	76	71		79	74	70		76	72	68		66
3	87	76	67	60	85	74	66	59	71	64	58		68	62	57		66	60	56		54
4	79	66	56	49	77	65	56	49	62	54	48		60	53	47		57	51	47		44
5	72	58	48	41	70	57	48	41	55	46	40		53	45	40		51	44	39		37
6	66	51	42	35	64	50	41	35	49	40	34		47	39	34		45	39	34		31
7	61	46	36	30	59	45	36	30	43	35	29		42	35	29		41	34	29		27
8	56	41	32	26	54	41	32	26	39	31	26		38	31	25		37	30	25		23
9	52	38	29	23	50	37	29	23	36	28	23		35	28	22		34	27	22		20
10	48	34	26	20	47	34	26	20	33	25	20		32	25	20		31	24	20		18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2469	2469	2469
5°	2481	2485	2490
10°	2514	2534	2551
15°	2576	2610	2627
20°	2680	2719	2714
25°	2847	2880	2838
30°	3110	3132	3046
35°	3523	3554	3358
40°	4165	4137	3828
45°	5047	4745	4522
50°	5817	5147	5193
55°	5980	5377	5358
60°	5434	5195	4717
65°	4495	4414	3848
70°	3838	3457	3345
75°	3323	2754	3166
80°	3442	2790	3331
85°	3478	3355	3697

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 5985 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.1	1.9
10°-20°	531.2	5.8
20°-30°	897.3	9.8
30°-40°	1350.7	14.7
40°-50°	1920.7	21.0
50°-60°	2061.3	22.5
60°-70°	1343.3	14.7
70°-80°	645.9	7.1
80°-90°	235.1	2.6
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°	1604.6	17.5
0°-40°	2955.4	32.3
0°-60°	6937.4	75.7
0°-90°	9161.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9161.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1835	1835	1835	1835	1835	
5°	1837	1838	1840	1846	1843	175
15°	1850	1859	1873	1884	1886	526
25°	1918	1935	1940	1923	1912	893
35°	2145	2186	2164	2091	2045	1361
45°	2652	2587	2494	2429	2376	2036
55°	2549	2484	2292	2226	2284	2230
65°	1412	1401	1386	1237	1209	1429
75°	639	604	530	603	609	702
85°	225	211	217	224	240	245
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1835.3	1835.3	1835.3	1835.3	1835.3
2.5°	1833.7	1835.3	1836.9	1838.5	1838.5
5°	1836.9	1838.5	1840.1	1846.4	1843.3
7.5°	1838.5	1840.1	1844.8	1854.4	1854.4
10°	1840.1	1844.8	1854.4	1863.9	1867.1
12.5°	1846.4	1851.2	1863.9	1876.6	1879.7
15°	1849.6	1859.1	1873.4	1884.5	1886.1
17.5°	1860.7	1870.2	1886.1	1890.8	1890.8
20°	1871.8	1884.5	1898.8	1898.8	1895.6
22.5°	1892.4	1906.7	1917.8	1908.3	1902.0
25°	1917.8	1935.3	1940.0	1922.6	1911.5
27.5°	1954.3	1976.5	1970.2	1946.4	1932.1
30°	2001.9	2030.4	2016.2	1981.3	1960.6
32.5°	2065.3	2100.2	2076.4	2032.0	2000.3
35°	2144.7	2185.9	2163.7	2090.7	2044.7
37.5°	2243.0	2285.8	2258.9	2165.3	2103.4
40°	2371.5	2393.7	2355.6	2254.1	2179.6
42.5°	2511.1	2500.0	2441.3	2347.7	2274.7
45°	2652.3	2587.2	2493.6	2428.6	2376.3
47.5°	2753.8	2633.2	2500.0	2466.7	2457.2
50°	2779.2	2623.7	2458.7	2446.0	2480.9
52.5°	2707.8	2573.0	2384.2	2362.0	2425.4
55°	2549.2	2484.1	2292.2	2225.6	2284.2
57.5°	2316.0	2311.2	2146.2	2027.3	2043.1
60°	2019.3	2038.4	1930.5	1762.4	1752.8
62.5°	1698.9	1710.0	1662.4	1487.9	1454.6
65°	1411.8	1400.7	1386.4	1237.3	1208.7
67.5°	1175.4	1142.1	1119.9	1029.5	1015.2
70°	975.6	923.2	878.8	864.5	850.2
72.5°	790.0	751.9	680.5	720.2	718.6
75°	639.3	604.4	529.8	602.8	609.1
77.5°	523.5	499.7	428.3	494.9	515.5
80°	444.2	395.0	360.1	402.9	429.9
82.5°	339.5	301.4	293.5	310.9	336.3
85°	225.3	211.0	217.3	223.7	239.5
87.5°	114.2	122.1	131.7	142.8	150.7
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	21.3	19.9	21.6	21.9	18.6	20.4	19.0	20.7	21.0
	3H	20.6	22.3	21.0	22.6	22.9	19.8	21.4	20.1	21.7	22.1
	4H	21.0	22.6	21.4	22.9	23.3	20.2	21.7	20.6	22.1	22.5
	6H	21.4	22.8	21.8	23.2	23.6	20.7	22.1	21.1	22.4	22.8
	8H	21.5	22.9	22.0	23.3	23.7	20.9	22.2	21.3	22.6	23.0
	12H	21.7	23.0	22.1	23.4	23.8	21.0	22.3	21.5	22.7	23.1
4H	2H	19.9	21.5	20.3	21.8	22.2	19.2	20.7	19.6	21.1	21.4
	3H	21.2	22.5	21.6	22.9	23.3	20.5	21.8	20.9	22.2	22.6
	4H	21.7	22.9	22.2	23.3	23.7	21.1	22.2	21.5	22.7	23.1
	6H	22.2	23.2	22.7	23.7	24.1	21.7	22.7	22.1	23.1	23.6
	8H	22.4	23.4	22.9	23.8	24.3	21.9	22.9	22.4	23.3	23.8
	12H	22.6	23.5	23.1	24.0	24.4	22.2	23.0	22.7	23.5	24.0
8H	4H	21.9	22.8	22.3	23.3	23.7	21.3	22.3	21.8	22.7	23.2
	6H	22.5	23.3	23.0	23.8	24.2	22.0	22.8	22.5	23.3	23.8
	8H	22.8	23.5	23.3	24.0	24.5	22.4	23.1	22.9	23.6	24.1
	12H	23.1	23.7	23.6	24.2	24.8	22.7	23.4	23.2	23.8	24.4
12H	4H	21.9	22.8	22.4	23.3	23.7	21.3	22.2	21.8	22.7	23.1
	6H	22.6	23.3	23.1	23.7	24.3	22.1	22.8	22.6	23.3	23.8
	8H	22.9	23.5	23.4	24.0	24.6	22.5	23.1	23.0	23.6	24.2













(END OF REPORT)