

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: P1526951

Luminaire Tested: 24CGTX-90HE-A125-L840

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1526951
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-L840
Description: CGTX with A125 Lens Option

Light Source:
Ballast/Driver: -

Summary

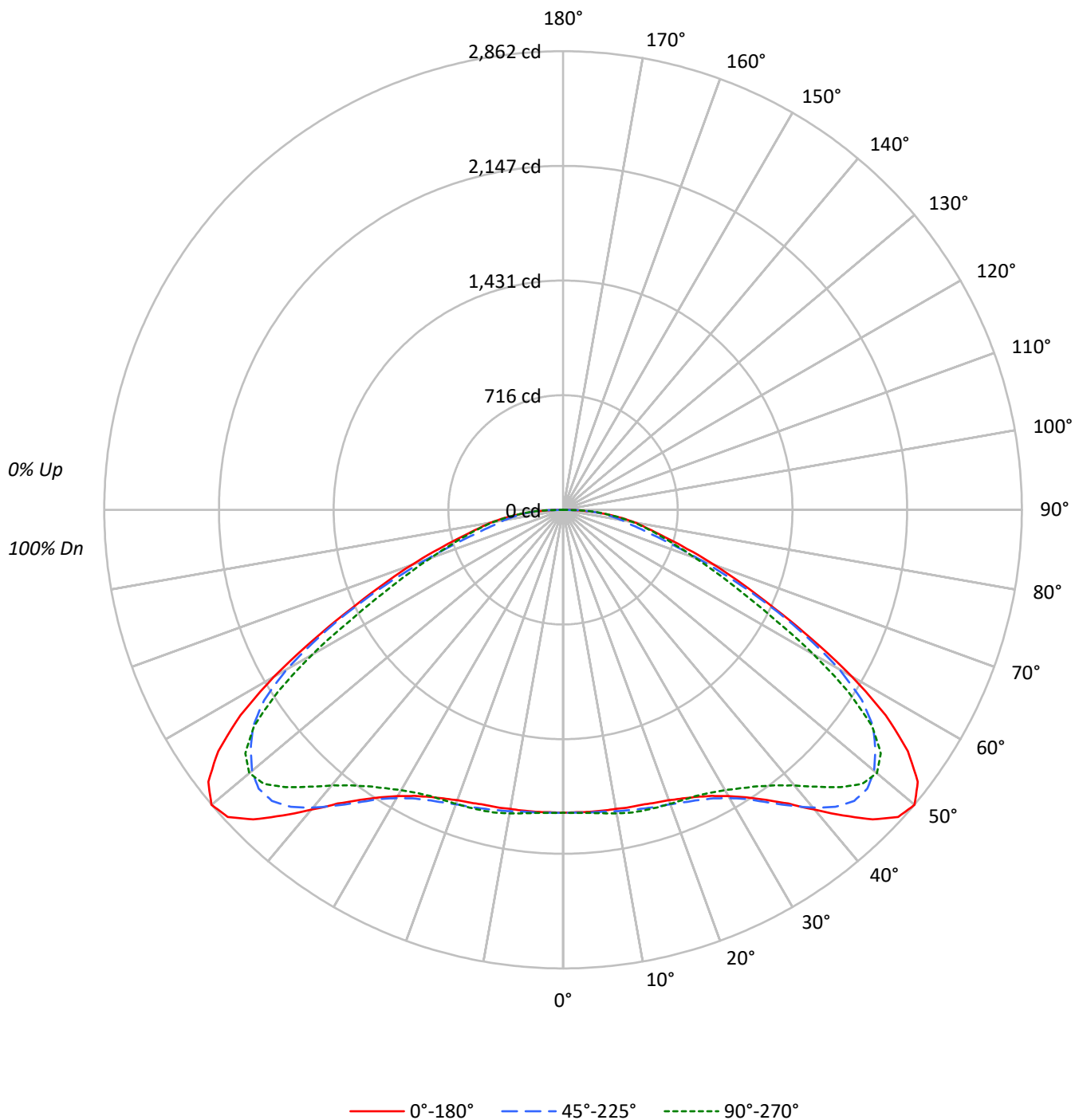
Lumens per Lamp: N/A
Luminaire Lumens: 9436.5 lumens
Efficiency: N/A
Efficacy: 134.2 lumens/watt
Spacing Criteria (0/90/45): 2.04 / 1.82 / 1.97
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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							
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	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°	2544	2544	2544
5°	2555	2560	2564
10°	2589	2610	2627
15°	2654	2688	2706
20°	2761	2800	2796
25°	2933	2966	2923
30°	3203	3226	3138
35°	3628	3661	3459
40°	4290	4262	3943
45°	5198	4887	4657
50°	5992	5301	5349
55°	6159	5538	5519
60°	5597	5351	4858
65°	4629	4546	3964
70°	3953	3561	3445
75°	3423	2837	3262
80°	3545	2874	3431
85°	3582	3455	3808

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 6164 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.4	1.9
10°-20°	547.1	5.8
20°-30°	924.2	9.8
30°-40°	1391.3	14.7
40°-50°	1978.3	21.0
50°-60°	2123.1	22.5
60°-70°	1383.6	14.7
70°-80°	665.3	7.1
80°-90°	242.1	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°	1652.8	17.5
0°-40°	3044.0	32.3
0°-60°	7145.5	75.7
0°-90°	9436.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9436.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1890	1890	1890	1890	1890	
5°	1892	1894	1895	1902	1899	181
15°	1905	1915	1930	1941	1943	542
25°	1975	1993	1998	1980	1969	920
35°	2209	2252	2229	2153	2106	1402
45°	2732	2665	2568	2502	2448	2097
55°	2626	2559	2361	2292	2353	2297
65°	1454	1443	1428	1274	1245	1471
75°	658	622	546	621	627	723
85°	232	217	224	230	247	253
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1890.4	1890.4	1890.4	1890.4	1890.4
2.5°	1888.8	1890.4	1892.0	1893.7	1893.7
5°	1892.0	1893.7	1895.3	1901.8	1898.6
7.5°	1893.7	1895.3	1900.2	1910.0	1910.0
10°	1895.3	1900.2	1910.0	1919.8	1923.1
12.5°	1901.8	1906.7	1919.8	1932.9	1936.1
15°	1905.1	1914.9	1929.6	1941.0	1942.7
17.5°	1916.5	1926.3	1942.7	1947.6	1947.6
20°	1928.0	1941.0	1955.7	1955.7	1952.5
22.5°	1949.2	1963.9	1975.4	1965.5	1959.0
25°	1975.4	1993.3	1998.2	1980.3	1968.8
27.5°	2012.9	2035.8	2029.3	2004.8	1990.1
30°	2061.9	2091.4	2076.7	2040.7	2019.5
32.5°	2127.3	2163.2	2138.7	2093.0	2060.3
35°	2209.0	2251.5	2228.6	2153.4	2106.1
37.5°	2310.3	2354.4	2326.6	2230.2	2166.5
40°	2442.6	2465.5	2426.3	2321.7	2244.9
42.5°	2586.4	2575.0	2514.5	2418.1	2343.0
45°	2731.8	2664.8	2568.4	2501.5	2447.5
47.5°	2836.4	2712.2	2575.0	2540.7	2530.9
50°	2862.5	2702.4	2532.5	2519.4	2555.4
52.5°	2789.0	2650.1	2455.7	2432.8	2498.2
55°	2625.6	2558.6	2360.9	2292.3	2352.8
57.5°	2385.5	2380.6	2210.6	2088.1	2104.4
60°	2079.9	2099.5	1988.4	1815.2	1805.4
62.5°	1749.9	1761.3	1712.3	1532.6	1498.3
65°	1454.1	1442.7	1428.0	1274.4	1245.0
67.5°	1210.7	1176.4	1153.5	1060.4	1045.7
70°	1004.8	950.9	905.2	890.5	875.8
72.5°	813.7	774.5	700.9	741.8	740.1
75°	658.5	622.5	545.7	620.9	627.4
77.5°	539.2	514.7	441.1	509.8	531.0
80°	457.5	406.8	370.9	415.0	442.8
82.5°	349.6	310.4	302.3	320.2	346.4
85°	232.0	217.3	223.8	230.4	246.7
87.5°	117.6	125.8	135.6	147.0	155.2
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	19.6	21.4	20.0	21.7	22.0	18.7	20.5	19.1	20.8	21.1
	3H	20.7	22.4	21.1	22.7	23.0	19.9	21.5	20.2	21.8	22.2
	4H	21.1	22.7	21.5	23.0	23.4	20.3	21.9	20.7	22.2	22.6
	6H	21.5	22.9	21.9	23.3	23.7	20.8	22.2	21.2	22.5	22.9
	8H	21.7	23.0	22.1	23.4	23.8	21.0	22.3	21.4	22.7	23.1
	12H	21.8	23.1	22.2	23.5	23.9	21.1	22.4	21.6	22.8	23.3
4H	2H	20.0	21.6	20.4	21.9	22.3	19.3	20.8	19.7	21.2	21.5
	3H	21.3	22.6	21.7	23.0	23.4	20.6	21.9	21.0	22.3	22.7
	4H	21.8	23.0	22.3	23.4	23.8	21.2	22.4	21.6	22.8	23.2
	6H	22.3	23.3	22.8	23.8	24.2	21.8	22.8	22.2	23.2	23.7
	8H	22.5	23.5	23.0	23.9	24.4	22.0	23.0	22.5	23.4	23.9
	12H	22.7	23.6	23.2	24.1	24.5	22.3	23.1	22.8	23.6	24.1
8H	4H	22.0	22.9	22.5	23.4	23.9	21.4	22.4	21.9	22.8	23.3
	6H	22.6	23.4	23.1	23.9	24.4	22.1	22.9	22.6	23.4	23.9
	8H	22.9	23.6	23.4	24.1	24.6	22.5	23.2	23.0	23.7	24.2
	12H	23.2	23.8	23.7	24.3	24.9	22.8	23.5	23.3	23.9	24.5
12H	4H	22.0	22.9	22.5	23.4	23.8	21.4	22.3	21.9	22.8	23.2
	6H	22.7	23.4	23.2	23.8	24.4	22.2	22.9	22.7	23.4	23.9
	8H	23.0	23.6	23.5	24.1	24.7	22.6	23.2	23.1	23.7	24.3















(END OF REPORT)