

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: P1526955

Luminaire Tested: 24CGTX-90HE-A125-L940

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1526955
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-L940
Description: CGTX with A125 Lens Option

Light Source:
Ballast/Driver: -

Summary

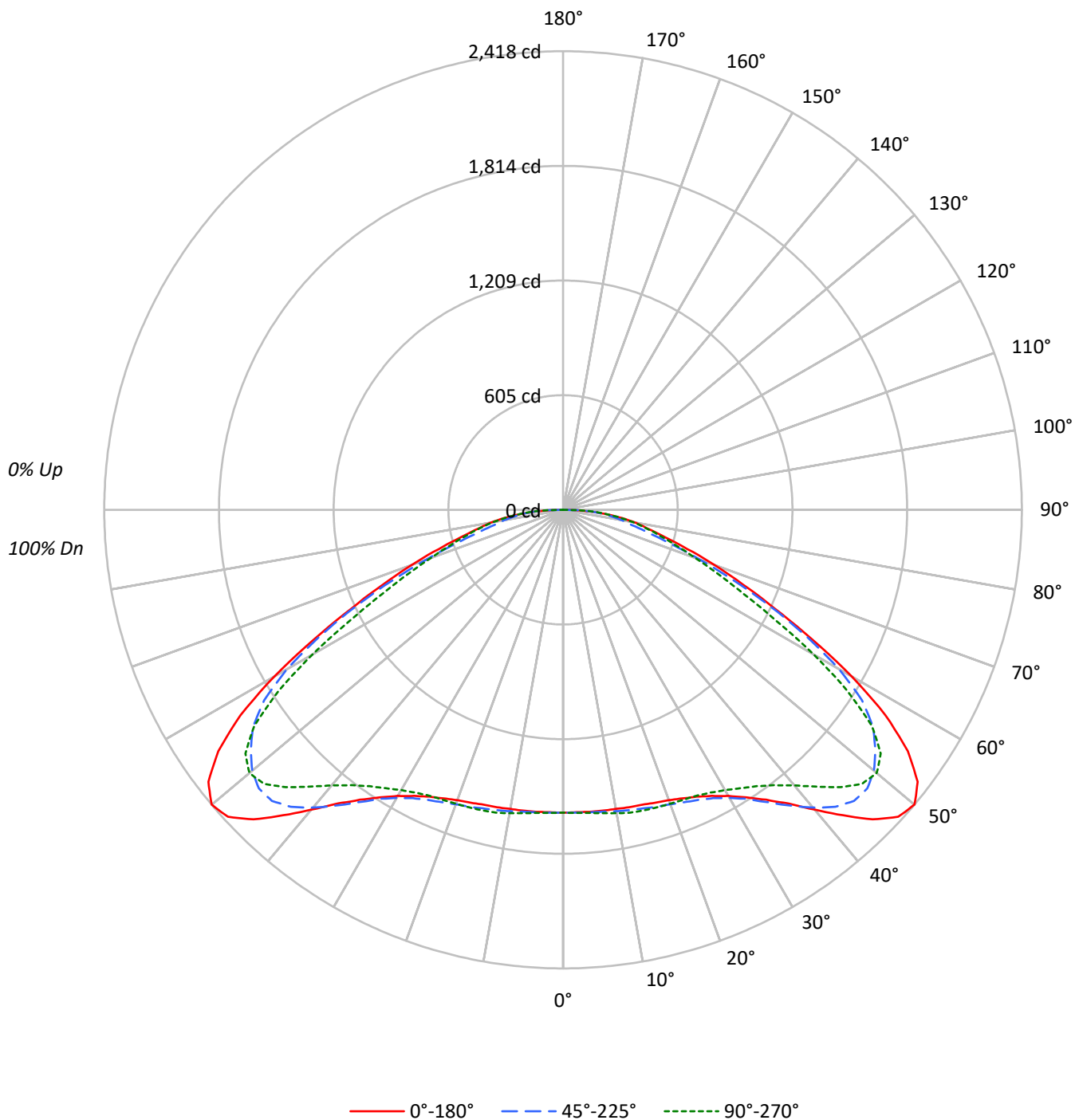
Lumens per Lamp: N/A
Luminaire Lumens: 7970.7 lumens
Efficiency: N/A
Efficacy: 113.4 lumens/watt
Spacing Criteria (0/90/45): 2.04 / 1.82 / 1.97
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1526955

CATALOG NUMBER: 24CGTX-90HE-A125-L940

Luminous Intensity Polar Plot



TEST NUMBER: P1526955

CATALOG NUMBER: 24CGTX-90HE-A125-L940

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	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°	2148	2148	2148
5°	2158	2162	2166
10°	2187	2204	2219
15°	2242	2270	2286
20°	2332	2365	2361
25°	2477	2506	2469
30°	2706	2725	2650
35°	3065	3092	2922
40°	3624	3600	3331
45°	4391	4128	3934
50°	5061	4478	4518
55°	5202	4678	4662
60°	4728	4519	4104
65°	3911	3840	3348
70°	3339	3008	2910
75°	2891	2396	2755
80°	2994	2428	2898
85°	3026	2919	3217

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 52.5°
Luminance: 5207 cd/sqm

TEST NUMBER: P1526955

CATALOG NUMBER: 24CGTX-90HE-A125-L940

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.2	1.9
10°-20°	462.1	5.8
20°-30°	780.6	9.8
30°-40°	1175.1	14.7
40°-50°	1671.0	21.0
50°-60°	1793.3	22.5
60°-70°	1168.7	14.7
70°-80°	561.9	7.1
80°-90°	204.5	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°	1396.0	17.5
0°-40°	2571.2	32.3
0°-60°	6035.5	75.7
0°-90°	7970.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7970.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1597	1597	1597	1597	1597	
5°	1598	1600	1601	1606	1604	153
15°	1609	1617	1630	1640	1641	457
25°	1668	1684	1688	1673	1663	777
35°	1866	1902	1882	1819	1779	1184
45°	2308	2251	2170	2113	2067	1771
55°	2218	2161	1994	1936	1987	1940
65°	1228	1219	1206	1076	1052	1243
75°	556	526	461	524	530	611
85°	196	184	189	195	208	213
90°	0	0	0	0	0	

TEST NUMBER: P1526955

CATALOG NUMBER: 24CGTX-90HE-A125-L940

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1596.7	1596.7	1596.7	1596.7	1596.7
2.5°	1595.4	1596.7	1598.1	1599.5	1599.5
5°	1598.1	1599.5	1600.9	1606.4	1603.6
7.5°	1599.5	1600.9	1605.0	1613.3	1613.3
10°	1600.9	1605.0	1613.3	1621.6	1624.3
12.5°	1606.4	1610.5	1621.6	1632.6	1635.4
15°	1609.2	1617.4	1629.9	1639.5	1640.9
17.5°	1618.8	1627.1	1640.9	1645.0	1645.0
20°	1628.5	1639.5	1651.9	1651.9	1649.2
22.5°	1646.4	1658.8	1668.5	1660.2	1654.7
25°	1668.5	1683.7	1687.8	1672.6	1663.0
27.5°	1700.2	1719.6	1714.0	1693.3	1680.9
30°	1741.6	1766.5	1754.1	1723.7	1705.8
32.5°	1796.8	1827.2	1806.5	1767.9	1740.3
35°	1865.8	1901.7	1882.4	1818.9	1778.9
37.5°	1951.4	1988.7	1965.2	1883.8	1830.0
40°	2063.2	2082.5	2049.4	1961.1	1896.2
42.5°	2184.6	2175.0	2123.9	2042.5	1979.0
45°	2307.5	2250.9	2169.5	2112.9	2067.3
47.5°	2395.8	2290.9	2175.0	2146.0	2137.7
50°	2417.9	2282.6	2139.1	2128.1	2158.4
52.5°	2355.8	2238.5	2074.2	2054.9	2110.1
55°	2217.8	2161.2	1994.2	1936.2	1987.3
57.5°	2014.9	2010.8	1867.2	1763.7	1777.5
60°	1756.8	1773.4	1679.5	1533.3	1525.0
62.5°	1478.1	1487.7	1446.3	1294.5	1265.5
65°	1228.3	1218.6	1206.2	1076.5	1051.6
67.5°	1022.6	993.6	974.3	895.7	883.2
70°	848.7	803.2	764.6	752.1	739.7
72.5°	687.3	654.2	592.0	626.6	625.2
75°	556.2	525.8	460.9	524.4	529.9
77.5°	455.4	434.7	372.6	430.6	448.5
80°	386.4	343.6	313.3	350.5	374.0
82.5°	295.3	262.2	255.3	270.5	292.6
85°	196.0	183.5	189.1	194.6	208.4
87.5°	99.4	106.3	114.5	124.2	131.1
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1526955

CATALOG NUMBER: 24CGTX-90HE-A125-L940

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	19.1	20.8	19.4	21.1	21.5	18.1	19.9	18.5	20.2	20.6
	3H	20.2	21.8	20.5	22.1	22.5	19.3	20.9	19.7	21.2	21.6
	4H	20.5	22.1	20.9	22.4	22.8	19.7	21.3	20.1	21.6	22.0
	6H	20.9	22.3	21.3	22.7	23.1	20.2	21.6	20.6	22.0	22.3
	8H	21.1	22.4	21.5	22.8	23.2	20.4	21.7	20.8	22.1	22.5
	12H	21.2	22.5	21.6	22.9	23.3	20.6	21.9	21.0	22.2	22.7
4H	2H	19.5	21.0	19.9	21.3	21.7	18.7	20.2	19.1	20.6	20.9
	3H	20.7	22.0	21.2	22.4	22.8	20.0	21.3	20.4	21.7	22.1
	4H	21.2	22.4	21.7	22.8	23.2	20.6	21.8	21.0	22.2	22.6
	6H	21.7	22.8	22.2	23.2	23.6	21.2	22.2	21.6	22.6	23.1
	8H	22.0	22.9	22.4	23.4	23.8	21.4	22.4	21.9	22.8	23.3
	12H	22.2	23.0	22.6	23.5	24.0	21.7	22.6	22.2	23.0	23.5
8H	4H	21.4	22.4	21.9	22.8	23.3	20.8	21.8	21.3	22.2	22.7
	6H	22.0	22.8	22.5	23.3	23.8	21.5	22.3	22.0	22.8	23.3
	8H	22.3	23.0	22.8	23.5	24.0	21.9	22.6	22.4	23.1	23.6
	12H	22.6	23.2	23.1	23.7	24.3	22.2	22.9	22.7	23.4	23.9
12H	4H	21.4	22.3	21.9	22.8	23.2	20.9	21.7	21.3	22.2	22.7
	6H	22.1	22.8	22.6	23.2	23.8	21.6	22.3	22.1	22.8	23.3
	8H	22.4	23.1	22.9	23.5	24.1	22.0	22.6	22.5	23.1	23.7













(END OF REPORT)