

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: P1526938

Luminaire Tested: 24CGTX-72HE-A125-L850

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1526938
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-72HE-A125-L850
Description: CGTX with A125 Lens Option

Light Source:
Ballast/Driver: -

Summary

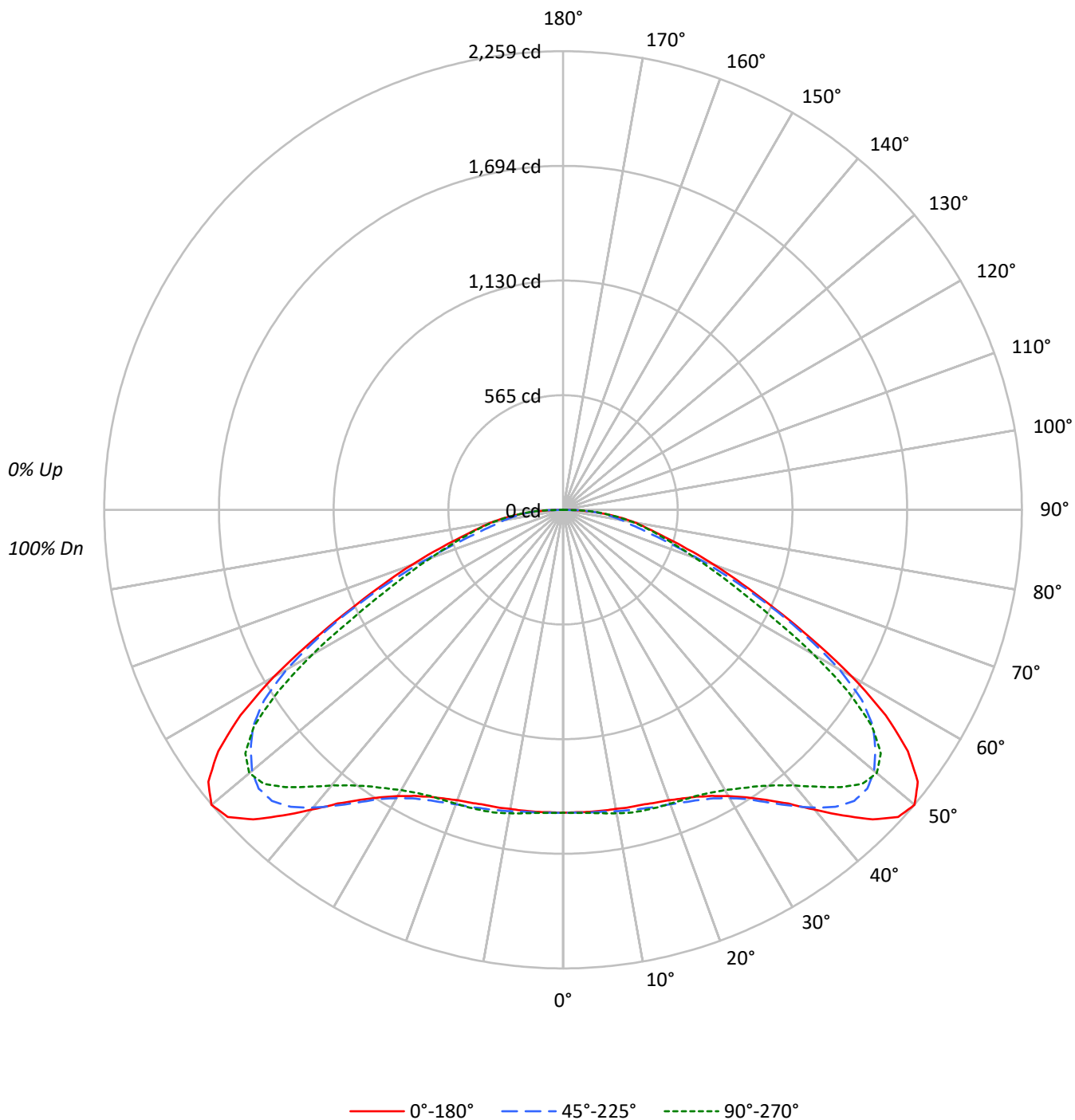
Lumens per Lamp: N/A
Luminaire Lumens: 7448.1 lumens
Efficiency: N/A
Efficacy: 139.0 lumens/watt
Spacing Criteria (0/90/45): 2.04 / 1.82 / 1.97
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 53.6
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: P1526938

CATALOG NUMBER: 24CGTX-72HE-A125-L850

Luminous Intensity Polar Plot



TEST NUMBER: P1526938

CATALOG NUMBER: 24CGTX-72HE-A125-L850

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
RC	80				70				50				30				10			
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°	2008	2008	2008
5°	2017	2020	2024
10°	2044	2060	2074
15°	2095	2121	2136
20°	2179	2210	2207
25°	2315	2341	2307
30°	2529	2547	2476
35°	2864	2889	2730
40°	3386	3364	3112
45°	4103	3857	3676
50°	4729	4184	4222
55°	4861	4371	4356
60°	4418	4223	3835
65°	3654	3588	3129
70°	3120	2810	2719
75°	2702	2239	2574
80°	2798	2268	2708
85°	2827	2728	3006

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 4865 cd/sqm

TEST NUMBER: P1526938

CATALOG NUMBER: 24CGTX-72HE-A125-L850

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.2	1.9
10°-20°	431.8	5.8
20°-30°	729.5	9.8
30°-40°	1098.1	14.7
40°-50°	1561.5	21.0
50°-60°	1675.8	22.5
60°-70°	1092.1	14.7
70°-80°	525.1	7.1
80°-90°	191.1	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°	1304.5	17.5
0°-40°	2402.6	32.3
0°-60°	5639.8	75.7
0°-90°	7448.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7448.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1492	1492	1492	1492	1492	
5°	1493	1495	1496	1501	1498	143
15°	1504	1511	1523	1532	1533	427
25°	1559	1573	1577	1563	1554	726
35°	1744	1777	1759	1700	1662	1107
45°	2156	2103	2027	1974	1932	1655
55°	2072	2020	1864	1809	1857	1813
65°	1148	1139	1127	1006	983	1161
75°	520	491	431	490	495	571
85°	183	172	177	182	195	199
90°	0	0	0	0	0	

TEST NUMBER: P1526938

CATALOG NUMBER: 24CGTX-72HE-A125-L850

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1492.1	1492.1	1492.1	1492.1	1492.1
2.5°	1490.8	1492.1	1493.3	1494.6	1494.6
5°	1493.3	1494.6	1495.9	1501.1	1498.5
7.5°	1494.6	1495.9	1499.8	1507.5	1507.5
10°	1495.9	1499.8	1507.5	1515.3	1517.8
12.5°	1501.1	1504.9	1515.3	1525.6	1528.2
15°	1503.7	1511.4	1523.0	1532.0	1533.3
17.5°	1512.7	1520.4	1533.3	1537.2	1537.2
20°	1521.7	1532.0	1543.6	1543.6	1541.1
22.5°	1538.5	1550.1	1559.1	1551.4	1546.2
25°	1559.1	1573.3	1577.2	1563.0	1554.0
27.5°	1588.8	1606.8	1601.7	1582.3	1570.7
30°	1627.5	1650.7	1639.1	1610.7	1593.9
32.5°	1679.0	1707.4	1688.1	1652.0	1626.2
35°	1743.5	1777.1	1759.0	1699.7	1662.3
37.5°	1823.5	1858.3	1836.4	1760.3	1710.0
40°	1927.9	1946.0	1915.0	1832.5	1771.9
42.5°	2041.4	2032.4	1984.7	1908.6	1849.3
45°	2156.2	2103.3	2027.2	1974.4	1931.8
47.5°	2238.7	2140.7	2032.4	2005.3	1997.6
50°	2259.4	2133.0	1998.9	1988.5	2016.9
52.5°	2201.3	2091.7	1938.2	1920.2	1971.8
55°	2072.4	2019.5	1863.5	1809.3	1857.0
57.5°	1882.8	1878.9	1744.8	1648.1	1661.0
60°	1641.6	1657.1	1569.4	1432.7	1425.0
62.5°	1381.1	1390.2	1351.5	1209.6	1182.6
65°	1147.7	1138.7	1127.1	1005.9	982.7
67.5°	955.6	928.5	910.4	836.9	825.3
70°	793.1	750.5	714.4	702.8	691.2
72.5°	642.2	611.3	553.2	585.5	584.2
75°	519.7	491.3	430.7	490.0	495.2
77.5°	425.6	406.2	348.2	402.4	419.1
80°	361.1	321.1	292.7	327.6	349.5
82.5°	276.0	245.0	238.6	252.8	273.4
85°	183.1	171.5	176.7	181.8	194.7
87.5°	92.9	99.3	107.0	116.1	122.5
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1526938

CATALOG NUMBER: 24CGTX-72HE-A125-L850

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	18.8	20.6	19.2	20.9	21.2	17.9	19.7	18.3	20.0	20.3
	3H	19.9	21.5	20.3	21.9	22.2	19.0	20.7	19.4	21.0	21.3
	4H	20.3	21.8	20.7	22.2	22.6	19.5	21.0	19.9	21.4	21.7
	6H	20.7	22.1	21.1	22.4	22.8	19.9	21.4	20.4	21.7	22.1
	8H	20.8	22.2	21.3	22.6	23.0	20.1	21.5	20.6	21.9	22.3
	12H	21.0	22.3	21.4	22.6	23.1	20.3	21.6	20.7	22.0	22.4
4H	2H	19.2	20.8	19.6	21.1	21.5	18.5	20.0	18.9	20.3	20.7
	3H	20.5	21.8	20.9	22.2	22.6	19.8	21.1	20.2	21.5	21.9
	4H	21.0	22.2	21.4	22.6	23.0	20.4	21.5	20.8	21.9	22.4
	6H	21.5	22.5	22.0	23.0	23.4	20.9	22.0	21.4	22.4	22.9
	8H	21.7	22.7	22.2	23.1	23.6	21.2	22.2	21.7	22.6	23.1
	12H	21.9	22.8	22.4	23.3	23.7	21.5	22.3	21.9	22.8	23.3
8H	4H	21.2	22.1	21.6	22.6	23.0	20.6	21.5	21.0	22.0	22.4
	6H	21.8	22.6	22.3	23.1	23.5	21.3	22.1	21.8	22.6	23.0
	8H	22.1	22.8	22.6	23.3	23.8	21.6	22.4	22.1	22.9	23.3
	12H	22.4	23.0	22.9	23.5	24.0	22.0	22.6	22.5	23.1	23.7
12H	4H	21.2	22.1	21.7	22.5	23.0	20.6	21.5	21.1	22.0	22.4
	6H	21.8	22.6	22.3	23.0	23.5	21.4	22.1	21.9	22.5	23.1
	8H	22.2	22.8	22.7	23.3	23.9	21.8	22.4	22.3	22.9	23.4













(END OF REPORT)