

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: P1526942

Luminaire Tested: 24CGTX-80HE-A125-L830

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1526942
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-80HE-A125-L830
Description: CGTX with A125 Lens Option

Light Source:
Ballast/Driver: -

Summary

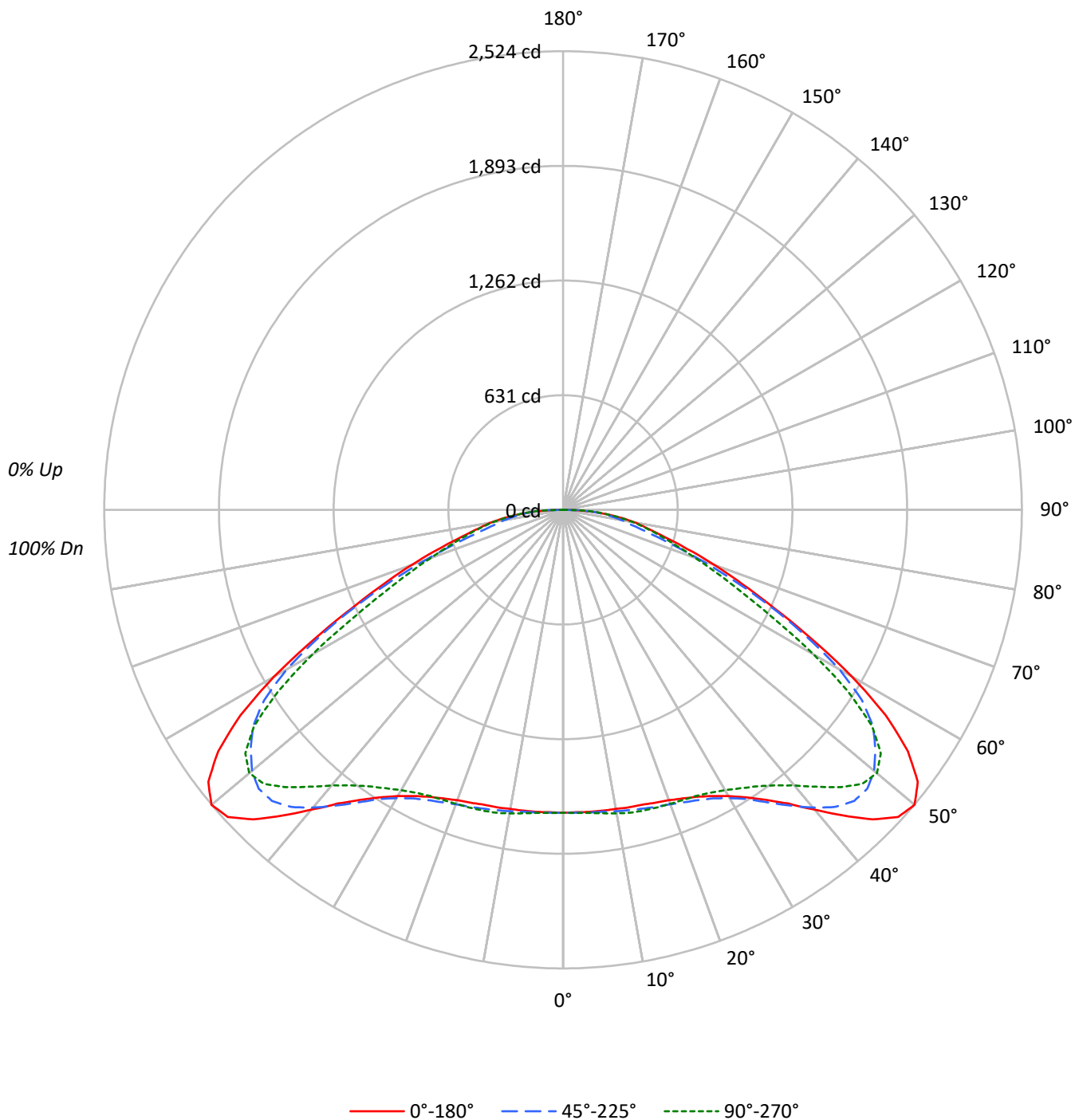
Lumens per Lamp: N/A
Luminaire Lumens: 8322.2 lumens
Efficiency: N/A
Efficacy: 131.1 lumens/watt
Spacing Criteria (0/90/45): 2.04 / 1.82 / 1.97
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 63.5
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: P1526942

CATALOG NUMBER: 24CGTX-80HE-A125-L830

Luminous Intensity Polar Plot





TEST NUMBER: P1526942

CATALOG NUMBER: 24CGTX-80HE-A125-L830

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°	2243	2243	2243
5°	2254	2258	2261
10°	2284	2301	2317
15°	2340	2370	2386
20°	2435	2470	2465
25°	2586	2616	2578
30°	2825	2845	2767
35°	3200	3228	3051
40°	3784	3758	3477
45°	4584	4310	4107
50°	5284	4675	4717
55°	5432	4884	4867
60°	4936	4719	4285
65°	4083	4010	3496
70°	3486	3140	3038
75°	3019	2502	2876
80°	3126	2534	3026
85°	3159	3047	3359

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 5436 cd/sqm

TEST NUMBER: P1526942

CATALOG NUMBER: 24CGTX-80HE-A125-L830

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.0	1.9
10°-20°	482.5	5.8
20°-30°	815.1	9.8
30°-40°	1227.0	14.7
40°-50°	1744.7	21.0
50°-60°	1872.4	22.5
60°-70°	1220.3	14.7
70°-80°	586.7	7.1
80°-90°	213.5	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°	1457.6	17.5
0°-40°	2684.5	32.3
0°-60°	6301.6	75.7
0°-90°	8322.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8322.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1667	1667	1667	1667	1667	
5°	1669	1670	1672	1677	1674	159
15°	1680	1689	1702	1712	1713	478
25°	1742	1758	1762	1746	1736	811
35°	1948	1986	1965	1899	1857	1237
45°	2409	2350	2265	2206	2158	1850
55°	2316	2256	2082	2022	2075	2026
65°	1282	1272	1259	1124	1098	1298
75°	581	549	481	548	553	638
85°	205	192	197	203	218	223
90°	0	0	0	0	0	



TEST NUMBER: P1526942

CATALOG NUMBER: 24CGTX-80HE-A125-L830

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1667.1	1667.1	1667.1	1667.1	1667.1
2.5°	1665.7	1667.1	1668.6	1670.0	1670.0
5°	1668.6	1670.0	1671.5	1677.2	1674.3
7.5°	1670.0	1671.5	1675.8	1684.4	1684.4
10°	1671.5	1675.8	1684.4	1693.1	1696.0
12.5°	1677.2	1681.5	1693.1	1704.6	1707.5
15°	1680.1	1688.7	1701.7	1711.8	1713.2
17.5°	1690.2	1698.8	1713.2	1717.6	1717.6
20°	1700.3	1711.8	1724.8	1724.8	1721.9
22.5°	1719.0	1732.0	1742.1	1733.4	1727.7
25°	1742.1	1757.9	1762.2	1746.4	1736.3
27.5°	1775.2	1795.4	1789.6	1768.0	1755.0
30°	1818.4	1844.4	1831.4	1799.7	1781.0
32.5°	1876.1	1907.8	1886.2	1845.8	1817.0
35°	1948.1	1985.6	1965.4	1899.1	1857.3
37.5°	2037.4	2076.4	2051.9	1966.8	1910.6
40°	2154.2	2174.3	2139.8	2047.5	1979.8
42.5°	2281.0	2270.9	2217.6	2132.5	2066.3
45°	2409.2	2350.1	2265.1	2206.0	2158.5
47.5°	2501.4	2391.9	2270.9	2240.6	2232.0
50°	2524.5	2383.3	2233.4	2221.9	2253.6
52.5°	2459.6	2337.2	2165.7	2145.5	2203.2
55°	2315.5	2256.5	2082.1	2021.6	2074.9
57.5°	2103.7	2099.4	1949.6	1841.5	1855.9
60°	1834.3	1851.6	1753.6	1600.9	1592.2
62.5°	1543.2	1553.3	1510.1	1351.6	1321.3
65°	1282.4	1272.3	1259.4	1123.9	1098.0
67.5°	1067.7	1037.5	1017.3	935.2	922.2
70°	886.2	838.6	798.3	785.3	772.3
72.5°	717.6	683.0	618.2	654.2	652.7
75°	580.7	549.0	481.3	547.5	553.3
77.5°	475.5	453.9	389.0	449.6	468.3
80°	403.5	358.8	327.1	366.0	390.5
82.5°	308.4	273.8	266.6	282.4	305.5
85°	204.6	191.6	197.4	203.2	217.6
87.5°	103.7	111.0	119.6	129.7	136.9
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1526942

CATALOG NUMBER: 24CGTX-80HE-A125-L830

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	19.2	21.0	19.6	21.3	21.6	18.3	20.1	18.7	20.4	20.7
	3H	20.3	21.9	20.7	22.2	22.6	19.4	21.0	19.8	21.4	21.7
	4H	20.7	22.2	21.1	22.6	22.9	19.9	21.4	20.3	21.8	22.1
	6H	21.1	22.5	21.5	22.8	23.2	20.3	21.7	20.7	22.1	22.5
	8H	21.2	22.6	21.6	23.0	23.4	20.5	21.9	20.9	22.3	22.7
	12H	21.3	22.6	21.8	23.0	23.5	20.7	22.0	21.1	22.4	22.8
4H	2H	19.6	21.1	20.0	21.5	21.9	18.9	20.4	19.3	20.7	21.1
	3H	20.9	22.2	21.3	22.6	23.0	20.2	21.5	20.6	21.8	22.2
	4H	21.4	22.6	21.8	23.0	23.4	20.8	21.9	21.2	22.3	22.8
	6H	21.9	22.9	22.3	23.3	23.8	21.3	22.4	21.8	22.8	23.2
	8H	22.1	23.1	22.6	23.5	24.0	21.6	22.5	22.0	23.0	23.5
	12H	22.3	23.2	22.8	23.6	24.1	21.8	22.7	22.3	23.2	23.6
8H	4H	21.6	22.5	22.0	23.0	23.4	21.0	21.9	21.4	22.4	22.8
	6H	22.2	23.0	22.6	23.4	23.9	21.7	22.5	22.2	23.0	23.4
	8H	22.5	23.2	23.0	23.7	24.2	22.0	22.7	22.5	23.2	23.7
	12H	22.7	23.4	23.2	23.9	24.4	22.4	23.0	22.9	23.5	24.1
12H	4H	21.6	22.4	22.1	22.9	23.4	21.0	21.9	21.5	22.3	22.8
	6H	22.2	22.9	22.7	23.4	23.9	21.7	22.5	22.3	22.9	23.5
	8H	22.6	23.2	23.1	23.7	24.2	22.1	22.8	22.6	23.3	23.8













(END OF REPORT)