

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: P1526944

Luminaire Tested: 24CGTX-80HE-A125-L840

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1526944
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-L840
Description: CGTX with A125 Lens Option

Light Source:
Ballast/Driver: -

Summary

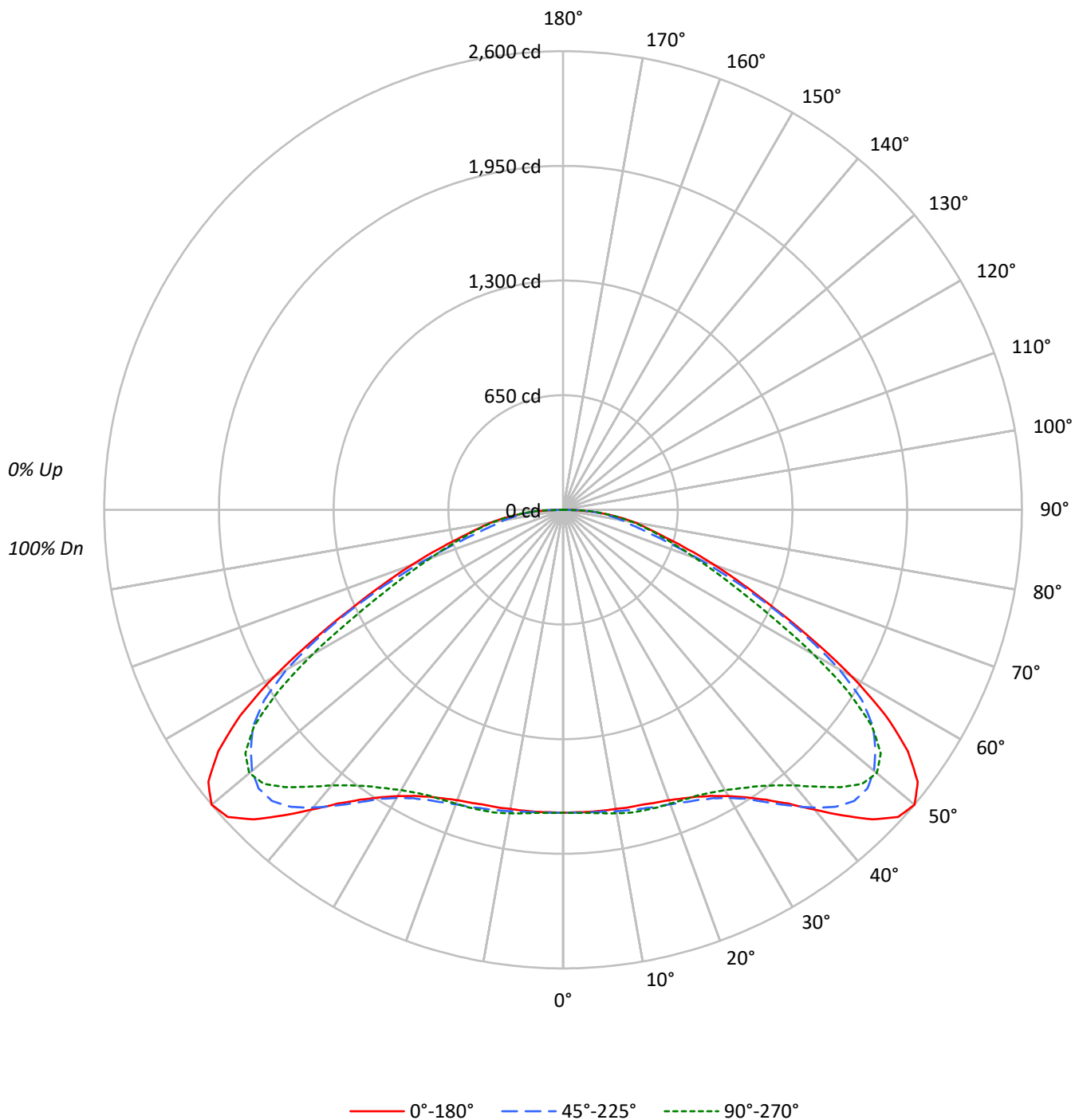
Lumens per Lamp: N/A
Luminaire Lumens: 8571.8 lumens
Efficiency: N/A
Efficacy: 135.0 lumens/watt
Spacing Criteria (0/90/45): 2.04 / 1.82 / 1.97
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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

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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	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°	2310	2310	2310
5°	2321	2325	2329
10°	2352	2370	2387
15°	2411	2442	2458
20°	2508	2544	2539
25°	2664	2695	2655
30°	2910	2931	2850
35°	3296	3325	3142
40°	3897	3871	3582
45°	4722	4439	4230
50°	5443	4815	4859
55°	5595	5031	5013
60°	5084	4860	4413
65°	4205	4130	3600
70°	3591	3234	3129
75°	3109	2577	2963
80°	3220	2610	3116
85°	3253	3138	3460

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 52.5°
Luminance: 5599 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.8	1.9
10°-20°	497.0	5.8
20°-30°	839.5	9.8
30°-40°	1263.8	14.7
40°-50°	1797.0	21.0
50°-60°	1928.6	22.5
60°-70°	1256.8	14.7
70°-80°	604.3	7.1
80°-90°	220.0	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°	1501.3	17.5
0°-40°	2765.1	32.3
0°-60°	6490.7	75.7
0°-90°	8571.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8571.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1717	1717	1717	1717	1717	
5°	1719	1720	1722	1728	1725	164
15°	1730	1739	1753	1763	1765	492
25°	1794	1811	1815	1799	1788	835
35°	2007	2045	2024	1956	1913	1274
45°	2482	2421	2333	2272	2223	1905
55°	2385	2324	2145	2082	2137	2086
65°	1321	1310	1297	1158	1131	1337
75°	598	566	496	564	570	657
85°	211	197	203	209	224	229
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1717.1	1717.1	1717.1	1717.1	1717.1
2.5°	1715.7	1717.1	1718.6	1720.1	1720.1
5°	1718.6	1720.1	1721.6	1727.5	1724.6
7.5°	1720.1	1721.6	1726.1	1735.0	1735.0
10°	1721.6	1726.1	1735.0	1743.9	1746.8
12.5°	1727.5	1732.0	1743.9	1755.7	1758.7
15°	1730.5	1739.4	1752.8	1763.2	1764.6
17.5°	1740.9	1749.8	1764.6	1769.1	1769.1
20°	1751.3	1763.2	1776.5	1776.5	1773.5
22.5°	1770.6	1783.9	1794.3	1785.4	1779.5
25°	1794.3	1810.6	1815.1	1798.8	1788.4
27.5°	1828.5	1849.2	1843.3	1821.0	1807.7
30°	1873.0	1899.7	1886.3	1853.7	1834.4
32.5°	1932.3	1965.0	1942.7	1901.2	1871.5
35°	2006.6	2045.1	2024.4	1956.1	1913.1
37.5°	2098.6	2138.6	2113.4	2025.8	1968.0
40°	2218.8	2239.6	2203.9	2109.0	2039.2
42.5°	2349.4	2339.0	2284.1	2196.5	2128.3
45°	2481.5	2420.6	2333.1	2272.2	2223.2
47.5°	2576.5	2463.7	2339.0	2307.8	2298.9
50°	2600.2	2454.8	2300.4	2288.5	2321.2
52.5°	2533.4	2407.3	2230.7	2209.9	2269.2
55°	2385.0	2324.2	2144.6	2082.2	2137.2
57.5°	2166.8	2162.4	2008.0	1896.7	1911.6
60°	1889.3	1907.1	1806.2	1648.9	1640.0
62.5°	1589.5	1599.9	1555.4	1392.1	1361.0
65°	1320.9	1310.5	1297.1	1157.6	1130.9
67.5°	1099.7	1068.6	1047.8	963.2	949.8
70°	912.7	863.8	822.2	808.9	795.5
72.5°	739.1	703.5	636.7	673.8	672.3
75°	598.1	565.5	495.7	564.0	569.9
77.5°	489.8	467.5	400.7	463.1	482.3
80°	415.6	369.6	336.9	377.0	402.2
82.5°	317.6	282.0	274.6	290.9	314.6
85°	210.7	197.4	203.3	209.3	224.1
87.5°	106.9	114.3	123.2	133.6	141.0
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	19.3	21.1	19.7	21.4	21.7	18.4	20.2	18.8	20.5	20.8
	3H	20.4	22.0	20.8	22.3	22.7	19.5	21.1	19.9	21.5	21.8
	4H	20.8	22.3	21.2	22.7	23.0	20.0	21.5	20.4	21.9	22.2
	6H	21.2	22.6	21.6	22.9	23.3	20.4	21.9	20.8	22.2	22.6
	8H	21.3	22.7	21.7	23.1	23.5	20.6	22.0	21.1	22.4	22.8
	12H	21.4	22.8	21.9	23.1	23.6	20.8	22.1	21.2	22.5	22.9
4H	2H	19.7	21.2	20.1	21.6	22.0	19.0	20.5	19.4	20.8	21.2
	3H	21.0	22.3	21.4	22.7	23.1	20.3	21.6	20.7	22.0	22.3
	4H	21.5	22.7	21.9	23.1	23.5	20.9	22.0	21.3	22.4	22.9
	6H	22.0	23.0	22.4	23.4	23.9	21.4	22.5	21.9	22.9	23.3
	8H	22.2	23.2	22.7	23.6	24.1	21.7	22.7	22.2	23.1	23.6
	12H	22.4	23.3	22.9	23.7	24.2	21.9	22.8	22.4	23.3	23.7
8H	4H	21.7	22.6	22.1	23.1	23.5	21.1	22.0	21.5	22.5	22.9
	6H	22.3	23.1	22.8	23.5	24.0	21.8	22.6	22.3	23.1	23.5
	8H	22.6	23.3	23.1	23.8	24.3	22.1	22.8	22.6	23.3	23.8
	12H	22.8	23.5	23.4	24.0	24.5	22.5	23.1	23.0	23.6	24.2
12H	4H	21.7	22.6	22.2	23.0	23.5	21.1	22.0	21.6	22.4	22.9
	6H	22.3	23.0	22.8	23.5	24.0	21.8	22.6	22.4	23.0	23.6
	8H	22.7	23.3	23.2	23.8	24.3	22.2	22.9	22.7	23.4	23.9













(END OF REPORT)