

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: P1526945

Luminaire Tested: 24CGTX-80HE-A125-L850

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1526945
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-L850
Description: CGTX with A125 Lens Option

Light Source:
Ballast/Driver: -

Summary

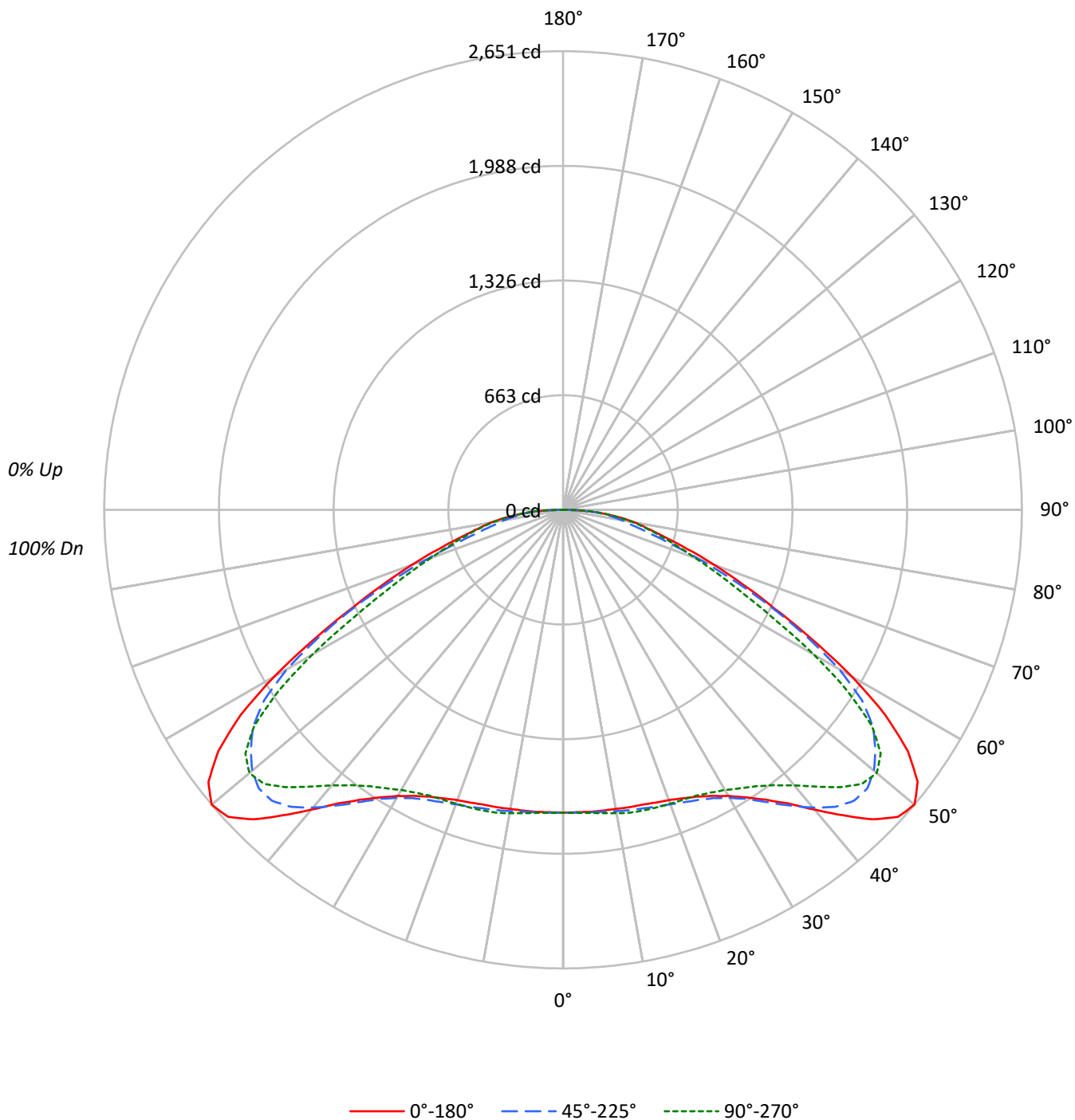
Lumens per Lamp: N/A
Luminaire Lumens: 8738.2 lumens
Efficiency: N/A
Efficacy: 137.6 lumens/watt
Spacing Criteria (0/90/45): 2.04 / 1.82 / 1.97
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	102	102	102	100
1	108	102	98	94	105	100	96	92	96	92	89	92	89	86	88	86	84	84	84	84	82
2	97	88	80	74	94	86	79	73	82	76	71	79	74	70	76	72	68	68	68	68	66
3	87	76	67	60	85	74	66	59	71	64	58	68	62	57	66	60	56	56	56	56	54
4	79	66	56	49	77	65	56	49	62	54	48	60	53	47	57	51	47	47	47	47	44
5	72	58	48	41	70	57	48	41	55	46	40	53	45	40	51	44	39	39	39	39	37
6	66	51	42	35	64	50	41	35	49	40	34	47	39	34	45	39	34	34	34	34	31
7	61	46	36	30	59	45	36	30	43	35	29	42	35	29	41	34	29	29	29	29	27
8	56	41	32	26	54	41	32	26	39	31	26	38	31	25	37	30	25	25	25	25	23
9	52	38	29	23	50	37	29	23	36	28	23	35	28	22	34	27	22	22	22	22	20
10	48	34	26	20	47	34	26	20	33	25	20	32	25	20	31	24	20	20	20	20	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2355	2355	2355
5°	2366	2370	2375
10°	2398	2416	2433
15°	2457	2489	2506
20°	2556	2593	2589
25°	2716	2747	2707
30°	2966	2988	2905
35°	3360	3390	3203
40°	3973	3946	3651
45°	4814	4526	4313
50°	5548	4909	4953
55°	5703	5128	5111
60°	5183	4955	4499
65°	4287	4210	3670
70°	3661	3297	3190
75°	3170	2627	3020
80°	3282	2661	3177
85°	3316	3200	3528

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 5708 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.0	1.9
10°-20°	506.6	5.8
20°-30°	855.8	9.8
30°-40°	1288.3	14.7
40°-50°	1831.9	21.0
50°-60°	1966.0	22.5
60°-70°	1281.2	14.7
70°-80°	616.0	7.1
80°-90°	224.2	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°	1530.4	17.5
0°-40°	2818.8	32.3
0°-60°	6616.7	75.7
0°-90°	8738.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8738.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1750	1750	1750	1750	1750	
5°	1752	1754	1755	1761	1758	167
15°	1764	1773	1787	1797	1799	501
25°	1829	1846	1850	1834	1823	852
35°	2046	2085	2064	1994	1950	1298
45°	2530	2468	2378	2316	2266	1942
55°	2431	2369	2186	2123	2179	2127
65°	1346	1336	1322	1180	1153	1363
75°	610	576	505	575	581	670
85°	215	201	207	213	228	234
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1750.5	1750.5	1750.5	1750.5	1750.5
2.5°	1749.0	1750.5	1752.0	1753.5	1753.5
5°	1752.0	1753.5	1755.0	1761.1	1758.1
7.5°	1753.5	1755.0	1759.6	1768.6	1768.6
10°	1755.0	1759.6	1768.6	1777.7	1780.7
12.5°	1761.1	1765.6	1777.7	1789.8	1792.9
15°	1764.1	1773.2	1786.8	1797.4	1798.9
17.5°	1774.7	1783.8	1798.9	1803.4	1803.4
20°	1785.3	1797.4	1811.0	1811.0	1808.0
22.5°	1805.0	1818.6	1829.2	1820.1	1814.0
25°	1829.2	1845.8	1850.3	1833.7	1823.1
27.5°	1864.0	1885.1	1879.1	1856.4	1842.8
30°	1909.3	1936.6	1923.0	1889.7	1870.0
32.5°	1969.9	2003.2	1980.5	1938.1	1907.8
35°	2045.5	2084.9	2063.7	1994.1	1950.2
37.5°	2139.3	2180.2	2154.4	2065.2	2006.2
40°	2261.9	2283.0	2246.7	2149.9	2078.8
42.5°	2395.0	2384.4	2328.4	2239.2	2169.6
45°	2529.7	2467.6	2378.4	2316.3	2266.4
47.5°	2626.5	2511.5	2384.4	2352.6	2343.6
50°	2650.7	2502.4	2345.1	2333.0	2366.3
52.5°	2582.6	2454.0	2274.0	2252.8	2313.3
55°	2431.3	2369.3	2186.2	2122.7	2178.7
57.5°	2208.9	2204.4	2047.0	1933.6	1948.7
60°	1926.0	1944.1	1841.3	1680.9	1671.8
62.5°	1620.4	1631.0	1585.6	1419.2	1387.4
65°	1346.5	1335.9	1322.3	1180.1	1152.9
67.5°	1121.1	1089.3	1068.1	981.9	968.3
70°	930.5	880.5	838.2	824.6	810.9
72.5°	753.5	717.1	649.1	686.9	685.4
75°	609.7	576.4	505.3	574.9	581.0
77.5°	499.3	476.6	408.5	472.0	491.7
80°	423.6	376.7	343.4	384.3	410.0
82.5°	323.8	287.5	279.9	296.5	320.7
85°	214.8	201.2	207.3	213.3	228.5
87.5°	108.9	116.5	125.6	136.2	143.7
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	19.4	21.2	19.7	21.5	21.8	18.5	20.2	18.8	20.6	20.9
	3H	20.5	22.1	20.9	22.4	22.8	19.6	21.2	20.0	21.5	21.9
	4H	20.9	22.4	21.3	22.7	23.1	20.1	21.6	20.5	21.9	22.3
	6H	21.2	22.6	21.6	23.0	23.4	20.5	21.9	20.9	22.3	22.7
	8H	21.4	22.7	21.8	23.1	23.5	20.7	22.1	21.1	22.4	22.8
	12H	21.5	22.8	21.9	23.2	23.6	20.9	22.2	21.3	22.6	23.0
4H	2H	19.8	21.3	20.2	21.7	22.0	19.0	20.6	19.4	20.9	21.3
	3H	21.1	22.3	21.5	22.7	23.1	20.3	21.6	20.8	22.0	22.4
	4H	21.6	22.7	22.0	23.1	23.6	20.9	22.1	21.4	22.5	22.9
	6H	22.1	23.1	22.5	23.5	24.0	21.5	22.5	22.0	23.0	23.4
	8H	22.3	23.2	22.7	23.7	24.1	21.8	22.7	22.2	23.2	23.6
	12H	22.5	23.3	23.0	23.8	24.3	22.0	22.9	22.5	23.3	23.8
8H	4H	21.7	22.7	22.2	23.1	23.6	21.1	22.1	21.6	22.5	23.0
	6H	22.3	23.1	22.8	23.6	24.1	21.8	22.6	22.3	23.1	23.6
	8H	22.6	23.3	23.1	23.8	24.3	22.2	22.9	22.7	23.4	23.9
	12H	22.9	23.6	23.4	24.0	24.6	22.5	23.2	23.1	23.7	24.2
12H	4H	21.8	22.6	22.2	23.1	23.6	21.2	22.0	21.6	22.5	23.0
	6H	22.4	23.1	22.9	23.6	24.1	21.9	22.6	22.4	23.1	23.6
	8H	22.7	23.4	23.2	23.9	24.4	22.3	23.0	22.8	23.4	24.0













(END OF REPORT)