

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: P1527382

Luminaire Tested: 24CGSB-80-A125-L850

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1527382
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: 24CGSB-80-A125-L850
Description: CGTX with A125 Lens Option

Light Source:
Ballast/Driver: -

Summary

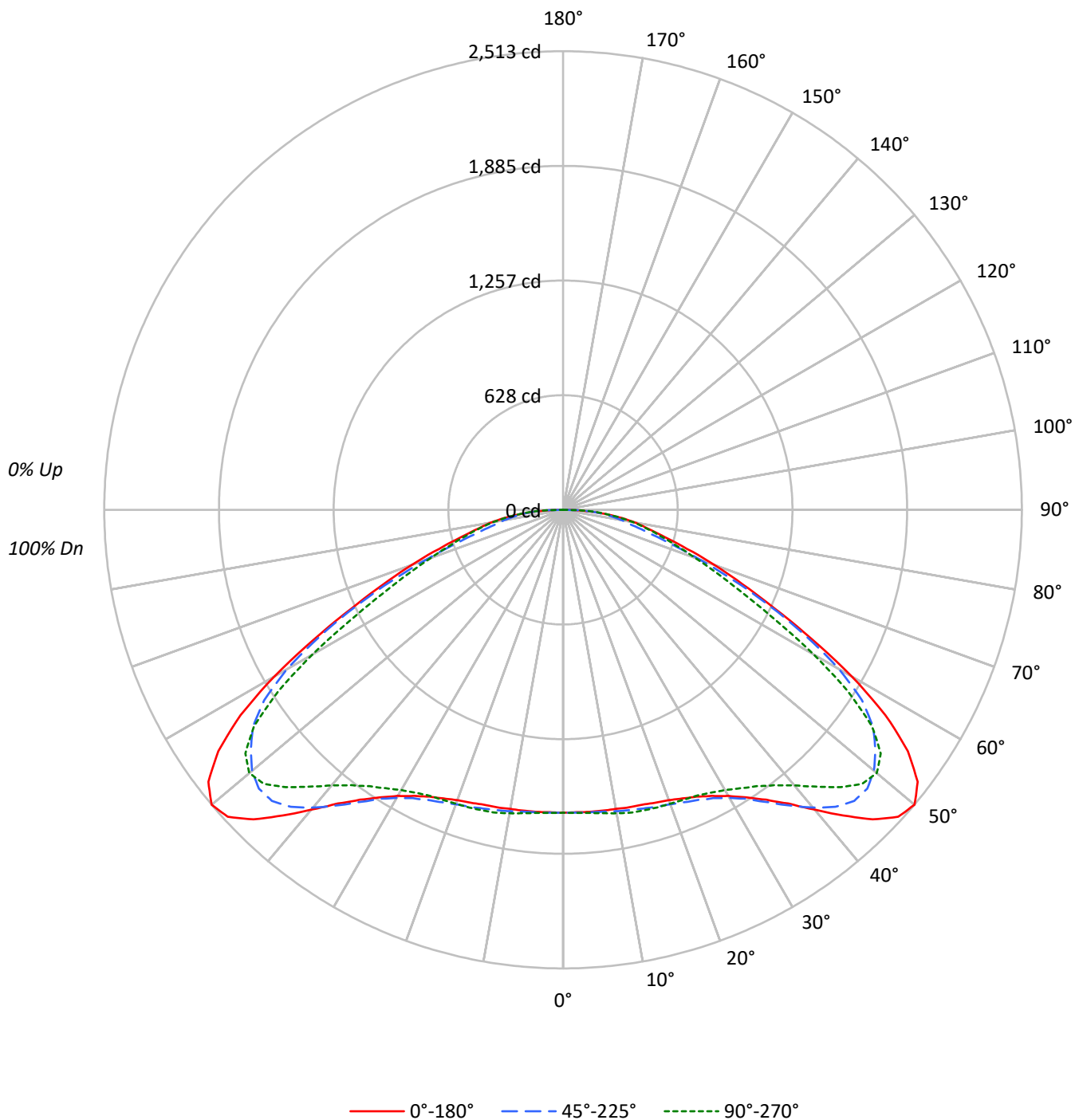
Lumens per Lamp: N/A
Luminaire Lumens: 8284.6 lumens
Efficiency: N/A
Efficacy: 123.8 lumens/watt
Spacing Criteria (0/90/45): 2.04 / 1.82 / 1.97
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 66.9
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			
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	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°	2233	2233	2233
5°	2244	2247	2251
10°	2273	2291	2307
15°	2330	2360	2376
20°	2424	2458	2454
25°	2575	2604	2566
30°	2812	2832	2754
35°	3185	3214	3037
40°	3767	3741	3462
45°	4564	4291	4089
50°	5260	4654	4696
55°	5407	4862	4845
60°	4914	4698	4265
65°	4064	3991	3480
70°	3471	3126	3024
75°	3005	2491	2863
80°	3112	2523	3012
85°	3145	3034	3344

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 5412 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.3	1.9
10°-20°	480.3	5.8
20°-30°	811.4	9.8
30°-40°	1221.4	14.7
40°-50°	1736.8	21.0
50°-60°	1863.9	22.5
60°-70°	1214.7	14.7
70°-80°	584.1	7.1
80°-90°	212.6	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°	1451.0	17.5
0°-40°	2672.4	32.3
0°-60°	6273.2	75.7
0°-90°	8284.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8284.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1660	1660	1660	1660	1660	
5°	1661	1662	1664	1670	1667	159
15°	1672	1681	1694	1704	1706	475
25°	1734	1750	1754	1738	1728	807
35°	1939	1977	1956	1891	1849	1231
45°	2398	2340	2255	2196	2149	1841
55°	2305	2246	2073	2012	2066	2017
65°	1277	1267	1254	1119	1093	1292
75°	578	546	479	545	551	635
85°	204	191	196	202	217	222
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1659.6	1659.6	1659.6	1659.6	1659.6
2.5°	1658.2	1659.6	1661.1	1662.5	1662.5
5°	1661.1	1662.5	1663.9	1669.7	1666.8
7.5°	1662.5	1663.9	1668.2	1676.8	1676.8
10°	1663.9	1668.2	1676.8	1685.4	1688.3
12.5°	1669.7	1674.0	1685.4	1696.9	1699.8
15°	1672.5	1681.1	1694.0	1704.1	1705.5
17.5°	1682.6	1691.2	1705.5	1709.8	1709.8
20°	1692.6	1704.1	1717.0	1717.0	1714.1
22.5°	1711.3	1724.2	1734.2	1725.6	1719.9
25°	1734.2	1750.0	1754.3	1738.5	1728.5
27.5°	1767.2	1787.3	1781.5	1760.0	1747.1
30°	1810.2	1836.1	1823.1	1791.6	1772.9
32.5°	1867.6	1899.2	1877.7	1837.5	1808.8
35°	1939.3	1976.6	1956.5	1890.6	1849.0
37.5°	2028.3	2067.0	2042.6	1958.0	1902.0
40°	2144.5	2164.5	2130.1	2038.3	1970.9
42.5°	2270.7	2260.6	2207.6	2122.9	2057.0
45°	2398.3	2339.5	2254.9	2196.1	2148.8
47.5°	2490.1	2381.1	2260.6	2230.5	2221.9
50°	2513.1	2372.5	2223.3	2211.9	2243.4
52.5°	2448.5	2326.6	2155.9	2135.8	2193.2
55°	2305.1	2246.3	2072.7	2012.5	2065.6
57.5°	2094.2	2089.9	1940.8	1833.2	1847.5
60°	1826.0	1843.2	1745.7	1593.6	1585.0
62.5°	1536.3	1546.3	1503.3	1345.5	1315.4
65°	1276.6	1266.6	1253.7	1118.8	1093.0
67.5°	1062.9	1032.8	1012.7	930.9	918.0
70°	882.2	834.8	794.7	781.8	768.8
72.5°	714.3	679.9	615.4	651.2	649.8
75°	578.1	546.5	479.1	545.1	550.8
77.5°	473.4	451.8	387.3	447.5	466.2
80°	401.6	357.2	325.6	364.3	388.7
82.5°	307.0	272.5	265.4	281.1	304.1
85°	203.7	190.8	196.5	202.3	216.6
87.5°	103.3	110.5	119.1	129.1	136.3
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	19.2	21.0	19.6	21.3	21.6	18.3	20.1	18.6	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	21.7	22.1
	6H	21.0	22.5	21.4	22.8	23.2	20.3	21.7	20.7	22.1	22.5
	8H	21.2	22.6	21.6	22.9	23.3	20.5	21.9	20.9	22.3	22.7
	12H	21.3	22.6	21.8	23.0	23.4	20.7	22.0	21.1	22.4	22.8
4H	2H	19.6	21.1	20.0	21.5	21.8	18.8	20.4	19.2	20.7	21.1
	3H	20.9	22.2	21.3	22.6	23.0	20.2	21.4	20.6	21.8	22.2
	4H	21.4	22.5	21.8	23.0	23.4	20.7	21.9	21.2	22.3	22.7
	6H	21.9	22.9	22.3	23.3	23.8	21.3	22.3	21.8	22.8	23.2
	8H	22.1	23.0	22.5	23.5	23.9	21.6	22.5	22.0	23.0	23.4
	12H	22.3	23.2	22.8	23.6	24.1	21.8	22.7	22.3	23.2	23.6
8H	4H	21.5	22.5	22.0	22.9	23.4	20.9	21.9	21.4	22.3	22.8
	6H	22.1	22.9	22.6	23.4	23.9	21.7	22.5	22.1	22.9	23.4
	8H	22.4	23.2	22.9	23.7	24.1	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	24.0
12H	4H	21.6	22.4	22.0	22.9	23.4	21.0	21.8	21.5	22.3	22.8
	6H	22.2	22.9	22.7	23.4	23.9	21.7	22.5	22.2	22.9	23.4
	8H	22.5	23.2	23.0	23.7	24.2	22.1	22.8	22.6	23.3	23.8













(END OF REPORT)