

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: P1527381

Luminaire Tested: 24CGSB-80-A125-L840

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1527381
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-L840
Description: CGTX with A125 Lens Option

Light Source:
Ballast/Driver: -

Summary

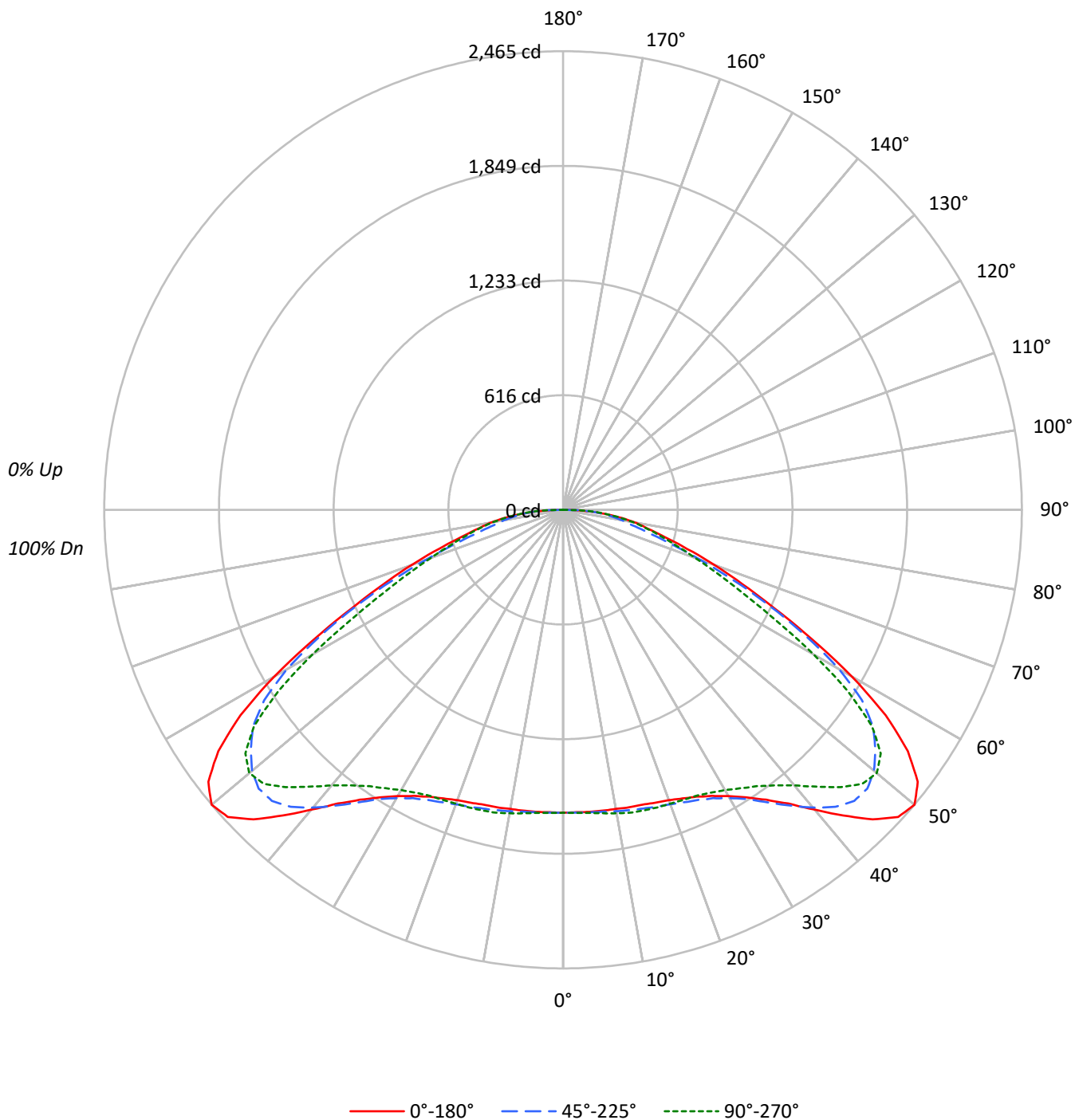
Lumens per Lamp: N/A
Luminaire Lumens: 8126.8 lumens
Efficiency: N/A
Efficacy: 121.5 lumens/watt
Spacing Criteria (0/90/45): 2.04 / 1.82 / 1.97
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	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°	2190	2190	2190
5°	2201	2204	2208
10°	2230	2247	2263
15°	2285	2315	2330
20°	2377	2412	2408
25°	2526	2555	2517
30°	2759	2779	2702
35°	3125	3153	2979
40°	3695	3670	3396
45°	4477	4209	4011
50°	5160	4565	4607
55°	5304	4770	4753
60°	4820	4608	4184
65°	3987	3915	3414
70°	3404	3067	2967
75°	2948	2443	2809
80°	3053	2475	2954
85°	3084	2976	3281

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 5309 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.2	1.9
10°-20°	471.2	5.8
20°-30°	795.9	9.8
30°-40°	1198.2	14.7
40°-50°	1703.7	21.0
50°-60°	1828.5	22.5
60°-70°	1191.6	14.7
70°-80°	572.9	7.0
80°-90°	208.5	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°	1423.4	17.5
0°-40°	2621.5	32.3
0°-60°	6153.7	75.7
0°-90°	8126.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8126.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1628	1628	1628	1628	1628	
5°	1629	1631	1632	1638	1635	156
15°	1641	1649	1662	1672	1673	466
25°	1701	1717	1721	1705	1696	792
35°	1902	1939	1919	1855	1814	1208
45°	2353	2295	2212	2154	2108	1806
55°	2261	2204	2033	1974	2026	1978
65°	1252	1242	1230	1098	1072	1267
75°	567	536	470	535	540	623
85°	200	187	193	198	212	217
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1628.0	1628.0	1628.0	1628.0	1628.0
2.5°	1626.6	1628.0	1629.4	1630.8	1630.8
5°	1629.4	1630.8	1632.2	1637.9	1635.0
7.5°	1630.8	1632.2	1636.5	1644.9	1644.9
10°	1632.2	1636.5	1644.9	1653.3	1656.2
12.5°	1637.9	1642.1	1653.3	1664.6	1667.4
15°	1640.7	1649.1	1661.8	1671.6	1673.0
17.5°	1650.5	1659.0	1673.0	1677.3	1677.3
20°	1660.4	1671.6	1684.3	1684.3	1681.5
22.5°	1678.7	1691.3	1701.2	1692.7	1687.1
25°	1701.2	1716.7	1720.9	1705.4	1695.5
27.5°	1733.5	1753.2	1747.6	1726.5	1713.8
30°	1775.8	1801.1	1788.4	1757.5	1739.2
32.5°	1832.0	1863.0	1841.9	1802.5	1774.3
35°	1902.4	1939.0	1919.3	1854.6	1813.7
37.5°	1989.6	2027.6	2003.7	1920.7	1865.8
40°	2103.6	2123.3	2089.5	1999.5	1933.3
42.5°	2227.4	2217.6	2165.5	2082.5	2017.8
45°	2352.7	2295.0	2212.0	2154.3	2107.8
47.5°	2442.7	2335.8	2217.6	2188.0	2179.6
50°	2465.2	2327.3	2181.0	2169.7	2200.7
52.5°	2401.9	2282.3	2114.9	2095.2	2151.4
55°	2261.2	2203.5	2033.3	1974.2	2026.2
57.5°	2054.4	2050.1	1903.8	1798.3	1812.3
60°	1791.2	1808.1	1712.4	1563.3	1554.8
62.5°	1507.0	1516.8	1474.6	1319.9	1290.3
65°	1252.3	1242.5	1229.8	1097.5	1072.2
67.5°	1042.7	1013.1	993.4	913.2	900.5
70°	865.4	818.9	779.5	766.9	754.2
72.5°	700.7	667.0	603.6	638.8	637.4
75°	567.1	536.1	470.0	534.7	540.3
77.5°	464.3	443.2	379.9	439.0	457.3
80°	394.0	350.4	319.4	357.4	381.3
82.5°	301.1	267.3	260.3	275.8	298.3
85°	199.8	187.1	192.8	198.4	212.5
87.5°	101.3	108.3	116.8	126.6	133.7
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	19.1	20.9	19.5	21.2	21.5	18.2	20.0	18.6	20.3	20.6
	3H	20.2	21.8	20.6	22.2	22.5	19.3	21.0	19.7	21.3	21.6
	4H	20.6	22.1	21.0	22.5	22.9	19.8	21.3	20.2	21.7	22.1
	6H	21.0	22.4	21.4	22.8	23.1	20.2	21.7	20.7	22.0	22.4
	8H	21.1	22.5	21.6	22.9	23.3	20.4	21.8	20.9	22.2	22.6
	12H	21.3	22.6	21.7	22.9	23.4	20.6	21.9	21.0	22.3	22.7
4H	2H	19.5	21.1	19.9	21.4	21.8	18.8	20.3	19.2	20.6	21.0
	3H	20.8	22.1	21.2	22.5	22.9	20.1	21.4	20.5	21.8	22.2
	4H	21.3	22.5	21.7	22.9	23.3	20.7	21.8	21.1	22.2	22.7
	6H	21.8	22.8	22.3	23.3	23.7	21.3	22.3	21.7	22.7	23.2
	8H	22.0	23.0	22.5	23.4	23.9	21.5	22.5	22.0	22.9	23.4
	12H	22.2	23.1	22.7	23.6	24.0	21.8	22.6	22.2	23.1	23.6
8H	4H	21.5	22.4	21.9	22.9	23.3	20.9	21.8	21.3	22.3	22.7
	6H	22.1	22.9	22.6	23.4	23.8	21.6	22.4	22.1	22.9	23.3
	8H	22.4	23.1	22.9	23.6	24.1	21.9	22.7	22.4	23.2	23.6
	12H	22.7	23.3	23.2	23.8	24.3	22.3	22.9	22.8	23.4	24.0
12H	4H	21.5	22.4	22.0	22.8	23.3	20.9	21.8	21.4	22.3	22.7
	6H	22.1	22.9	22.6	23.3	23.9	21.7	22.4	22.2	22.8	23.4
	8H	22.5	23.1	23.0	23.6	24.2	22.1	22.7	22.6	23.2	23.7















(END OF REPORT)