

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: P1527360

Luminaire Tested: 24CGSB-55-A125-L840

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1527360
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-55-A125-L840
Description: CGTX with A125 Lens Option

Light Source:
Ballast/Driver: -

Summary

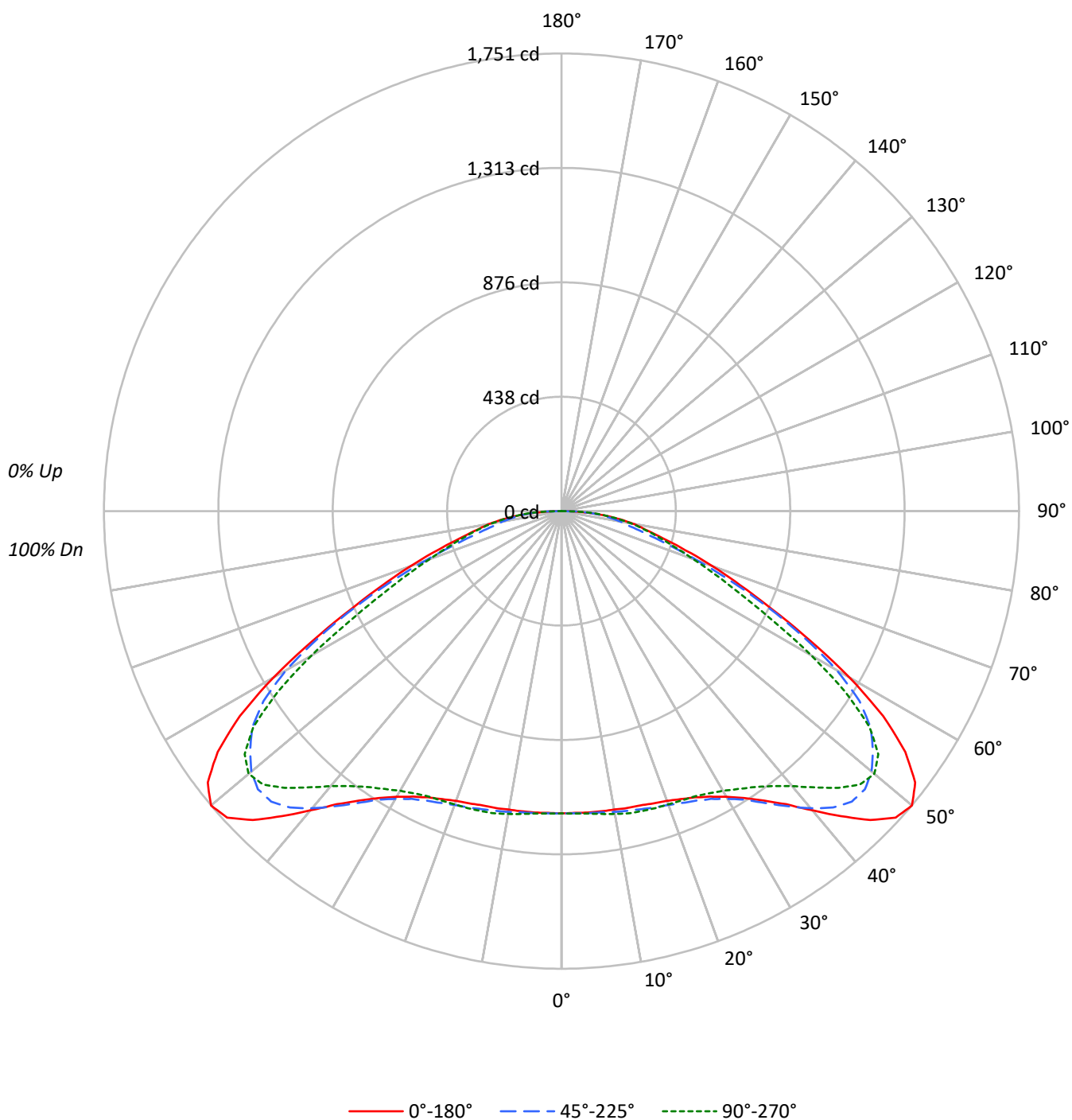
Lumens per Lamp: N/A
Luminaire Lumens: 5772.9 lumens
Efficiency: N/A
Efficacy: 127.2 lumens/watt
Spacing Criteria (0/90/45): 2.04 / 1.82 / 1.97
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 45.4
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°	1556	1556	1556
5°	1563	1566	1569
10°	1584	1596	1607
15°	1623	1644	1655
20°	1689	1713	1710
25°	1794	1815	1788
30°	1960	1974	1919
35°	2220	2239	2116
40°	2625	2607	2412
45°	3180	2990	2849
50°	3666	3243	3272
55°	3768	3388	3376
60°	3424	3273	2972
65°	2832	2781	2425
70°	2418	2178	2107
75°	2094	1735	1995
80°	2169	1758	2099
85°	2191	2113	2330

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 3771 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.0	1.9
10°-20°	334.7	5.8
20°-30°	565.4	9.8
30°-40°	851.1	14.7
40°-50°	1210.3	21.0
50°-60°	1298.8	22.5
60°-70°	846.5	14.7
70°-80°	407.0	7.1
80°-90°	148.1	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°	1011.1	17.5
0°-40°	1862.2	32.3
0°-60°	4371.3	75.7
0°-90°	5772.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5772.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1156	1156	1156	1156	1156	
5°	1158	1158	1160	1163	1161	111
15°	1165	1171	1180	1187	1188	331
25°	1208	1219	1222	1211	1204	563
35°	1351	1377	1363	1317	1288	858
45°	1671	1630	1571	1530	1497	1283
55°	1606	1565	1444	1402	1439	1405
65°	890	883	874	780	762	900
75°	403	381	334	380	384	442
85°	142	133	137	141	151	154
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1156.5	1156.5	1156.5	1156.5	1156.5
2.5°	1155.5	1156.5	1157.5	1158.5	1158.5
5°	1157.5	1158.5	1159.5	1163.4	1161.4
7.5°	1158.5	1159.5	1162.4	1168.4	1168.4
10°	1159.5	1162.4	1168.4	1174.4	1176.4
12.5°	1163.4	1166.4	1174.4	1182.4	1184.4
15°	1165.4	1171.4	1180.4	1187.4	1188.4
17.5°	1172.4	1178.4	1188.4	1191.4	1191.4
20°	1179.4	1187.4	1196.4	1196.4	1194.4
22.5°	1192.4	1201.4	1208.4	1202.4	1198.4
25°	1208.4	1219.4	1222.4	1211.4	1204.4
27.5°	1231.4	1245.4	1241.4	1226.4	1217.4
30°	1261.4	1279.4	1270.4	1248.4	1235.4
32.5°	1301.4	1323.4	1308.4	1280.4	1260.4
35°	1351.4	1377.3	1363.4	1317.4	1288.4
37.5°	1413.3	1440.3	1423.3	1364.4	1325.4
40°	1494.3	1508.3	1484.3	1420.3	1373.3
42.5°	1582.2	1575.3	1538.3	1479.3	1433.3
45°	1671.2	1630.2	1571.3	1530.3	1497.3
47.5°	1735.2	1659.2	1575.3	1554.3	1548.3
50°	1751.2	1653.2	1549.3	1541.3	1563.3
52.5°	1706.2	1621.2	1502.3	1488.3	1528.3
55°	1606.2	1565.3	1444.3	1402.3	1439.3
57.5°	1459.3	1456.3	1352.4	1277.4	1287.4
60°	1272.4	1284.4	1216.4	1110.5	1104.5
62.5°	1070.5	1077.5	1047.5	937.6	916.6
65°	889.6	882.6	873.6	779.6	761.6
67.5°	740.6	719.7	705.7	648.7	639.7
70°	614.7	581.7	553.7	544.7	535.7
72.5°	497.8	473.8	428.8	453.8	452.8
75°	402.8	380.8	333.8	379.8	383.8
77.5°	329.8	314.9	269.9	311.9	324.8
80°	279.9	248.9	226.9	253.9	270.9
82.5°	213.9	189.9	184.9	195.9	211.9
85°	141.9	132.9	136.9	140.9	150.9
87.5°	72.0	77.0	83.0	90.0	95.0
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	17.9	19.7	18.3	20.0	20.3	17.0	18.8	17.4	19.1	19.4
	3H	19.0	20.7	19.4	21.0	21.3	18.2	19.8	18.5	20.1	20.5
	4H	19.4	21.0	19.8	21.3	21.7	18.6	20.1	19.0	20.5	20.9
	6H	19.8	21.2	20.2	21.6	22.0	19.1	20.5	19.5	20.8	21.2
	8H	19.9	21.3	20.4	21.7	22.1	19.3	20.6	19.7	21.0	21.4
	12H	20.1	21.4	20.5	21.8	22.2	19.4	20.7	19.9	21.1	21.5
4H	2H	18.3	19.9	18.7	20.2	20.6	17.6	19.1	18.0	19.5	19.8
	3H	19.6	20.9	20.0	21.3	21.7	18.9	20.2	19.3	20.6	21.0
	4H	20.1	21.3	20.6	21.7	22.1	19.5	20.6	19.9	21.1	21.5
	6H	20.6	21.6	21.1	22.1	22.5	20.1	21.1	20.5	21.5	22.0
	8H	20.8	21.8	21.3	22.2	22.7	20.3	21.3	20.8	21.7	22.2
	12H	21.0	21.9	21.5	22.4	22.8	20.6	21.4	21.0	21.9	22.4
8H	4H	20.3	21.2	20.7	21.7	22.1	19.7	20.6	20.2	21.1	21.6
	6H	20.9	21.7	21.4	22.2	22.6	20.4	21.2	20.9	21.7	22.2
	8H	21.2	21.9	21.7	22.4	22.9	20.8	21.5	21.3	22.0	22.5
	12H	21.5	22.1	22.0	22.6	23.2	21.1	21.7	21.6	22.2	22.8
12H	4H	20.3	21.2	20.8	21.6	22.1	19.7	20.6	20.2	21.1	21.5
	6H	20.9	21.7	21.5	22.1	22.7	20.5	21.2	21.0	21.7	22.2
	8H	21.3	21.9	21.8	22.4	23.0	20.9	21.5	21.4	22.0	22.6















(END OF REPORT)