

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: P1527345

Luminaire Tested: 24CGSB-45-A125-L835

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1527345
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-45-A125-L835
Description: CGTX with A125 Lens Option

Light Source:
Ballast/Driver: -

Summary

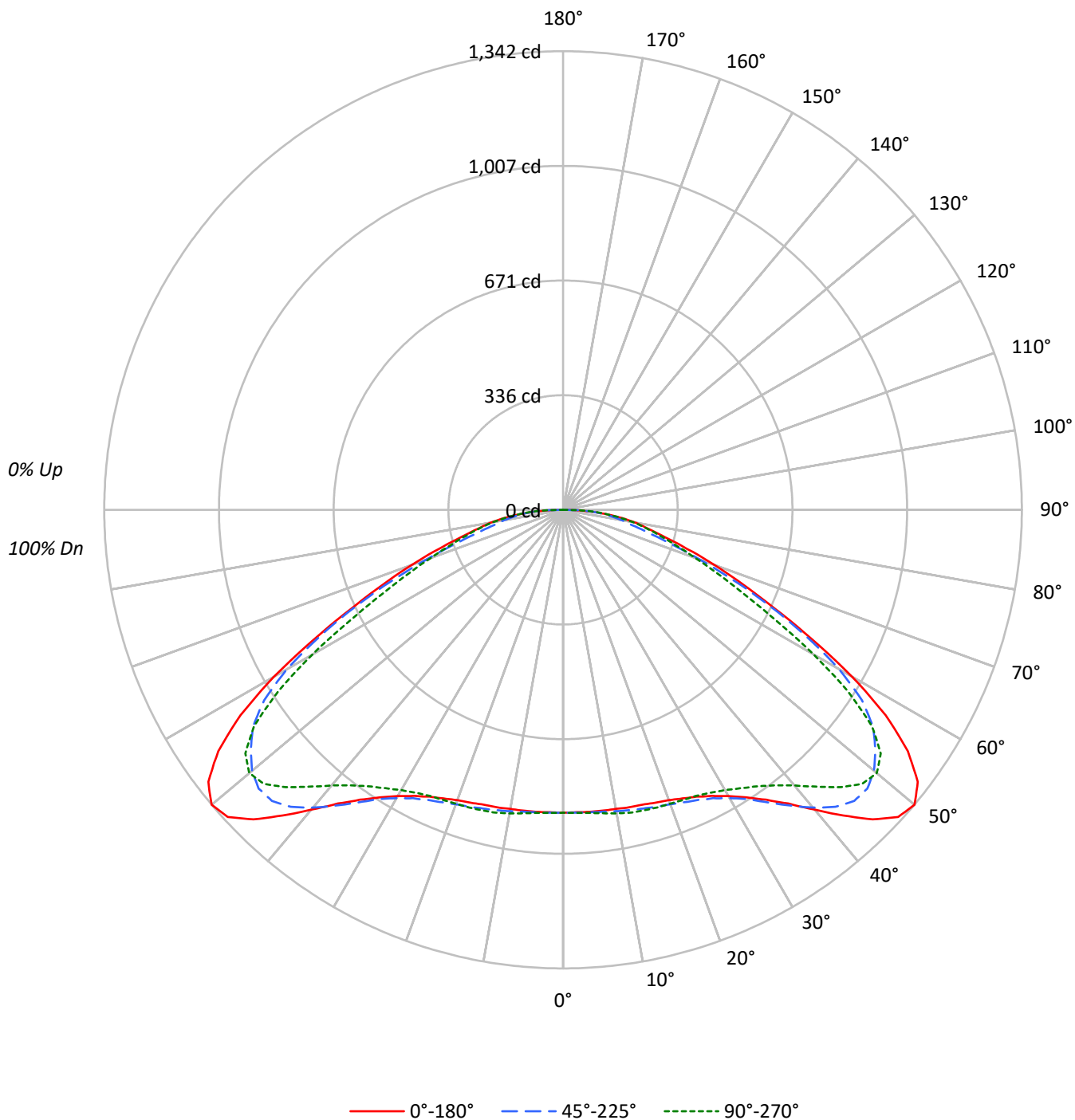
Lumens per Lamp: N/A
Luminaire Lumens: 4424.5 lumens
Efficiency: N/A
Efficacy: 125.0 lumens/watt
Spacing Criteria (0/90/45): 2.04 / 1.82 / 1.97
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 35.4
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

TEST NUMBER: P1527345

CATALOG NUMBER: 24CGSB-45-A125-L835

Luminous Intensity Polar Plot





TEST NUMBER: P1527345

CATALOG NUMBER: 24CGSB-45-A125-L835

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°	1193	1193	1193
5°	1198	1200	1202
10°	1214	1223	1232
15°	1244	1260	1269
20°	1294	1313	1311
25°	1375	1391	1370
30°	1502	1513	1471
35°	1701	1716	1622
40°	2012	1998	1849
45°	2437	2292	2184
50°	2809	2485	2508
55°	2888	2597	2588
60°	2624	2509	2278
65°	2171	2131	1858
70°	1853	1670	1615
75°	1605	1330	1529
80°	1662	1347	1609
85°	1680	1621	1786

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 2890 cd/sqm

TEST NUMBER: P1527345

CATALOG NUMBER: 24CGSB-45-A125-L835

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.1	1.9
10°-20°	256.5	5.8
20°-30°	433.3	9.8
30°-40°	652.3	14.7
40°-50°	927.6	21.0
50°-60°	995.5	22.5
60°-70°	648.7	14.7
70°-80°	311.9	7.0
80°-90°	113.5	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°	774.9	17.5
0°-40°	1427.2	32.3
0°-60°	3350.3	75.7
0°-90°	4424.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4424.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	886	886	886	886	886	
5°	887	888	889	892	890	85
15°	893	898	905	910	911	254
25°	926	935	937	928	923	431
35°	1036	1056	1045	1010	988	657
45°	1281	1249	1204	1173	1148	983
55°	1231	1200	1107	1075	1103	1077
65°	682	676	670	598	584	690
75°	309	292	256	291	294	339
85°	109	102	105	108	116	118
90°	0	0	0	0	0	

TEST NUMBER: P1527345

CATALOG NUMBER: 24CGSB-45-A125-L835

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	886.3	886.3	886.3	886.3	886.3
2.5°	885.6	886.3	887.1	887.9	887.9
5°	887.1	887.9	888.6	891.7	890.2
7.5°	887.9	888.6	890.9	895.5	895.5
10°	888.6	890.9	895.5	900.1	901.7
12.5°	891.7	894.0	900.1	906.3	907.8
15°	893.2	897.8	904.7	910.1	910.8
17.5°	898.6	903.2	910.8	913.1	913.1
20°	904.0	910.1	917.0	917.0	915.4
22.5°	913.9	920.8	926.2	921.6	918.5
25°	926.2	934.6	936.9	928.5	923.1
27.5°	943.8	954.5	951.4	940.0	933.1
30°	966.8	980.6	973.7	956.8	946.9
32.5°	997.4	1014.3	1002.8	981.3	966.0
35°	1035.7	1055.6	1044.9	1009.7	987.5
37.5°	1083.2	1103.9	1090.9	1045.7	1015.8
40°	1145.3	1156.0	1137.6	1088.6	1052.6
42.5°	1212.7	1207.3	1179.0	1133.8	1098.5
45°	1280.9	1249.4	1204.3	1172.8	1147.6
47.5°	1329.9	1271.7	1207.3	1191.2	1186.6
50°	1342.1	1267.1	1187.4	1181.3	1198.1
52.5°	1307.7	1242.6	1151.4	1140.7	1171.3
55°	1231.1	1199.7	1107.0	1074.8	1103.1
57.5°	1118.5	1116.2	1036.5	979.0	986.7
60°	975.2	984.4	932.3	851.1	846.5
62.5°	820.5	825.8	802.8	718.6	702.5
65°	681.8	676.4	669.5	597.5	583.7
67.5°	567.7	551.6	540.8	497.2	490.3
70°	471.1	445.8	424.4	417.5	410.6
72.5°	381.5	363.1	328.6	347.8	347.0
75°	308.7	291.9	255.9	291.1	294.2
77.5°	252.8	241.3	206.8	239.0	249.0
80°	214.5	190.7	173.9	194.6	207.6
82.5°	163.9	145.6	141.7	150.1	162.4
85°	108.8	101.9	105.0	108.0	115.7
87.5°	55.2	59.0	63.6	68.9	72.8
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1527345

CATALOG NUMBER: 24CGSB-45-A125-L835

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	17.0	18.8	17.4	19.1	19.4	16.1	17.9	16.5	18.2	18.5
	3H	18.1	19.7	18.5	20.1	20.4	17.2	18.8	17.6	19.2	19.5
	4H	18.5	20.0	18.9	20.4	20.7	17.7	19.2	18.1	19.6	19.9
	6H	18.9	20.3	19.3	20.6	21.0	18.1	19.6	18.5	19.9	20.3
	8H	19.0	20.4	19.4	20.8	21.2	18.3	19.7	18.8	20.1	20.5
	12H	19.2	20.5	19.6	20.8	21.3	18.5	19.8	18.9	20.2	20.6
4H	2H	17.4	18.9	17.8	19.3	19.7	16.7	18.2	17.1	18.5	18.9
	3H	18.7	20.0	19.1	20.4	20.8	18.0	19.3	18.4	19.7	20.1
	4H	19.2	20.4	19.6	20.8	21.2	18.6	19.7	19.0	20.1	20.6
	6H	19.7	20.7	20.1	21.1	21.6	19.1	20.2	19.6	20.6	21.0
	8H	19.9	20.9	20.4	21.3	21.8	19.4	20.4	19.9	20.8	21.3
	12H	20.1	21.0	20.6	21.4	21.9	19.6	20.5	20.1	21.0	21.4
8H	4H	19.4	20.3	19.8	20.8	21.2	18.8	19.7	19.2	20.2	20.6
	6H	20.0	20.8	20.5	21.2	21.7	19.5	20.3	20.0	20.8	21.2
	8H	20.3	21.0	20.8	21.5	22.0	19.8	20.5	20.3	21.0	21.5
	12H	20.6	21.2	21.1	21.7	22.2	20.2	20.8	20.7	21.3	21.9
12H	4H	19.4	20.3	19.9	20.7	21.2	18.8	19.7	19.3	20.1	20.6
	6H	20.0	20.7	20.5	21.2	21.7	19.5	20.3	20.1	20.7	21.3
	8H	20.4	21.0	20.9	21.5	22.1	19.9	20.6	20.5	21.1	21.6















(END OF REPORT)