

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: P1527358

Luminaire Tested: 24CGSB-55-A125-L830

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1527358
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-L830
Description: CGTX with A125 Lens Option

Light Source:
Ballast/Driver: -

Summary

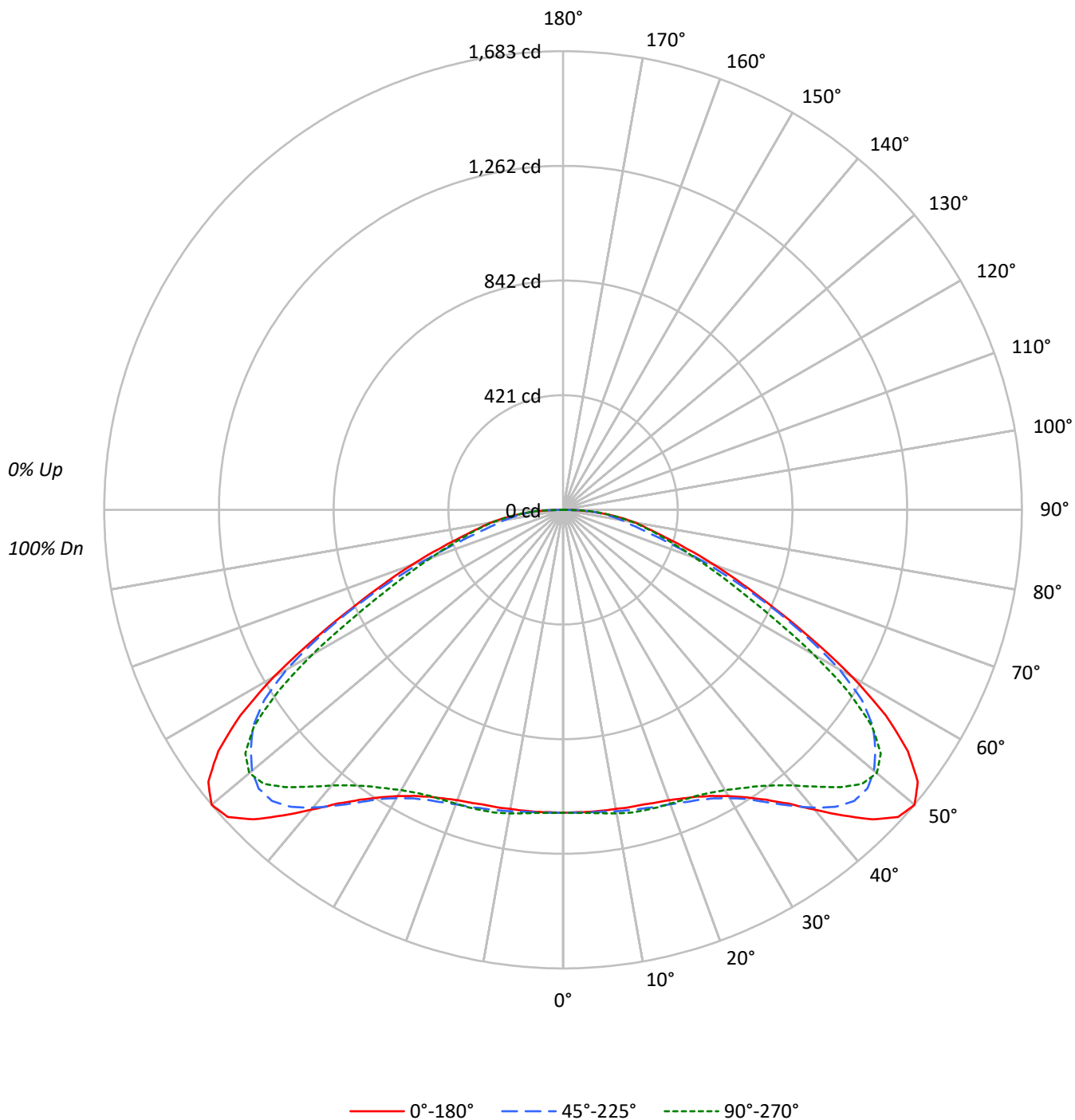
Lumens per Lamp: N/A
Luminaire Lumens: 5548.7 lumens
Efficiency: N/A
Efficacy: 122.2 lumens/watt
Spacing Criteria (0/90/45): 2.04 / 1.82 / 1.97
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	1496	1496	1496
5°	1503	1505	1508
10°	1523	1534	1545
15°	1560	1580	1591
20°	1623	1647	1644
25°	1724	1744	1719
30°	1884	1897	1845
35°	2133	2152	2034
40°	2523	2506	2318
45°	3056	2874	2738
50°	3523	3117	3145
55°	3622	3256	3245
60°	3291	3146	2857
65°	2722	2673	2331
70°	2324	2094	2026
75°	2013	1668	1918
80°	2084	1690	2018
85°	2106	2032	2240

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 3625 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.7	1.9
10°-20°	321.7	5.8
20°-30°	543.4	9.8
30°-40°	818.1	14.7
40°-50°	1163.2	21.0
50°-60°	1248.4	22.5
60°-70°	813.6	14.7
70°-80°	391.2	7.0
80°-90°	142.4	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°	971.8	17.5
0°-40°	1789.9	32.3
0°-60°	4201.5	75.7
0°-90°	5548.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5548.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1112	1112	1112	1112	1112	
5°	1112	1114	1114	1118	1116	106
15°	1120	1126	1135	1141	1142	318
25°	1162	1172	1175	1164	1158	541
35°	1299	1324	1310	1266	1238	824
45°	1606	1567	1510	1471	1439	1233
55°	1544	1504	1388	1348	1383	1351
65°	855	848	840	749	732	865
75°	387	366	321	365	369	425
85°	136	128	132	136	145	148
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1111.5	1111.5	1111.5	1111.5	1111.5
2.5°	1110.6	1111.5	1112.5	1113.5	1113.5
5°	1112.5	1113.5	1114.4	1118.3	1116.3
7.5°	1113.5	1114.4	1117.3	1123.1	1123.1
10°	1114.4	1117.3	1123.1	1128.8	1130.8
12.5°	1118.3	1121.1	1128.8	1136.5	1138.4
15°	1120.2	1126.0	1134.6	1141.3	1142.3
17.5°	1126.9	1132.7	1142.3	1145.2	1145.2
20°	1133.6	1141.3	1150.0	1150.0	1148.0
22.5°	1146.1	1154.8	1161.5	1155.7	1151.9
25°	1161.5	1172.1	1174.9	1164.4	1157.7
27.5°	1183.6	1197.0	1193.2	1178.8	1170.1
30°	1212.4	1229.7	1221.1	1199.9	1187.4
32.5°	1250.8	1272.0	1257.6	1230.7	1211.5
35°	1298.9	1323.9	1310.4	1266.2	1238.4
37.5°	1358.4	1384.4	1368.1	1311.4	1273.9
40°	1436.3	1449.7	1426.7	1365.2	1320.0
42.5°	1520.8	1514.1	1478.5	1421.9	1377.7
45°	1606.3	1566.9	1510.2	1470.8	1439.1
47.5°	1667.8	1594.8	1514.1	1493.9	1488.1
50°	1683.2	1589.0	1489.1	1481.4	1502.5
52.5°	1639.9	1558.3	1443.9	1430.5	1468.9
55°	1543.9	1504.5	1388.2	1347.9	1383.4
57.5°	1402.6	1399.8	1299.8	1227.8	1237.4
60°	1223.0	1234.5	1169.2	1067.3	1061.6
62.5°	1028.9	1035.6	1006.8	901.1	881.0
65°	855.0	848.3	839.7	749.4	732.1
67.5°	711.9	691.7	678.3	623.5	614.9
70°	590.8	559.1	532.2	523.6	514.9
72.5°	478.4	455.4	412.1	436.2	435.2
75°	387.2	366.0	320.9	365.1	368.9
77.5°	317.0	302.6	259.4	299.7	312.2
80°	269.0	239.2	218.1	244.0	260.4
82.5°	205.6	182.5	177.7	188.3	203.7
85°	136.4	127.8	131.6	135.5	145.1
87.5°	69.2	74.0	79.7	86.5	91.3
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	17.8	19.6	18.2	19.9	20.2	16.9	18.7	17.2	19.0	19.3
	3H	18.9	20.5	19.3	20.8	21.2	18.0	19.6	18.4	20.0	20.3
	4H	19.3	20.8	19.7	21.2	21.5	18.5	20.0	18.9	20.4	20.7
	6H	19.6	21.1	20.1	21.4	21.8	18.9	20.3	19.3	20.7	21.1
	8H	19.8	21.2	20.2	21.6	21.9	19.1	20.5	19.5	20.9	21.3
	12H	19.9	21.2	20.4	21.6	22.0	19.3	20.6	19.7	21.0	21.4
4H	2H	18.2	19.7	18.6	20.1	20.4	17.4	19.0	17.8	19.3	19.7
	3H	19.5	20.8	19.9	21.2	21.6	18.8	20.0	19.2	20.4	20.8
	4H	20.0	21.1	20.4	21.6	22.0	19.3	20.5	19.8	20.9	21.4
	6H	20.5	21.5	20.9	21.9	22.4	19.9	20.9	20.4	21.4	21.8
	8H	20.7	21.7	21.2	22.1	22.6	20.2	21.1	20.6	21.6	22.0
	12H	20.9	21.8	21.4	22.2	22.7	20.4	21.3	20.9	21.8	22.2
8H	4H	20.1	21.1	20.6	21.5	22.0	19.6	20.5	20.0	21.0	21.4
	6H	20.7	21.5	21.2	22.0	22.5	20.3	21.1	20.8	21.5	22.0
	8H	21.0	21.8	21.6	22.3	22.8	20.6	21.3	21.1	21.8	22.3
	12H	21.3	22.0	21.8	22.5	23.0	21.0	21.6	21.5	22.1	22.7
12H	4H	20.2	21.0	20.7	21.5	22.0	19.6	20.5	20.1	20.9	21.4
	6H	20.8	21.5	21.3	22.0	22.5	20.3	21.1	20.8	21.5	22.0
	8H	21.2	21.8	21.7	22.3	22.8	20.7	21.4	21.2	21.9	22.4













(END OF REPORT)