

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: P1526916

Luminaire Tested: 24CGTX-55HE-A125-L850

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1526916
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: 24CGTX-55HE-A125-L850
Description: CGTX with A125 Lens Option

Light Source:
Ballast/Driver: -

Summary

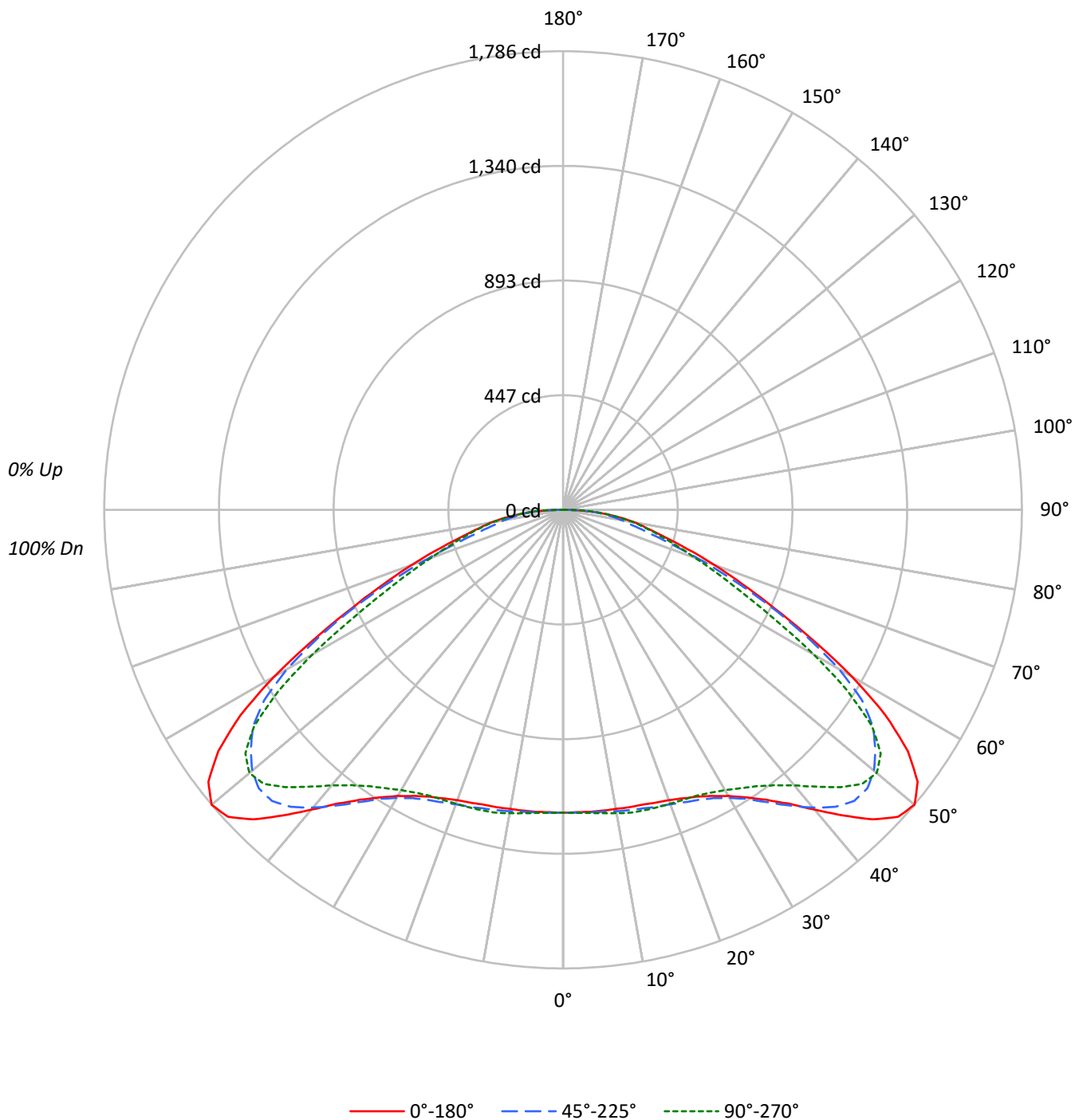
Lumens per Lamp: N/A
Luminaire Lumens: 5887.5 lumens
Efficiency: N/A
Efficacy: 142.6 lumens/watt
Spacing Criteria (0/90/45): 2.04 / 1.82 / 1.97
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 41.3
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°	1587	1587	1587
5°	1594	1597	1600
10°	1616	1628	1639
15°	1656	1677	1688
20°	1722	1747	1744
25°	1830	1851	1824
30°	1999	2013	1958
35°	2264	2284	2158
40°	2677	2659	2460
45°	3243	3049	2906
50°	3738	3307	3337
55°	3843	3455	3443
60°	3492	3338	3031
65°	2888	2836	2473
70°	2466	2222	2150
75°	2136	1770	2035
80°	2211	1793	2141
85°	2235	2157	2376

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 3846 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.2	1.9
10°-20°	341.4	5.8
20°-30°	576.6	9.8
30°-40°	868.0	14.7
40°-50°	1234.3	21.0
50°-60°	1324.6	22.5
60°-70°	863.3	14.7
70°-80°	415.1	7.1
80°-90°	151.1	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°	1031.2	17.5
0°-40°	1899.2	32.3
0°-60°	4458.1	75.7
0°-90°	5887.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5887.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1179	1179	1179	1179	1179	
5°	1180	1182	1182	1187	1184	113
15°	1189	1195	1204	1211	1212	338
25°	1232	1244	1247	1236	1228	574
35°	1378	1405	1390	1344	1314	875
45°	1704	1663	1602	1561	1527	1308
55°	1638	1596	1473	1430	1468	1433
65°	907	900	891	795	777	918
75°	411	388	340	387	391	451
85°	145	136	140	144	154	158
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1179.4	1179.4	1179.4	1179.4	1179.4
2.5°	1178.4	1179.4	1180.4	1181.5	1181.5
5°	1180.4	1181.5	1182.5	1186.6	1184.5
7.5°	1181.5	1182.5	1185.5	1191.7	1191.7
10°	1182.5	1185.5	1191.7	1197.8	1199.8
12.5°	1186.6	1189.6	1197.8	1205.9	1208.0
15°	1188.6	1194.7	1203.9	1211.0	1212.0
17.5°	1195.7	1201.9	1212.0	1215.1	1215.1
20°	1202.9	1211.0	1220.2	1220.2	1218.2
22.5°	1216.1	1225.3	1232.4	1226.3	1222.2
25°	1232.4	1243.6	1246.7	1235.5	1228.4
27.5°	1255.9	1270.1	1266.1	1250.8	1241.6
30°	1286.5	1304.8	1295.6	1273.2	1260.0
32.5°	1327.2	1349.7	1334.4	1305.8	1285.4
35°	1378.2	1404.7	1390.4	1343.5	1314.0
37.5°	1441.4	1468.9	1451.6	1391.5	1351.7
40°	1524.0	1538.2	1513.8	1448.5	1400.6
42.5°	1613.7	1606.5	1568.8	1508.7	1461.8
45°	1704.4	1662.6	1602.5	1560.7	1527.0
47.5°	1769.6	1692.2	1606.5	1585.1	1579.0
50°	1786.0	1686.1	1580.0	1571.9	1594.3
52.5°	1740.1	1653.4	1532.1	1517.9	1558.6
55°	1638.1	1596.4	1473.0	1430.2	1467.9
57.5°	1488.3	1485.2	1379.2	1302.8	1313.0
60°	1297.7	1309.9	1240.6	1132.5	1126.4
62.5°	1091.8	1098.9	1068.3	956.2	934.8
65°	907.2	900.1	890.9	795.1	776.8
67.5°	755.4	734.0	719.7	661.6	652.4
70°	626.9	593.3	564.7	555.6	546.4
72.5°	507.7	483.2	437.3	462.8	461.8
75°	410.8	388.4	340.5	387.4	391.4
77.5°	336.4	321.1	275.2	318.0	331.3
80°	285.4	253.8	231.4	258.9	276.3
82.5°	218.1	193.7	188.6	199.8	216.1
85°	144.8	135.6	139.7	143.7	153.9
87.5°	73.4	78.5	84.6	91.7	96.8
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	18.0	19.8	18.4	20.1	20.4	17.1	18.9	17.5	19.2	19.5
	3H	19.1	20.7	19.5	21.0	21.4	18.2	19.8	18.6	20.2	20.5
	4H	19.5	21.0	19.9	21.4	21.7	18.7	20.2	19.1	20.6	20.9
	6H	19.9	21.3	20.3	21.6	22.0	19.1	20.5	19.5	20.9	21.3
	8H	20.0	21.4	20.4	21.8	22.2	19.3	20.7	19.7	21.1	21.5
	12H	20.1	21.4	20.6	21.8	22.3	19.5	20.8	19.9	21.2	21.6
4H	2H	18.4	19.9	18.8	20.3	20.7	17.7	19.2	18.0	19.5	19.9
	3H	19.7	21.0	20.1	21.4	21.8	19.0	20.3	19.4	20.6	21.0
	4H	20.2	21.4	20.6	21.8	22.2	19.6	20.7	20.0	21.1	21.6
	6H	20.7	21.7	21.1	22.1	22.6	20.1	21.1	20.6	21.6	22.0
	8H	20.9	21.9	21.4	22.3	22.8	20.4	21.3	20.8	21.8	22.2
	12H	21.1	22.0	21.6	22.4	22.9	20.6	21.5	21.1	22.0	22.4
8H	4H	20.4	21.3	20.8	21.7	22.2	19.8	20.7	20.2	21.2	21.6
	6H	21.0	21.8	21.4	22.2	22.7	20.5	21.3	21.0	21.8	22.2
	8H	21.3	22.0	21.8	22.5	23.0	20.8	21.5	21.3	22.0	22.5
	12H	21.5	22.2	22.0	22.7	23.2	21.2	21.8	21.7	22.3	22.9
12H	4H	20.4	21.2	20.9	21.7	22.2	19.8	20.7	20.3	21.1	21.6
	6H	21.0	21.7	21.5	22.2	22.7	20.5	21.3	21.1	21.7	22.3
	8H	21.4	22.0	21.9	22.5	23.0	20.9	21.6	21.4	22.1	22.6













(END OF REPORT)