

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: P1526894

Luminaire Tested: 24CGTX-40HE-A125-L850

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1526894
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-40HE-A125-L850
Description: CGTX with A125 Lens Option

Light Source:
Ballast/Driver: -

Summary

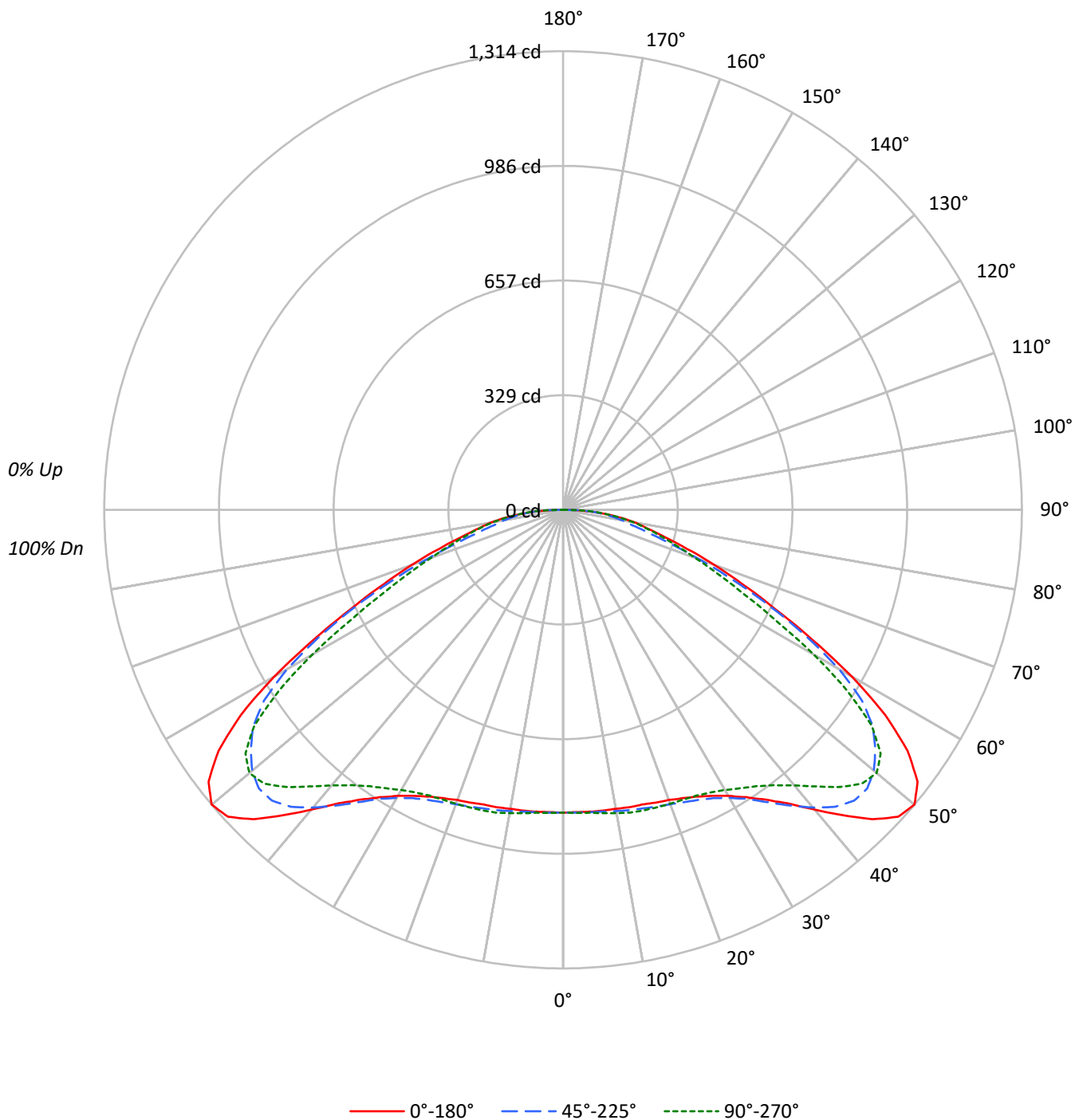
Lumens per Lamp: N/A
Luminaire Lumens: 4330.2 lumens
Efficiency: N/A
Efficacy: 144.8 lumens/watt
Spacing Criteria (0/90/45): 2.04 / 1.82 / 1.97
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 29.9
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				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°	1167	1167	1167
5°	1173	1175	1177
10°	1188	1198	1206
15°	1218	1233	1242
20°	1267	1285	1283
25°	1346	1361	1341
30°	1470	1480	1440
35°	1665	1680	1587
40°	1969	1956	1809
45°	2385	2243	2137
50°	2750	2433	2454
55°	2826	2541	2533
60°	2568	2455	2229
65°	2124	2086	1819
70°	1814	1634	1581
75°	1570	1302	1497
80°	1626	1319	1574
85°	1644	1585	1748

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 2829 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.3	1.9
10°-20°	251.1	5.8
20°-30°	424.1	9.8
30°-40°	638.4	14.7
40°-50°	907.8	21.0
50°-60°	974.3	22.5
60°-70°	634.9	14.7
70°-80°	305.3	7.1
80°-90°	111.1	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°	758.4	17.5
0°-40°	1396.8	32.3
0°-60°	3278.9	75.7
0°-90°	4330.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4330.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	868	868	868	868	868	
5°	868	869	870	873	871	83
15°	874	879	886	891	891	248
25°	906	915	917	909	903	422
35°	1014	1033	1023	988	966	643
45°	1254	1223	1179	1148	1123	962
55°	1205	1174	1083	1052	1080	1054
65°	667	662	655	585	571	675
75°	302	286	250	285	288	332
85°	106	100	103	106	113	116
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	867.5	867.5	867.5	867.5	867.5
2.5°	866.7	867.5	868.2	869.0	869.0
5°	868.2	869.0	869.7	872.7	871.2
7.5°	869.0	869.7	872.0	876.5	876.5
10°	869.7	872.0	876.5	881.0	882.5
12.5°	872.7	875.0	881.0	886.9	888.4
15°	874.2	878.7	885.5	890.7	891.4
17.5°	879.5	884.0	891.4	893.7	893.7
20°	884.7	890.7	897.4	897.4	895.9
22.5°	894.4	901.2	906.4	901.9	898.9
25°	906.4	914.7	916.9	908.7	903.4
27.5°	923.7	934.2	931.2	919.9	913.2
30°	946.2	959.7	952.9	936.4	926.7
32.5°	976.2	992.7	981.4	960.4	945.4
35°	1013.7	1033.2	1022.7	988.2	966.4
37.5°	1060.1	1080.4	1067.6	1023.4	994.2
40°	1120.9	1131.4	1113.4	1065.4	1030.2
42.5°	1186.8	1181.6	1153.9	1109.6	1075.1
45°	1253.6	1222.8	1178.6	1147.9	1123.1
47.5°	1301.6	1244.6	1181.6	1165.9	1161.4
50°	1313.6	1240.1	1162.1	1156.1	1172.6
52.5°	1279.8	1216.1	1126.9	1116.4	1146.4
55°	1204.8	1174.1	1083.4	1051.9	1079.6
57.5°	1094.6	1092.4	1014.4	958.2	965.7
60°	954.4	963.4	912.4	833.0	828.5
62.5°	803.0	808.2	785.7	703.3	687.5
65°	667.3	662.0	655.3	584.8	571.3
67.5°	555.6	539.8	529.3	486.6	479.8
70°	461.1	436.4	415.4	408.6	401.9
72.5°	373.4	355.4	321.6	340.4	339.6
75°	302.1	285.7	250.4	284.9	287.9
77.5°	247.4	236.2	202.4	233.9	243.7
80°	209.9	186.7	170.2	190.4	203.2
82.5°	160.4	142.5	138.7	147.0	158.9
85°	106.5	99.7	102.7	105.7	113.2
87.5°	54.0	57.7	62.2	67.5	71.2
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	16.9	18.7	17.3	19.0	19.3	16.0	17.8	16.4	18.1	18.4
	3H	18.0	19.7	18.4	20.0	20.3	17.2	18.8	17.5	19.1	19.5
	4H	18.4	20.0	18.8	20.3	20.7	17.6	19.1	18.0	19.5	19.9
	6H	18.8	20.2	19.2	20.6	21.0	18.1	19.5	18.5	19.8	20.2
	8H	18.9	20.3	19.4	20.7	21.1	18.3	19.6	18.7	20.0	20.4
	12H	19.1	20.4	19.5	20.8	21.2	18.4	19.7	18.9	20.1	20.5
4H	2H	17.3	18.9	17.7	19.2	19.6	16.6	18.1	17.0	18.5	18.8
	3H	18.6	19.9	19.0	20.3	20.7	17.9	19.2	18.3	19.6	20.0
	4H	19.1	20.3	19.6	20.7	21.1	18.5	19.6	18.9	20.1	20.5
	6H	19.6	20.6	20.1	21.1	21.5	19.1	20.1	19.5	20.5	21.0
	8H	19.8	20.8	20.3	21.2	21.7	19.3	20.3	19.8	20.7	21.2
	12H	20.0	20.9	20.5	21.4	21.8	19.6	20.4	20.0	20.9	21.4
8H	4H	19.3	20.2	19.7	20.7	21.1	18.7	19.7	19.2	20.1	20.6
	6H	19.9	20.7	20.4	21.2	21.6	19.4	20.2	19.9	20.7	21.2
	8H	20.2	20.9	20.7	21.4	21.9	19.8	20.5	20.3	21.0	21.5
	12H	20.5	21.1	21.0	21.6	22.2	20.1	20.7	20.6	21.2	21.8
12H	4H	19.3	20.2	19.8	20.7	21.1	18.7	19.6	19.2	20.1	20.5
	6H	19.9	20.7	20.5	21.1	21.7	19.5	20.2	20.0	20.7	21.2
	8H	20.3	20.9	20.8	21.4	22.0	19.9	20.5	20.4	21.0	21.6













(END OF REPORT)