

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: P1526891

Luminaire Tested: 24CGTX-40HE-A125-L830

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1526891
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-L830
Description: CGTX with A125 Lens Option

Light Source:
Ballast/Driver: -

Summary

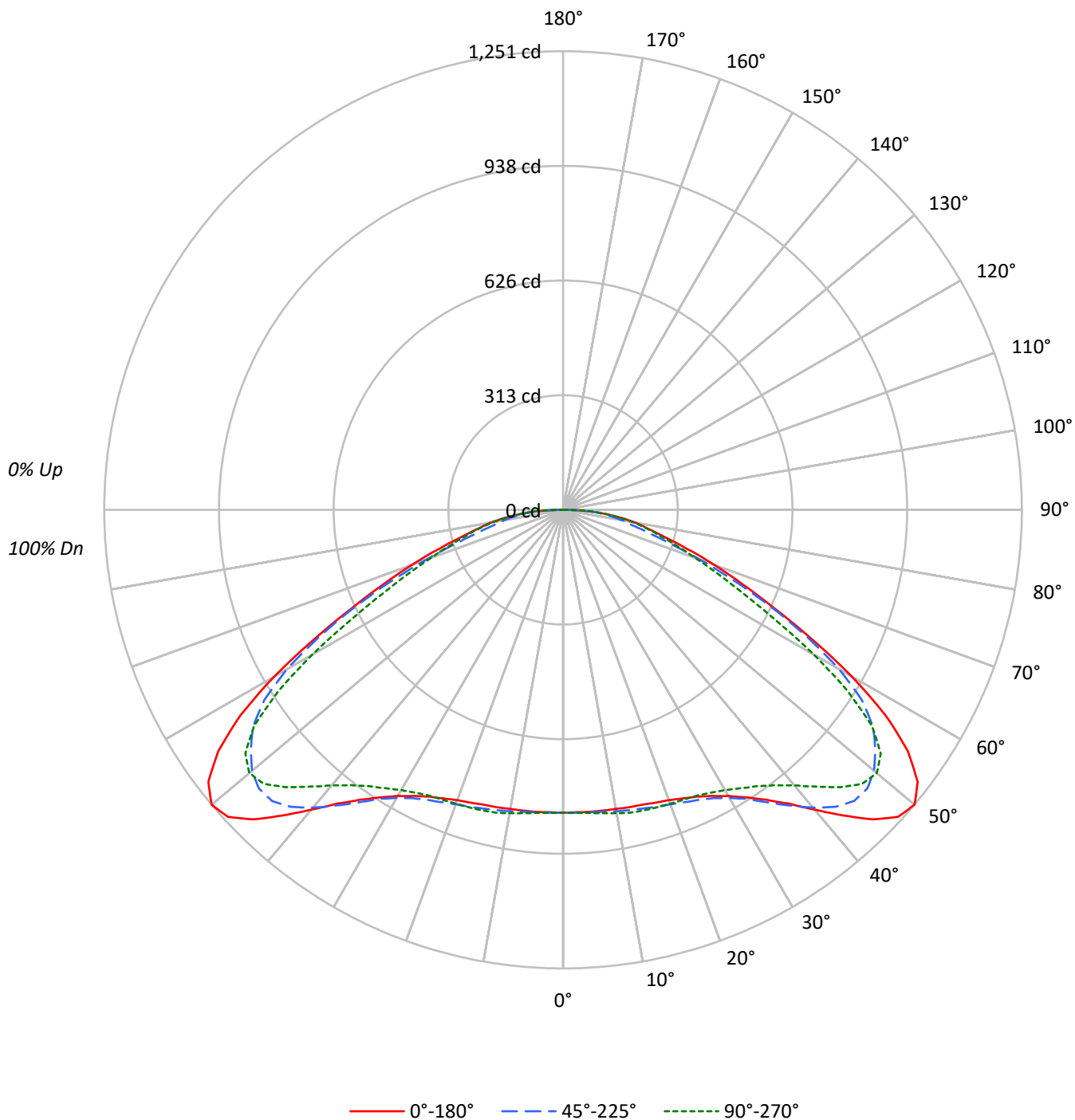
Lumens per Lamp: N/A
Luminaire Lumens: 4124.1 lumens
Efficiency: N/A
Efficacy: 137.9 lumens/watt
Spacing Criteria (0/90/45): 2.04 / 1.82 / 1.97
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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			
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°	1112	1112	1112
5°	1117	1119	1121
10°	1132	1140	1148
15°	1160	1175	1183
20°	1206	1224	1222
25°	1282	1296	1277
30°	1400	1410	1371
35°	1586	1600	1512
40°	1875	1862	1723
45°	2272	2136	2035
50°	2619	2317	2338
55°	2692	2420	2412
60°	2446	2338	2123
65°	2023	1987	1732
70°	1727	1556	1506
75°	1496	1240	1425
80°	1549	1256	1499
85°	1565	1510	1664

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 2694 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.3	1.9
10°-20°	239.1	5.8
20°-30°	403.9	9.8
30°-40°	608.0	14.7
40°-50°	864.6	21.0
50°-60°	927.9	22.5
60°-70°	604.7	14.7
70°-80°	290.8	7.1
80°-90°	105.8	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°	722.3	17.5
0°-40°	1330.3	32.3
0°-60°	3122.8	75.7
0°-90°	4124.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4124.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	826	826	826	826	826	
5°	827	828	828	831	830	79
15°	833	837	843	848	849	237
25°	863	871	873	865	860	402
35°	965	984	974	941	920	613
45°	1194	1165	1122	1093	1070	917
55°	1148	1118	1032	1002	1028	1004
65°	636	630	624	557	544	643
75°	288	272	238	271	274	316
85°	101	95	98	101	108	110
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	826.1	826.1	826.1	826.1	826.1
2.5°	825.4	826.1	826.9	827.6	827.6
5°	826.9	827.6	828.3	831.1	829.7
7.5°	827.6	828.3	830.4	834.7	834.7
10°	828.3	830.4	834.7	839.0	840.4
12.5°	831.1	833.3	839.0	844.7	846.1
15°	832.6	836.9	843.3	848.3	849.0
17.5°	837.6	841.9	849.0	851.1	851.1
20°	842.6	848.3	854.7	854.7	853.3
22.5°	851.9	858.3	863.3	859.0	856.1
25°	863.3	871.1	873.3	865.4	860.4
27.5°	879.7	889.7	886.8	876.1	869.7
30°	901.1	914.0	907.6	891.8	882.6
32.5°	929.7	945.4	934.7	914.7	900.4
35°	965.4	984.0	974.0	941.1	920.4
37.5°	1009.7	1028.9	1016.8	974.7	946.8
40°	1067.5	1077.5	1060.4	1014.7	981.1
42.5°	1130.3	1125.3	1098.9	1056.8	1023.9
45°	1193.9	1164.6	1122.5	1093.2	1069.6
47.5°	1239.6	1185.3	1125.3	1110.3	1106.1
50°	1251.0	1181.0	1106.8	1101.1	1116.8
52.5°	1218.9	1158.2	1073.2	1063.2	1091.8
55°	1147.5	1118.2	1031.8	1001.8	1028.2
57.5°	1042.5	1040.4	966.1	912.5	919.7
60°	909.0	917.5	869.0	793.3	789.0
62.5°	764.7	769.7	748.3	669.8	654.8
65°	635.5	630.5	624.1	557.0	544.1
67.5°	529.1	514.1	504.1	463.4	457.0
70°	439.1	415.6	395.6	389.2	382.7
72.5°	355.6	338.5	306.3	324.2	323.5
75°	287.8	272.1	238.5	271.3	274.2
77.5°	235.6	224.9	192.8	222.8	232.1
80°	199.9	177.8	162.1	181.4	193.5
82.5°	152.8	135.7	132.1	140.0	151.4
85°	101.4	95.0	97.8	100.7	107.8
87.5°	51.4	55.0	59.3	64.3	67.8
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	16.8	18.5	17.1	18.9	19.2	15.9	17.6	16.2	17.9	18.3
	3H	17.9	19.5	18.2	19.8	20.2	17.0	18.6	17.4	18.9	19.3
	4H	18.3	19.8	18.7	20.1	20.5	17.5	19.0	17.8	19.3	19.7
	6H	18.6	20.0	19.0	20.4	20.8	17.9	19.3	18.3	19.7	20.1
	8H	18.8	20.1	19.2	20.5	20.9	18.1	19.4	18.5	19.8	20.2
	12H	18.9	20.2	19.3	20.6	21.0	18.3	19.6	18.7	19.9	20.4
4H	2H	17.2	18.7	17.6	19.0	19.4	16.4	17.9	16.8	18.3	18.7
	3H	18.5	19.7	18.9	20.1	20.5	17.7	19.0	18.1	19.4	19.8
	4H	19.0	20.1	19.4	20.5	21.0	18.3	19.5	18.7	19.9	20.3
	6H	19.4	20.5	19.9	20.9	21.4	18.9	19.9	19.3	20.4	20.8
	8H	19.7	20.6	20.1	21.1	21.5	19.2	20.1	19.6	20.5	21.0
	12H	19.9	20.7	20.3	21.2	21.7	19.4	20.3	19.9	20.7	21.2
8H	4H	19.1	20.1	19.6	20.5	21.0	18.5	19.5	19.0	19.9	20.4
	6H	19.7	20.5	20.2	21.0	21.5	19.2	20.0	19.7	20.5	21.0
	8H	20.0	20.7	20.5	21.2	21.7	19.6	20.3	20.1	20.8	21.3
	12H	20.3	20.9	20.8	21.4	22.0	19.9	20.6	20.4	21.1	21.6
12H	4H	19.1	20.0	19.6	20.5	20.9	18.6	19.4	19.0	19.9	20.4
	6H	19.8	20.5	20.3	21.0	21.5	19.3	20.0	19.8	20.5	21.0
	8H	20.1	20.8	20.6	21.3	21.8	19.7	20.3	20.2	20.8	21.4















(END OF REPORT)