

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: P1526860

Luminaire Tested: 24CGTX-20HE-A125-L840

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1526860
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-20HE-A125-L840
Description: CGTX with A125 Lens Option

Light Source:
Ballast/Driver: -

Summary

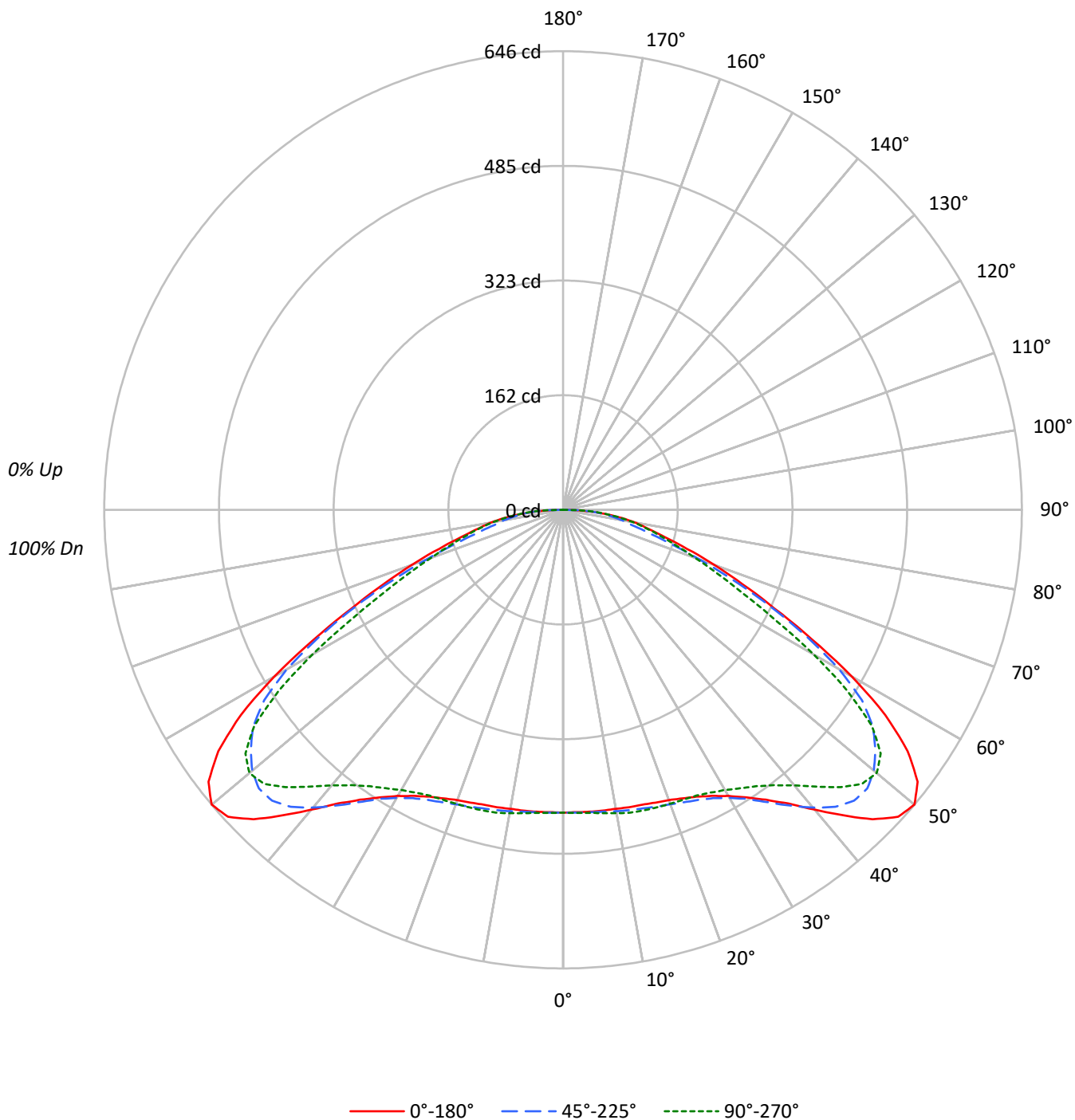
Lumens per Lamp: N/A
Luminaire Lumens: 2129.2 lumens
Efficiency: N/A
Efficacy: 142.9 lumens/watt
Spacing Criteria (0/90/45): 2.04 / 1.82 / 1.97
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 14.9
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

TEST NUMBER: P1526860

CATALOG NUMBER: 24CGTX-20HE-A125-L840

Luminous Intensity Polar Plot



TEST NUMBER: P1526860

CATALOG NUMBER: 24CGTX-20HE-A125-L840

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°	574	574	574
5°	577	578	579
10°	584	589	593
15°	599	606	611
20°	623	632	631
25°	662	669	659
30°	723	728	708
35°	819	826	781
40°	968	962	890
45°	1173	1103	1051
50°	1352	1196	1207
55°	1390	1250	1245
60°	1263	1207	1096
65°	1045	1026	894
70°	892	803	777
75°	773	640	736
80°	800	649	774
85°	809	780	860

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 1391 cd/sqm

TEST NUMBER: P1526860

CATALOG NUMBER: 24CGTX-20HE-A125-L840

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.9	1.9
10°-20°	123.5	5.8
20°-30°	208.5	9.8
30°-40°	313.9	14.7
40°-50°	446.4	21.0
50°-60°	479.1	22.5
60°-70°	312.2	14.7
70°-80°	150.1	7.0
80°-90°	54.6	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°	372.9	17.5
0°-40°	686.9	32.3
0°-60°	1612.3	75.7
0°-90°	2129.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2129.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	426	426	426	426	426	
5°	427	427	428	429	428	41
15°	430	432	435	438	438	122
25°	446	450	451	447	444	208
35°	498	508	503	486	475	316
45°	616	601	580	564	552	473
55°	592	577	533	517	531	518
65°	328	326	322	288	281	332
75°	149	140	123	140	142	163
85°	52	49	50	52	56	57
90°	0	0	0	0	0	

TEST NUMBER: P1526860

CATALOG NUMBER: 24CGTX-20HE-A125-L840

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	426.5	426.5	426.5	426.5	426.5
2.5°	426.2	426.5	426.9	427.3	427.3
5°	426.9	427.3	427.6	429.1	428.4
7.5°	427.3	427.6	428.8	431.0	431.0
10°	427.6	428.8	431.0	433.2	433.9
12.5°	429.1	430.2	433.2	436.1	436.9
15°	429.9	432.1	435.4	438.0	438.3
17.5°	432.4	434.7	438.3	439.4	439.4
20°	435.0	438.0	441.3	441.3	440.6
22.5°	439.8	443.1	445.7	443.5	442.0
25°	445.7	449.8	450.9	446.8	444.2
27.5°	454.2	459.4	457.9	452.3	449.0
30°	465.3	471.9	468.6	460.5	455.7
32.5°	480.0	488.1	482.6	472.3	464.9
35°	498.4	508.0	502.9	485.9	475.2
37.5°	521.3	531.2	525.0	503.2	488.8
40°	551.2	556.3	547.5	523.9	506.5
42.5°	583.6	581.0	567.4	545.6	528.7
45°	616.4	601.3	579.5	564.4	552.3
47.5°	640.0	612.0	581.0	573.3	571.1
50°	645.9	609.8	571.4	568.5	576.6
52.5°	629.3	598.0	554.1	548.9	563.7
55°	592.4	577.3	532.7	517.2	530.9
57.5°	538.2	537.1	498.8	471.2	474.8
60°	469.3	473.7	448.7	409.6	407.4
62.5°	394.8	397.4	386.4	345.8	338.1
65°	328.1	325.5	322.2	287.6	280.9
67.5°	273.2	265.4	260.3	239.3	235.9
70°	226.7	214.6	204.2	200.9	197.6
72.5°	183.6	174.7	158.2	167.4	167.0
75°	148.6	140.5	123.1	140.1	141.6
77.5°	121.7	116.1	99.5	115.0	119.8
80°	103.2	91.8	83.7	93.6	99.9
82.5°	78.9	70.0	68.2	72.3	78.2
85°	52.4	49.0	50.5	52.0	55.7
87.5°	26.5	28.4	30.6	33.2	35.0
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1526860

CATALOG NUMBER: 24CGTX-20HE-A125-L840

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	14.5	16.2	14.8	16.6	16.9	13.6	15.3	13.9	15.7	16.0
	3H	15.6	17.2	15.9	17.5	17.9	14.7	16.3	15.1	16.6	17.0
	4H	16.0	17.5	16.4	17.8	18.2	15.2	16.7	15.6	17.0	17.4
	6H	16.3	17.7	16.7	18.1	18.5	15.6	17.0	16.0	17.4	17.8
	8H	16.5	17.8	16.9	18.2	18.6	15.8	17.1	16.2	17.5	17.9
	12H	16.6	17.9	17.0	18.3	18.7	16.0	17.3	16.4	17.7	18.1
4H	2H	14.9	16.4	15.3	16.7	17.1	14.1	15.6	14.5	16.0	16.4
	3H	16.2	17.4	16.6	17.8	18.2	15.4	16.7	15.8	17.1	17.5
	4H	16.7	17.8	17.1	18.2	18.7	16.0	17.2	16.4	17.6	18.0
	6H	17.2	18.2	17.6	18.6	19.1	16.6	17.6	17.0	18.1	18.5
	8H	17.4	18.3	17.8	18.8	19.2	16.9	17.8	17.3	18.3	18.7
	12H	17.6	18.4	18.0	18.9	19.4	17.1	18.0	17.6	18.4	18.9
8H	4H	16.8	17.8	17.3	18.2	18.7	16.2	17.2	16.7	17.6	18.1
	6H	17.4	18.2	17.9	18.7	19.2	16.9	17.7	17.4	18.2	18.7
	8H	17.7	18.4	18.2	18.9	19.4	17.3	18.0	17.8	18.5	19.0
	12H	18.0	18.7	18.5	19.1	19.7	17.6	18.3	18.1	18.8	19.3
12H	4H	16.8	17.7	17.3	18.2	18.7	16.3	17.1	16.7	17.6	18.1
	6H	17.5	18.2	18.0	18.7	19.2	17.0	17.7	17.5	18.2	18.7
	8H	17.8	18.5	18.3	19.0	19.5	17.4	18.0	17.9	18.5	19.1



Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report











(END OF REPORT)