

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: P1527081

Luminaire Tested: 24CGTX-20HE-F125-L940

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1527081
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2507-496-1)
Test Lab: INNOVATION CENTER
Issue Date: 8/24/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 24CGTX-20HE-F125-L940
Description: CGTX with F125 Lens Option

Light Source:
Ballast/Driver: -

Summary

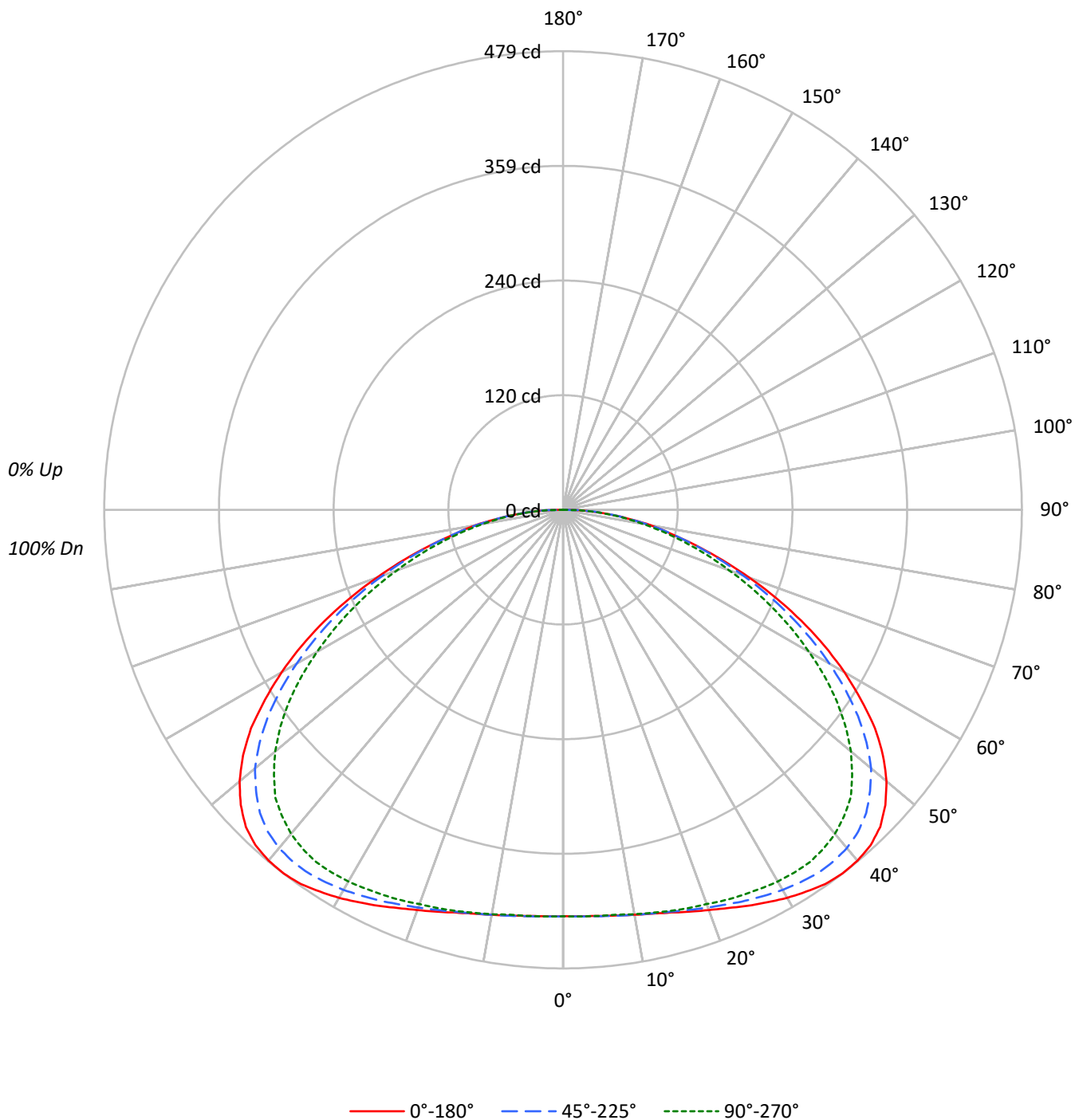
Lumens per Lamp: N/A
Luminaire Lumens: 1795.0 lumens
Efficiency: N/A
Efficacy: 120.5 lumens/watt
Spacing Criteria (0/90/45): 1.69 / 1.6 / 1.72
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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: P1527081

CATALOG NUMBER: 24CGTX-20HE-F125-L940

Luminous Intensity Polar Plot



TEST NUMBER: P1527081

CATALOG NUMBER: 24CGTX-20HE-F125-L940

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	108	102	98	94	105	100	96	92	96	92	89		92	89	86		88
2	97	88	81	74	94	86	79	74	83	77	72		79	74	70		76
3	88	76	68	61	85	75	67	60	72	65	59		69	63	58		66
4	80	67	57	50	77	66	57	50	63	55	49		61	54	48		58
5	73	59	50	43	71	58	49	42	56	48	42		54	47	41		52
6	67	53	43	36	65	52	43	36	50	42	36		48	41	36		47
7	62	47	38	32	60	47	38	32	45	37	31		44	36	31		42
8	57	43	34	28	56	42	34	28	41	33	28		40	33	27		38
9	53	39	31	25	52	39	30	25	37	30	25		36	29	24		35
10	50	36	28	22	48	35	27	22	34	27	22		33	27	22		33

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	571	571	571
5°	575	575	575
10°	587	587	586
15°	606	605	604
20°	637	633	627
25°	678	669	659
30°	727	712	696
35°	784	761	738
40°	840	810	776
45°	891	852	808
50°	923	879	821
55°	933	882	819
60°	913	864	798
65°	874	832	766
70°	814	787	725
75°	745	740	687
80°	723	708	657
85°	672	701	658

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 55°

Luminance: 933 cd/sqm

TEST NUMBER: P1527081

CATALOG NUMBER: 24CGTX-20HE-F125-L940

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.8	2.3
10°-20°	123.5	6.9
20°-30°	208.6	11.6
30°-40°	290.1	16.2
40°-50°	343.4	19.1
50°-60°	333.2	18.6
60°-70°	256.7	14.3
70°-80°	149.8	8.3
80°-90°	49.0	2.7
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°	372.8	20.8
0°-40°	662.9	36.9
0°-60°	1339.5	74.6
0°-90°	1795.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1795.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	424	424	424	424	424	
5°	426	426	426	426	426	41
15°	435	435	434	434	434	124
25°	456	454	450	446	444	211
35°	477	473	463	454	449	299
45°	468	462	448	432	425	360
55°	398	391	376	358	349	353
65°	274	271	261	248	241	271
75°	143	147	142	136	132	154
85°	44	46	45	44	43	49
90°	0	0	0	0	0	

TEST NUMBER: P1527081

CATALOG NUMBER: 24CGTX-20HE-F125-L940

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	424.5	424.5	424.5	424.5	424.5
2.5°	424.8	425.1	425.1	425.1	425.1
5°	425.7	426.0	426.0	426.0	425.7
7.5°	427.3	427.3	427.6	427.3	426.4
10°	429.5	429.5	429.5	429.2	428.9
12.5°	432.0	432.3	431.7	431.4	431.0
15°	435.4	435.4	434.5	433.6	433.6
17.5°	440.1	439.5	438.2	436.7	436.1
20°	444.8	444.2	442.0	439.5	438.2
22.5°	450.1	448.9	446.1	442.6	441.4
25°	456.4	454.5	450.5	445.8	443.9
27.5°	462.0	459.5	454.5	449.2	446.1
30°	468.0	464.9	458.3	451.4	448.3
32.5°	472.7	469.6	461.1	453.3	449.2
35°	477.1	473.0	463.3	453.6	449.2
37.5°	478.9	474.6	463.3	452.0	446.4
40°	478.3	473.6	461.1	448.3	441.7
42.5°	475.2	469.6	456.1	441.7	434.2
45°	468.3	462.0	447.6	432.3	424.8
47.5°	456.4	450.1	434.8	418.5	409.4
50°	440.8	434.2	419.8	401.6	392.2
52.5°	421.0	414.5	399.4	381.0	371.9
55°	397.6	390.7	376.0	358.4	349.0
57.5°	368.8	363.7	349.3	332.8	323.7
60°	339.3	334.3	321.2	305.5	296.4
62.5°	307.7	303.6	291.7	277.0	269.2
65°	274.5	271.4	261.4	247.9	240.7
67.5°	240.7	239.5	230.4	218.8	212.6
70°	206.9	207.5	200.0	189.7	184.4
72.5°	174.0	176.2	170.3	161.8	158.1
75°	143.4	146.8	142.4	135.9	132.1
77.5°	114.9	119.6	115.8	110.8	107.7
80°	93.3	93.0	91.4	87.6	84.8
82.5°	67.0	68.2	67.3	65.1	63.5
85°	43.5	45.7	45.4	44.5	42.6
87.5°	21.6	24.1	24.4	23.8	22.9
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1527081

CATALOG NUMBER: 24CGTX-20HE-F125-L940

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	12.4	14.2	12.8	14.5	14.8	11.8	13.5	12.1	13.8	14.1
	3H	14.3	15.8	14.6	16.2	16.5	13.6	15.1	13.9	15.5	15.8
	4H	14.9	16.4	15.3	16.8	17.1	14.3	15.7	14.7	16.1	16.5
	6H	15.5	16.8	15.9	17.2	17.6	14.8	16.2	15.2	16.6	16.9
	8H	15.7	17.0	16.1	17.4	17.8	15.0	16.3	15.4	16.7	17.1
	12H	15.8	17.1	16.2	17.5	17.9	15.2	16.5	15.6	16.8	17.3
4H	2H	13.0	14.5	13.4	14.9	15.3	12.5	14.0	12.9	14.4	14.7
	3H	15.1	16.4	15.5	16.7	17.1	14.5	15.8	14.9	16.2	16.6
	4H	15.9	17.1	16.3	17.5	17.9	15.3	16.5	15.8	16.9	17.3
	6H	16.6	17.6	17.0	18.0	18.5	16.0	17.0	16.5	17.5	17.9
	8H	16.8	17.8	17.3	18.2	18.7	16.3	17.2	16.8	17.7	18.1
	12H	17.0	17.9	17.5	18.4	18.8	16.5	17.4	17.0	17.8	18.3
8H	4H	16.2	17.2	16.7	17.6	18.1	15.7	16.7	16.2	17.1	17.6
	6H	17.0	17.8	17.5	18.3	18.8	16.6	17.3	17.0	17.8	18.3
	8H	17.4	18.1	17.9	18.6	19.1	16.9	17.6	17.4	18.1	18.6
	12H	17.7	18.3	18.2	18.8	19.4	17.2	17.9	17.7	18.4	18.9
12H	4H	16.3	17.1	16.7	17.6	18.1	15.8	16.6	16.3	17.1	17.6
	6H	17.1	17.8	17.6	18.3	18.8	16.7	17.4	17.2	17.8	18.4
	8H	17.5	18.2	18.0	18.6	19.2	17.1	17.7	17.6	18.2	18.7













(END OF REPORT)