

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: P1527005

Luminaire Tested: 22CGTX-20-F125-L830

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1527005
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2507-496-2)
Test Lab: INNOVATION CENTER
Issue Date: 8/24/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 22CGTX-20-F125-L830
Description: CGTX with F125 Lens Option

Light Source:
Ballast/Driver: -

Summary

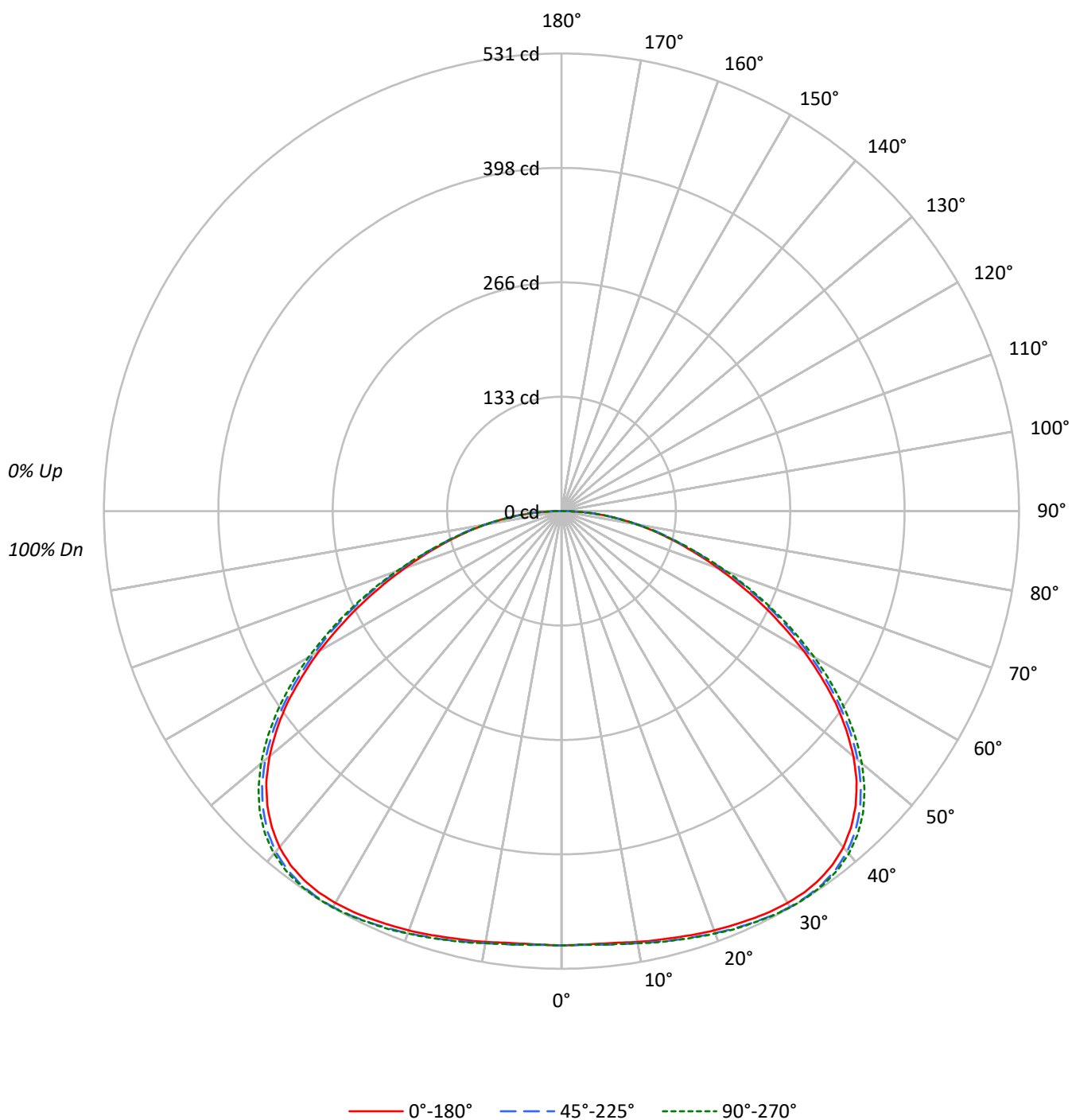
Lumens per Lamp: N/A
Luminaire Lumens: 1956.0 lumens
Efficiency: N/A
Efficacy: 129.5 lumens/watt
Spacing Criteria (0/90/45): 1.56 / 1.58 / 1.65
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 15.1
Input Voltage (V):
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.9
Total Harmonic Distortion (THDi): ≈20%
Frequency (hertz): 60
Stabilization Time: HR
Operation Time: HR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P1527005

CATALOG NUMBER: 22CGTX-20-F125-L830

Luminous Intensity Polar Plot



TEST NUMBER: P1527005

CATALOG NUMBER: 22CGTX-20-F125-L830

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	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	103	98	94	105	101	97	93	96	93	90	92	90	87	89	87	84	82			
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67			
3	89	77	69	62	86	76	68	61	73	66	60	70	64	59	67	62	58	56			
4	81	68	59	52	78	67	58	51	64	57	51	62	55	50	59	54	49	47			
5	74	60	51	44	72	59	50	44	57	49	43	55	48	43	53	47	42	40			
6	68	54	45	38	66	53	44	38	51	43	37	49	42	37	48	41	37	34			
7	63	49	39	33	61	48	39	33	46	38	33	45	38	32	43	37	32	30			
8	58	44	35	29	57	43	35	29	42	34	29	41	34	29	39	33	28	26			
9	54	40	32	26	53	40	31	26	38	31	26	37	30	26	36	30	25	24			
10	51	37	29	23	49	36	29	23	35	28	23	34	28	23	34	27	23	21			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1356	1356	1356
5°	1361	1364	1364
10°	1387	1391	1391
15°	1427	1435	1435
20°	1483	1492	1493
25°	1550	1564	1565
30°	1631	1648	1650
35°	1714	1735	1739
40°	1788	1812	1823
45°	1838	1864	1883
50°	1851	1879	1906
55°	1823	1851	1885
60°	1747	1785	1823
65°	1638	1698	1726
70°	1522	1579	1596
75°	1429	1467	1467
80°	1381	1398	1387
85°	1340	1386	1340

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 50°

Luminance: 1906 cd/sqm

TEST NUMBER: P1527005

CATALOG NUMBER: 22CGTX-20-F125-L830

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.3	2.5
10°-20°	146.0	7.5
20°-30°	243.4	12.4
30°-40°	329.7	16.9
40°-50°	376.0	19.2
50°-60°	351.5	18.0
60°-70°	262.5	13.4
70°-80°	149.9	7.7
80°-90°	48.6	2.5
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°	437.7	22.4
0°-40°	767.4	39.2
0°-60°	1495.0	76.4
0°-90°	1956.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1956.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	504	504	504	504	504	
5°	504	505	505	505	505	48
15°	512	514	515	516	515	145
25°	522	524	527	528	527	242
35°	522	524	528	530	529	327
45°	483	485	490	493	495	371
55°	389	390	395	399	402	346
65°	257	261	267	268	271	255
75°	137	140	141	142	141	147
85°	43	45	45	44	43	48
90°	0	0	0	0	0	

TEST NUMBER: P1527005

CATALOG NUMBER: 22CGTX-20-F125-L830

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	503.9	503.9	503.9	503.9	503.9
2.5°	503.5	503.9	503.9	504.7	503.5
5°	503.9	504.7	505.0	505.4	505.0
7.5°	505.0	506.1	506.9	507.3	506.5
10°	507.6	508.4	509.1	509.9	509.1
12.5°	509.9	511.0	511.8	512.9	512.5
15°	512.1	513.6	515.1	515.5	515.1
17.5°	515.1	516.3	517.8	518.5	518.5
20°	517.8	519.3	521.1	521.9	521.5
22.5°	520.0	521.9	524.1	525.2	524.9
25°	522.2	524.1	526.7	527.5	527.1
27.5°	524.1	526.4	529.0	530.1	529.4
30°	524.9	527.1	530.5	531.2	530.9
32.5°	524.5	526.7	530.1	531.2	530.9
35°	521.9	524.5	528.2	529.7	529.4
37.5°	517.0	519.6	523.4	525.2	525.6
40°	509.1	511.8	515.9	518.5	518.9
42.5°	497.5	500.2	504.7	507.6	508.8
45°	482.9	485.2	489.7	493.0	494.9
47.5°	464.6	466.5	471.3	475.1	476.9
50°	442.1	444.0	448.9	452.6	455.2
52.5°	416.7	418.2	423.0	427.5	429.8
55°	388.6	389.7	394.6	399.1	401.7
57.5°	356.8	360.1	363.9	368.0	371.0
60°	324.6	327.2	331.7	335.8	338.8
62.5°	290.1	295.0	300.2	302.5	305.1
65°	257.2	260.9	266.6	268.0	271.0
67.5°	224.6	228.7	233.6	234.7	236.6
70°	193.5	196.9	200.7	202.2	202.9
72.5°	164.3	167.0	169.6	170.7	170.7
75°	137.4	139.6	141.1	141.5	141.1
77.5°	113.1	113.4	116.8	114.6	114.2
80°	89.1	89.1	90.2	90.2	89.5
82.5°	65.9	67.4	67.0	66.6	65.5
85°	43.4	45.3	44.9	44.2	43.4
87.5°	21.3	23.6	22.5	23.6	21.7
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1527005

CATALOG NUMBER: 22CGTX-20-F125-L830

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	14.9	16.5	16.8	14.7	16.4	15.0	16.7	17.0
	3H	16.2	17.7	16.6	18.1	18.4	16.4	17.9	16.8	18.3	18.6
	4H	16.8	18.3	17.2	18.6	19.0	17.0	18.5	17.4	18.8	19.2
	6H	17.4	18.7	17.8	19.1	19.5	17.5	18.9	17.9	19.3	19.6
	8H	17.6	18.9	18.0	19.2	19.6	17.7	19.0	18.1	19.4	19.8
	12H	17.7	19.0	18.1	19.3	19.8	17.9	19.1	18.3	19.5	19.9
4H	2H	15.1	16.6	15.5	16.9	17.3	15.3	16.7	15.7	17.1	17.5
	3H	17.0	18.3	17.5	18.7	19.1	17.2	18.5	17.6	18.8	19.2
	4H	17.8	18.9	18.3	19.4	19.8	18.0	19.1	18.4	19.5	20.0
	6H	18.5	19.5	18.9	19.9	20.4	18.6	19.6	19.1	20.1	20.5
	8H	18.8	19.7	19.2	20.1	20.6	18.9	19.8	19.3	20.2	20.7
	12H	19.0	19.8	19.4	20.3	20.7	19.1	19.9	19.6	20.4	20.9
8H	4H	18.2	19.1	18.6	19.5	20.0	18.3	19.2	18.8	19.7	20.1
	6H	19.0	19.7	19.5	20.2	20.7	19.1	19.9	19.6	20.4	20.8
	8H	19.3	20.0	19.8	20.5	21.0	19.4	20.1	19.9	20.6	21.1
	12H	19.6	20.2	20.1	20.7	21.3	19.7	20.3	20.2	20.8	21.4
12H	4H	18.2	19.0	18.7	19.5	20.0	18.4	19.2	18.8	19.7	20.1
	6H	19.1	19.8	19.6	20.2	20.7	19.2	19.9	19.7	20.3	20.9
	8H	19.5	20.1	20.0	20.6	21.1	19.6	20.2	20.1	20.7	21.2















(END OF REPORT)