

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: P1527012

Luminaire Tested: 22CGTX-20HE-F125-L850

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1527012
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-20HE-F125-L850
Description: CGTX with F125 Lens Option

Light Source:
Ballast/Driver: -

Summary

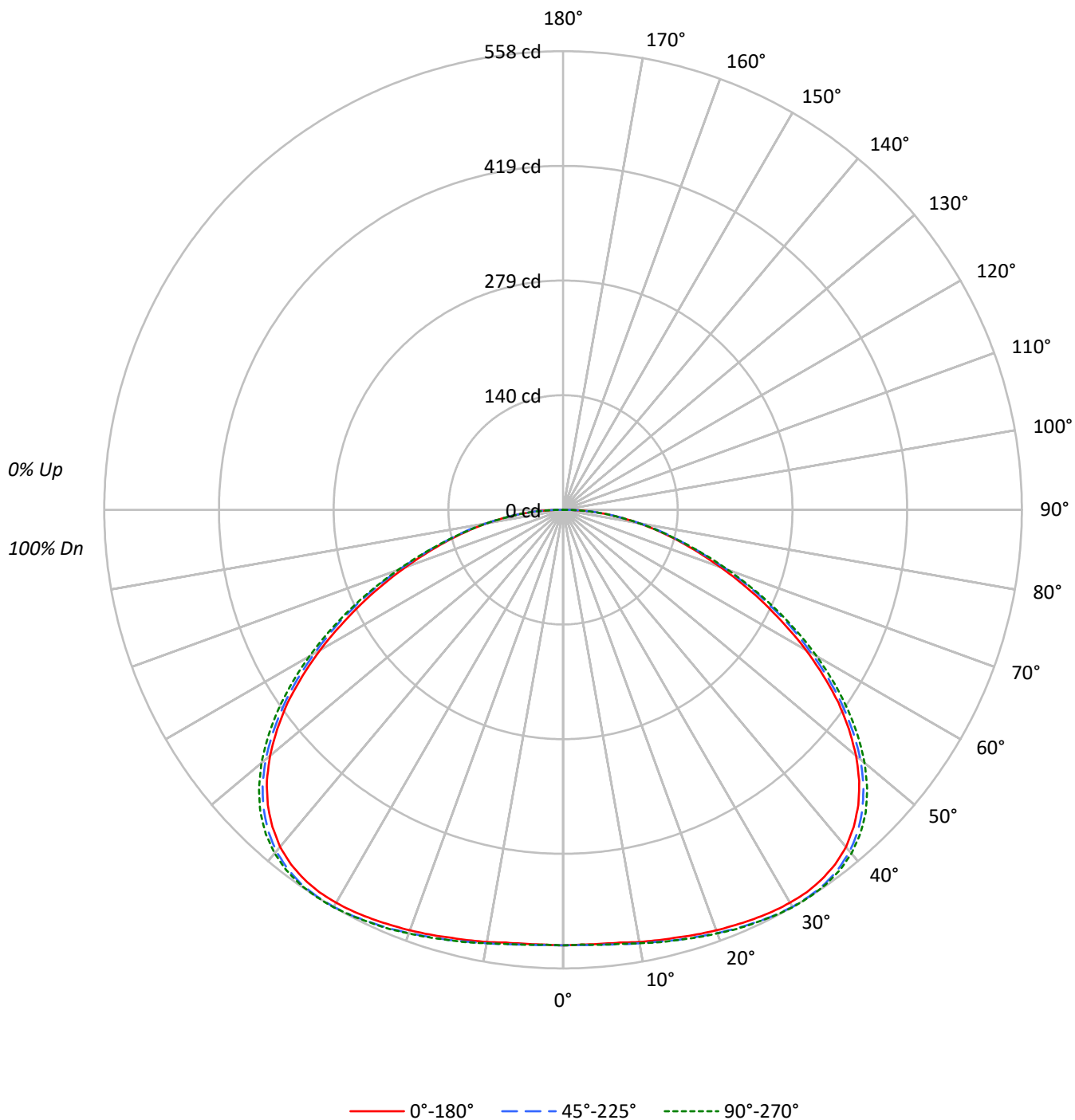
Lumens per Lamp: N/A
Luminaire Lumens: 2057.0 lumens
Efficiency: N/A
Efficacy: 139.0 lumens/watt
Spacing Criteria (0/90/45): 1.56 / 1.58 / 1.65
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 14.8
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: P1527012

CATALOG NUMBER: 22CGTX-20HE-F125-L850

Luminous Intensity Polar Plot



TEST NUMBER: P1527012

CATALOG NUMBER: 22CGTX-20HE-F125-L850

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	30	10	50	30	10
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°	1426	1426	1426
5°	1431	1435	1435
10°	1459	1463	1463
15°	1500	1509	1509
20°	1559	1569	1570
25°	1631	1645	1646
30°	1715	1734	1735
35°	1803	1825	1829
40°	1881	1906	1917
45°	1933	1960	1981
50°	1947	1976	2004
55°	1917	1947	1982
60°	1837	1877	1918
65°	1722	1785	1815
70°	1601	1660	1679
75°	1502	1543	1543
80°	1452	1471	1458
85°	1411	1457	1411

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 50°

Luminance: 2004 cd/sqm

TEST NUMBER: P1527012

CATALOG NUMBER: 22CGTX-20HE-F125-L850

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.8	2.5
10°-20°	153.6	7.5
20°-30°	255.9	12.4
30°-40°	346.7	16.9
40°-50°	395.5	19.2
50°-60°	369.7	18.0
60°-70°	276.1	13.4
70°-80°	157.6	7.7
80°-90°	51.2	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°	460.3	22.4
0°-40°	807.1	39.2
0°-60°	1572.2	76.4
0°-90°	2057.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2057.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	530	530	530	530	530	
5°	530	531	531	532	531	51
15°	539	540	542	542	542	153
25°	549	551	554	555	554	254
35°	549	552	556	557	557	343
45°	508	510	515	518	520	390
55°	409	410	415	420	422	363
65°	270	274	280	282	285	268
75°	144	147	148	149	148	154
85°	46	48	47	46	46	50
90°	0	0	0	0	0	

TEST NUMBER: P1527012

CATALOG NUMBER: 22CGTX-20HE-F125-L850

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	529.9	529.9	529.9	529.9	529.9
2.5°	529.5	529.9	529.9	530.7	529.5
5°	529.9	530.7	531.1	531.5	531.1
7.5°	531.1	532.3	533.1	533.5	532.7
10°	533.9	534.6	535.4	536.2	535.4
12.5°	536.2	537.4	538.2	539.4	539.0
15°	538.6	540.2	541.7	542.1	541.7
17.5°	541.7	542.9	544.5	545.3	545.3
20°	544.5	546.1	548.0	548.8	548.4
22.5°	546.9	548.8	551.2	552.4	552.0
25°	549.2	551.2	553.9	554.7	554.3
27.5°	551.2	553.5	556.3	557.5	556.7
30°	552.0	554.3	557.9	558.7	558.3
32.5°	551.6	553.9	557.5	558.7	558.3
35°	548.8	551.6	555.5	557.1	556.7
37.5°	543.7	546.5	550.4	552.4	552.8
40°	535.4	538.2	542.5	545.3	545.7
42.5°	523.2	526.0	530.7	533.9	535.0
45°	507.9	510.2	515.0	518.5	520.5
47.5°	488.6	490.6	495.7	499.6	501.6
50°	465.0	466.9	472.0	476.0	478.7
52.5°	438.2	439.8	444.9	449.6	452.0
55°	408.7	409.8	415.0	419.7	422.4
57.5°	375.2	378.7	382.7	387.0	390.2
60°	341.3	344.1	348.8	353.2	356.3
62.5°	305.1	310.2	315.7	318.1	320.9
65°	270.5	274.4	280.3	281.9	285.0
67.5°	236.2	240.6	245.7	246.9	248.8
70°	203.5	207.1	211.0	212.6	213.4
72.5°	172.8	175.6	178.3	179.5	179.5
75°	144.5	146.9	148.4	148.8	148.4
77.5°	118.9	119.3	122.8	120.5	120.1
80°	93.7	93.7	94.9	94.9	94.1
82.5°	69.3	70.9	70.5	70.1	68.9
85°	45.7	47.6	47.2	46.5	45.7
87.5°	22.4	24.8	23.6	24.8	22.8
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1527012

CATALOG NUMBER: 22CGTX-20HE-F125-L850

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	14.7	16.4	15.0	16.7	17.0	14.8	16.5	15.2	16.9	17.2
	3H	16.4	17.9	16.7	18.2	18.6	16.6	18.1	16.9	18.4	18.8
	4H	17.0	18.5	17.4	18.8	19.2	17.2	18.7	17.6	19.0	19.4
	6H	17.5	18.9	17.9	19.3	19.6	17.7	19.1	18.1	19.4	19.8
	8H	17.7	19.0	18.2	19.4	19.8	17.9	19.2	18.3	19.6	20.0
	12H	17.9	19.1	18.3	19.5	19.9	18.0	19.3	18.5	19.7	20.1
4H	2H	15.3	16.8	15.7	17.1	17.5	15.4	16.9	15.8	17.3	17.6
	3H	17.2	18.5	17.6	18.8	19.2	17.4	18.6	17.8	19.0	19.4
	4H	18.0	19.1	18.4	19.5	20.0	18.2	19.3	18.6	19.7	20.1
	6H	18.7	19.6	19.1	20.1	20.5	18.8	19.8	19.3	20.2	20.7
	8H	18.9	19.8	19.4	20.3	20.7	19.1	20.0	19.5	20.4	20.9
	12H	19.1	20.0	19.6	20.4	20.9	19.3	20.1	19.7	20.6	21.0
8H	4H	18.3	19.3	18.8	19.7	20.2	18.5	19.4	18.9	19.8	20.3
	6H	19.1	19.9	19.6	20.4	20.9	19.3	20.0	19.8	20.5	21.0
	8H	19.5	20.2	20.0	20.7	21.2	19.6	20.3	20.1	20.8	21.3
	12H	19.8	20.4	20.3	20.9	21.5	19.9	20.5	20.4	21.0	21.6
12H	4H	18.4	19.2	18.9	19.7	20.2	18.5	19.4	19.0	19.8	20.3
	6H	19.2	19.9	19.8	20.4	20.9	19.4	20.1	19.9	20.5	21.0
	8H	19.6	20.3	20.1	20.7	21.3	19.7	20.4	20.2	20.8	21.4











(END OF REPORT)