

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: P1526964

Luminaire Tested: 14CGTX-20HE-F125-L850

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1526964
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2507-496-3)
Test Lab: INNOVATION CENTER
Issue Date: 8/24/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CGTX-20HE-F125-L850
Description: CGTX with F125 Lens Option

Light Source:
Ballast/Driver: -

Summary

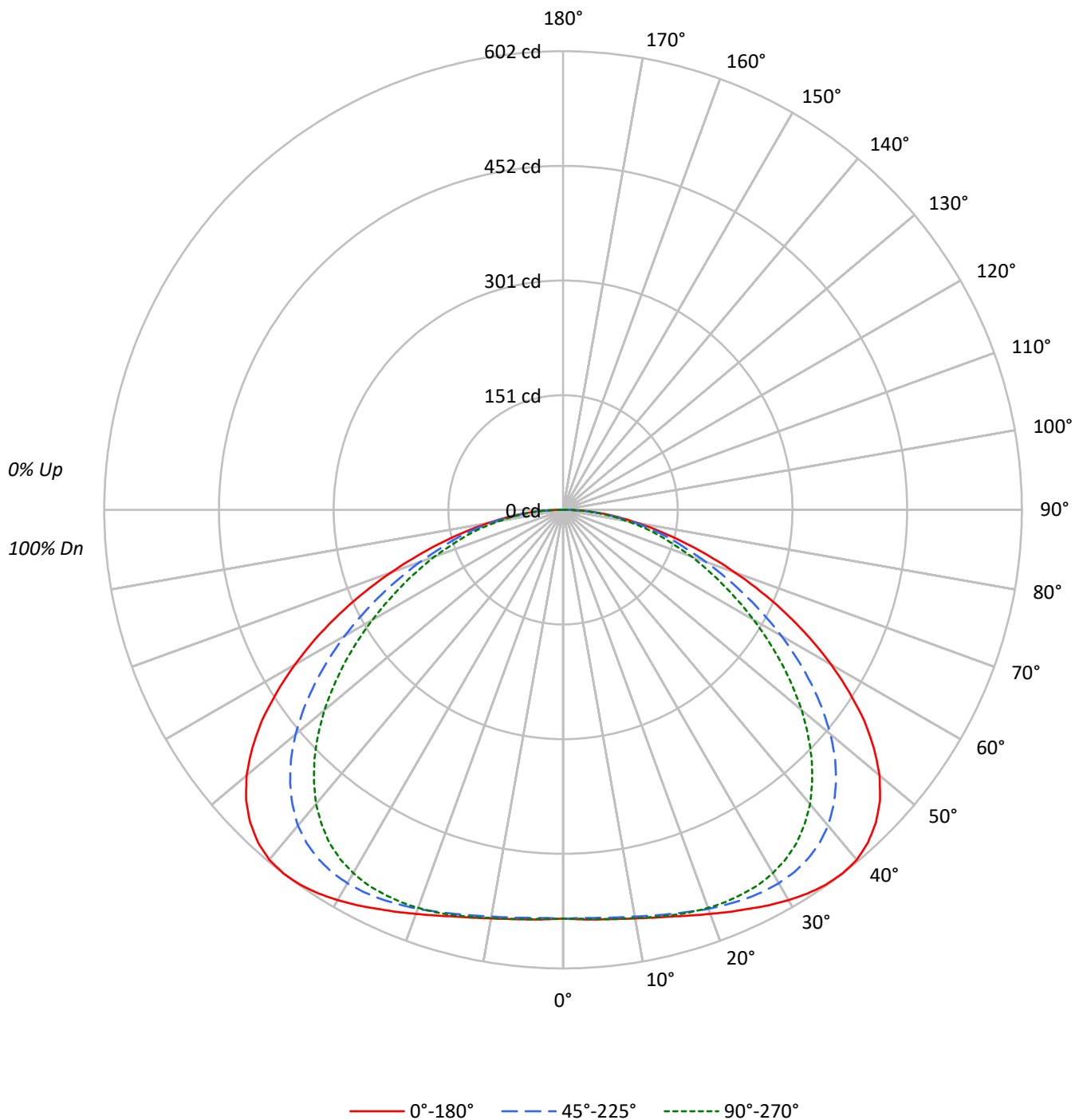
Lumens per Lamp: N/A
Luminaire Lumens: 2056.0 lumens
Efficiency: N/A
Efficacy: 138.9 lumens/watt
Spacing Criteria (0/90/45): 1.68 / 1.5 / 1.61
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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

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Luminous Intensity Polar Plot



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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	103	99	94	105	101	97	93	96	93	90		93	90	87		89	87	85		82
2	98	89	82	76	95	87	81	75	84	78	73		80	76	71		77	73	70		68
3	89	78	69	62	86	76	68	62	73	66	61		70	64	59		68	63	58		56
4	81	68	59	52	78	67	58	52	64	57	51		62	56	50		60	54	50		47
5	74	61	51	44	72	59	51	44	57	50	44		55	48	43		53	47	43		40
6	68	54	45	38	66	53	44	38	51	44	38		50	43	37		48	42	37		35
7	63	49	40	33	61	48	39	33	46	39	33		45	38	33		44	37	32		30
8	58	44	36	29	57	44	35	29	42	35	29		41	34	29		40	34	29		27
9	54	41	32	26	53	40	32	26	39	31	26		38	31	26		37	30	26		24
10	51	37	29	24	50	37	29	24	36	28	23		35	28	23		34	28	23		21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1444	1444	1444
5°	1458	1452	1457
10°	1488	1481	1486
15°	1539	1530	1535
20°	1616	1596	1592
25°	1716	1674	1653
30°	1838	1759	1711
35°	1974	1838	1755
40°	2106	1901	1771
45°	2209	1928	1755
50°	2269	1917	1711
55°	2263	1864	1639
60°	2187	1779	1553
65°	2060	1671	1469
70°	1885	1564	1412
75°	1696	1507	1364
80°	1551	1463	1317
85°	1491	1399	1318

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 2273 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.6	2.5
10°-20°	156.3	7.6
20°-30°	261.6	12.7
30°-40°	352.5	17.1
40°-50°	395.4	19.2
50°-60°	362.8	17.6
60°-70°	268.3	13.1
70°-80°	156.1	7.6
80°-90°	51.3	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°	469.5	22.8
0°-40°	822.0	40.0
0°-60°	1580.2	76.9
0°-90°	2056.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2056.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	536	536	536	536	536	
5°	540	540	538	538	539	52
15°	553	552	549	550	551	157
25°	578	574	564	558	557	268
35°	601	588	560	540	534	376
45°	580	558	506	472	461	446
55°	482	455	397	360	349	428
65°	324	304	262	238	231	320
75°	163	161	145	133	131	175
85°	48	50	45	46	43	53
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	536.5	536.5	536.5	536.5	536.5
2.5°	538.1	538.1	536.2	536.8	537.3
5°	539.7	539.5	537.6	537.9	539.2
7.5°	541.6	541.6	539.7	539.7	541.6
10°	544.6	544.0	542.1	542.7	544.0
12.5°	548.3	547.2	545.4	545.9	547.5
15°	552.6	551.5	549.1	549.7	551.0
17.5°	558.2	556.6	553.1	553.1	553.9
20°	564.4	561.7	557.4	555.3	556.1
22.5°	571.1	567.6	560.7	556.9	557.2
25°	577.8	573.5	563.9	557.7	556.6
27.5°	585.1	578.9	565.8	557.2	555.0
30°	591.5	583.7	566.0	554.2	550.5
32.5°	597.1	586.9	564.1	548.6	543.8
35°	600.9	588.3	559.6	540.0	534.1
37.5°	602.0	586.7	552.1	528.2	520.4
40°	599.6	581.6	541.1	512.6	504.1
42.5°	592.3	572.5	525.5	493.9	483.7
45°	580.5	558.5	506.5	472.1	461.1
47.5°	564.1	539.2	484.2	447.2	435.6
50°	541.9	515.6	457.9	420.1	408.6
52.5°	514.2	486.9	428.7	391.4	379.0
55°	482.3	454.7	397.3	360.3	349.3
57.5°	445.0	419.6	364.3	329.1	318.7
60°	406.4	382.3	330.5	298.0	288.6
62.5°	365.6	343.6	296.4	267.2	259.1
65°	323.5	303.9	262.4	238.5	230.7
67.5°	281.4	266.4	229.9	208.7	204.4
70°	239.6	228.3	198.8	184.8	179.5
72.5°	199.9	193.9	169.3	159.9	152.6
75°	163.1	161.0	144.9	133.3	131.2
77.5°	129.8	133.1	119.1	110.8	108.9
80°	100.1	103.3	94.4	87.5	85.0
82.5°	73.0	77.3	68.4	66.8	64.4
85°	48.3	49.6	45.3	45.9	42.7
87.5°	23.6	26.3	23.9	24.7	23.1
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	15.5	17.2	15.8	17.5	17.8	13.7	15.4	14.0	15.7	16.0
	3H	17.2	18.8	17.6	19.1	19.5	15.4	16.9	15.8	17.3	17.6
	4H	17.9	19.3	18.3	19.7	20.0	16.1	17.5	16.5	17.9	18.3
	6H	18.4	19.7	18.8	20.1	20.5	16.7	18.0	17.1	18.4	18.8
	8H	18.5	19.8	19.0	20.2	20.6	16.9	18.2	17.3	18.6	19.0
	12H	18.7	19.9	19.1	20.3	20.7	17.1	18.3	17.5	18.7	19.1
4H	2H	15.9	17.3	16.3	17.7	18.1	14.4	15.9	14.8	16.2	16.6
	3H	17.9	19.1	18.3	19.5	19.9	16.4	17.6	16.8	18.0	18.4
	4H	18.7	19.8	19.1	20.2	20.6	17.2	18.3	17.6	18.7	19.2
	6H	19.3	20.3	19.8	20.8	21.2	17.9	18.9	18.4	19.3	19.8
	8H	19.6	20.5	20.0	20.9	21.4	18.2	19.1	18.6	19.5	20.0
	12H	19.8	20.6	20.3	21.1	21.5	18.4	19.2	18.9	19.7	20.2
8H	4H	18.9	19.8	19.4	20.3	20.7	17.6	18.5	18.1	19.0	19.4
	6H	19.7	20.5	20.2	21.0	21.5	18.5	19.2	19.0	19.7	20.2
	8H	20.1	20.8	20.6	21.3	21.7	18.8	19.5	19.4	20.0	20.5
	12H	20.4	21.0	20.9	21.5	22.0	19.2	19.8	19.7	20.3	20.8
12H	4H	19.0	19.8	19.4	20.3	20.7	17.7	18.5	18.2	19.0	19.5
	6H	19.8	20.5	20.3	20.9	21.5	18.6	19.3	19.1	19.7	20.3
	8H	20.2	20.8	20.7	21.3	21.8	19.0	19.6	19.5	20.1	20.7















(END OF REPORT)