

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: P1584145

Luminaire Tested: 14CGSB-20-F125-L850

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584145
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P1527393)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CGSB-20-F125-L850
Description: CGTX with F125 Lens Option

Light Source:
Ballast/Driver: -

Summary

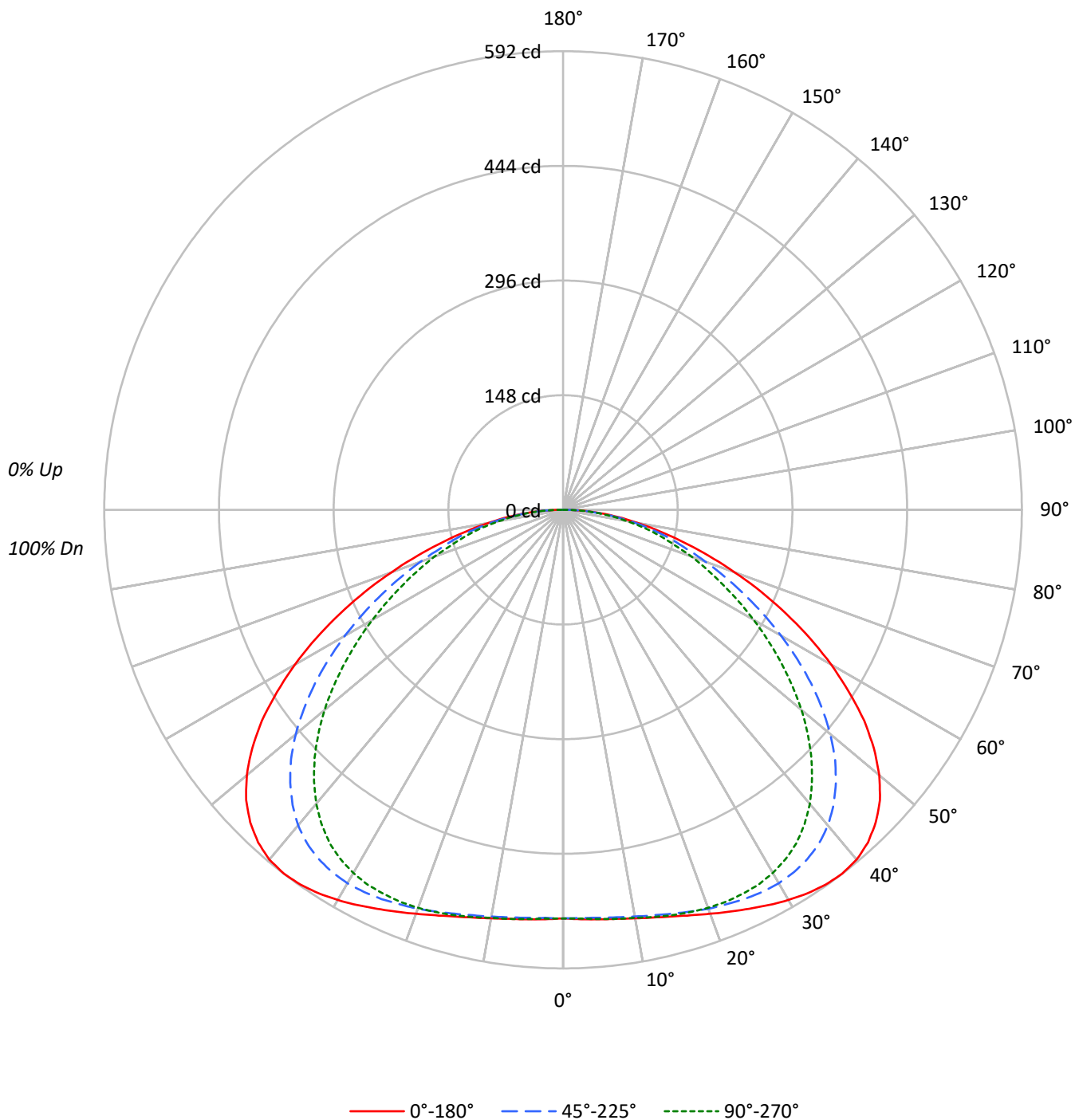
Lumens per Lamp: N/A
Luminaire Lumens: 2021.3 lumens
Efficiency: N/A
Efficacy: 89.8 lumens/watt
Spacing Criteria (0/90/45): 1.68 / 1.5 / 1.61
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 22.5
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

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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	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°	1419	1419	1419
5°	1433	1428	1432
10°	1463	1456	1461
15°	1514	1504	1509
20°	1589	1569	1566
25°	1687	1646	1625
30°	1807	1729	1682
35°	1940	1807	1725
40°	2070	1868	1741
45°	2172	1895	1725
50°	2230	1885	1681
55°	2225	1833	1611
60°	2150	1749	1527
65°	2025	1642	1444
70°	1853	1537	1388
75°	1667	1481	1341
80°	1525	1438	1296
85°	1467	1377	1294

MAXIMUM LUMINANCE 45°-90°:

Luminance: 2235 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.7	2.5
10°-20°	153.7	7.6
20°-30°	257.2	12.7
30°-40°	346.5	17.1
40°-50°	388.7	19.2
50°-60°	356.7	17.6
60°-70°	263.8	13.1
70°-80°	153.5	7.6
80°-90°	50.5	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°	461.6	22.8
0°-40°	808.1	40.0
0°-60°	1553.5	76.9
0°-90°	2021.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2021.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	527	527	527	527	527	
5°	531	530	528	529	530	51
15°	543	542	540	540	542	155
25°	568	564	554	548	547	263
35°	591	578	550	531	525	370
45°	571	549	498	464	453	439
55°	474	447	391	354	343	421
65°	318	299	258	234	227	315
75°	160	158	142	131	129	172
85°	48	49	45	45	42	52
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	527.4	527.4	527.4	527.4	527.4
2.5°	529.0	529.0	527.2	527.7	528.2
5°	530.6	530.3	528.5	528.8	530.1
7.5°	532.5	532.5	530.6	530.6	532.5
10°	535.4	534.8	533.0	533.5	534.8
12.5°	539.0	538.0	536.1	536.7	538.3
15°	543.3	542.2	539.8	540.4	541.7
17.5°	548.8	547.2	543.8	543.8	544.6
20°	554.9	552.2	548.0	545.9	546.7
22.5°	561.5	558.0	551.2	547.5	547.7
25°	568.1	563.8	554.3	548.3	547.2
27.5°	575.2	569.1	556.2	547.7	545.6
30°	581.5	573.9	556.5	544.8	541.2
32.5°	587.0	577.0	554.6	539.3	534.6
35°	590.7	578.3	550.1	530.9	525.1
37.5°	591.8	576.8	542.7	519.3	511.6
40°	589.4	571.7	531.9	504.0	495.5
42.5°	582.3	562.8	516.6	485.5	475.5
45°	570.7	549.1	497.9	464.1	453.3
47.5°	554.6	530.1	476.0	439.6	428.3
50°	532.7	506.9	450.2	413.0	401.6
52.5°	505.6	478.7	421.4	384.8	372.6
55°	474.2	447.0	390.6	354.2	343.4
57.5°	437.5	412.5	358.1	323.6	313.3
60°	399.5	375.8	324.9	293.0	283.8
62.5°	359.5	337.8	291.4	262.7	254.8
65°	318.0	298.8	257.9	234.4	226.8
67.5°	276.6	261.9	226.0	205.2	201.0
70°	235.5	224.4	195.4	181.7	176.4
72.5°	196.5	190.7	166.4	157.2	150.1
75°	160.3	158.2	142.4	131.1	129.0
77.5°	127.6	130.8	117.1	108.9	107.1
80°	98.4	101.5	92.8	86.0	83.6
82.5°	71.7	76.0	67.2	65.7	63.3
85°	47.5	48.8	44.6	45.1	41.9
87.5°	23.2	25.8	23.5	24.3	22.7
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	15.4	17.1	15.8	17.4	17.7	13.6	15.3	14.0	15.6	15.9
	3H	17.2	18.7	17.5	19.0	19.4	15.3	16.9	15.7	17.2	17.6
	4H	17.8	19.3	18.2	19.6	20.0	16.0	17.5	16.4	17.8	18.2
	6H	18.3	19.6	18.7	20.0	20.4	16.6	18.0	17.0	18.3	18.7
	8H	18.5	19.8	18.9	20.1	20.5	16.8	18.1	17.3	18.5	18.9
	12H	18.6	19.8	19.0	20.2	20.7	17.0	18.2	17.4	18.6	19.0
4H	2H	15.8	17.3	16.2	17.6	18.0	14.4	15.8	14.8	16.2	16.6
	3H	17.8	19.0	18.2	19.4	19.8	16.3	17.5	16.7	17.9	18.3
	4H	18.6	19.7	19.1	20.1	20.6	17.1	18.2	17.6	18.7	19.1
	6H	19.3	20.3	19.7	20.7	21.1	17.9	18.8	18.3	19.3	19.7
	8H	19.5	20.4	20.0	20.9	21.3	18.1	19.0	18.6	19.5	19.9
	12H	19.7	20.5	20.2	21.0	21.5	18.4	19.2	18.8	19.7	20.1
8H	4H	18.9	19.8	19.3	20.2	20.7	17.6	18.5	18.0	18.9	19.4
	6H	19.7	20.4	20.2	20.9	21.4	18.4	19.2	18.9	19.7	20.1
	8H	20.0	20.7	20.5	21.2	21.7	18.8	19.5	19.3	20.0	20.5
	12H	20.3	20.9	20.8	21.4	22.0	19.1	19.7	19.6	20.2	20.8
12H	4H	18.9	19.7	19.4	20.2	20.7	17.6	18.5	18.1	18.9	19.4
	6H	19.7	20.4	20.3	20.9	21.4	18.5	19.2	19.1	19.7	20.2
	8H	20.1	20.7	20.6	21.2	21.8	19.0	19.6	19.5	20.1	20.6















(END OF REPORT)