

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: P1584144

Luminaire Tested: 14CGSB-20-F125-L840

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584144
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-L840
Description: CGTX with F125 Lens Option

Light Source:
Ballast/Driver: -

Summary

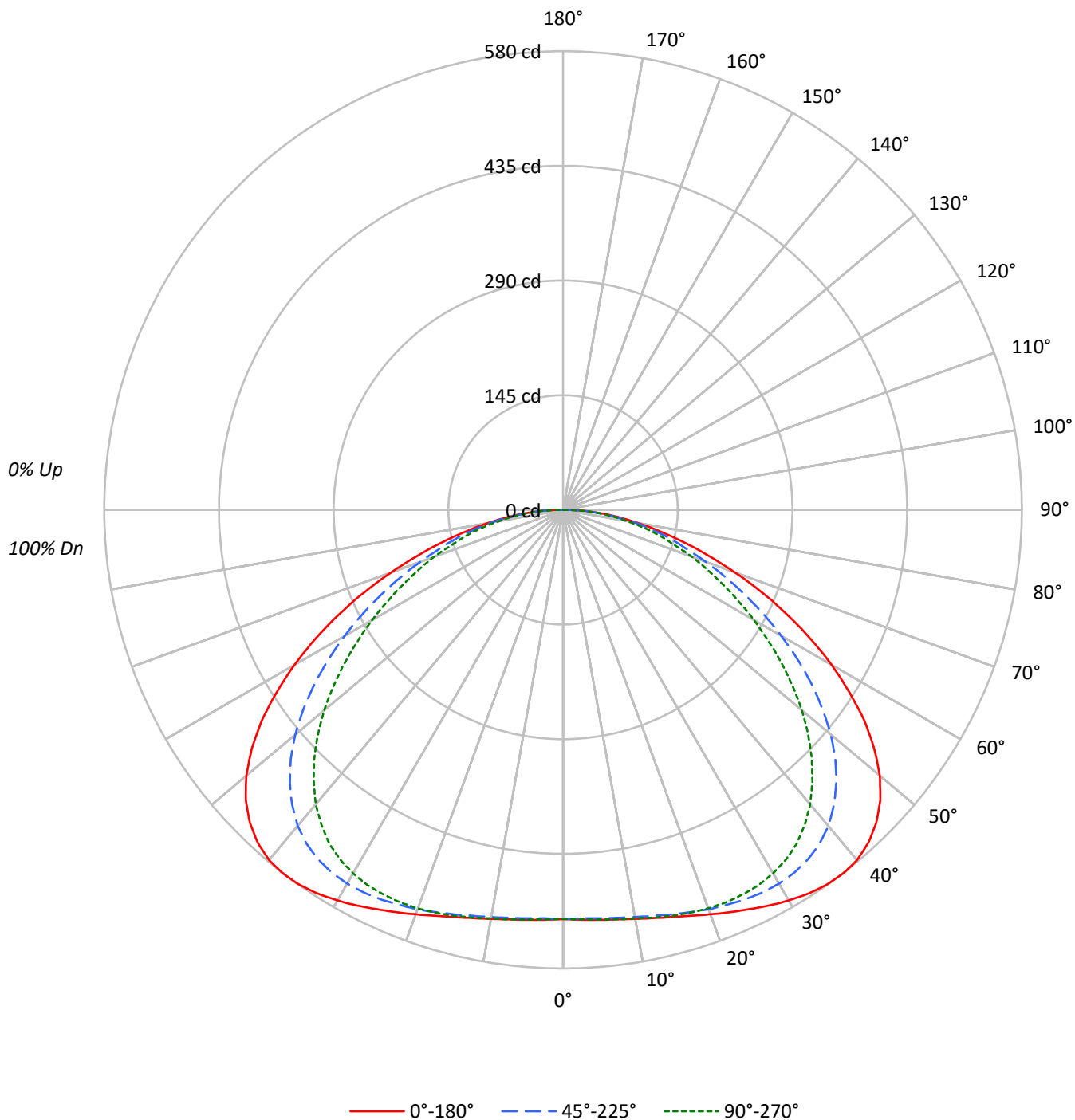
Lumens per Lamp: N/A
Luminaire Lumens: 1982.7 lumens
Efficiency: N/A
Efficacy: 88.1 lumens/watt
Spacing Criteria (0/90/45): 1.68 / 1.5 / 1.61
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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				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°	1392	1392	1392
5°	1406	1400	1405
10°	1435	1429	1433
15°	1485	1475	1480
20°	1559	1540	1536
25°	1654	1615	1594
30°	1772	1696	1649
35°	1904	1773	1692
40°	2031	1833	1708
45°	2130	1859	1692
50°	2188	1849	1649
55°	2182	1797	1580
60°	2109	1715	1498
65°	1987	1611	1417
70°	1817	1508	1362
75°	1635	1452	1315
80°	1495	1412	1271
85°	1439	1349	1269

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 2192 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.7	2.5
10°-20°	150.8	7.6
20°-30°	252.3	12.7
30°-40°	339.9	17.1
40°-50°	381.3	19.2
50°-60°	349.9	17.6
60°-70°	258.8	13.1
70°-80°	150.5	7.6
80°-90°	49.5	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°	452.8	22.8
0°-40°	792.7	40.0
0°-60°	1523.9	76.9
0°-90°	1982.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1982.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	517	517	517	517	517	
5°	520	520	518	519	520	50
15°	533	532	530	530	531	152
25°	557	553	544	538	537	258
35°	580	567	540	521	515	363
45°	560	539	488	455	445	430
55°	465	438	383	347	337	413
65°	312	293	253	230	222	309
75°	157	155	140	129	126	168
85°	47	48	44	44	41	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	517.4	517.4	517.4	517.4	517.4
2.5°	518.9	518.9	517.1	517.7	518.2
5°	520.5	520.2	518.4	518.7	520.0
7.5°	522.3	522.3	520.5	520.5	522.3
10°	525.2	524.6	522.8	523.3	524.6
12.5°	528.8	527.7	525.9	526.4	528.0
15°	532.9	531.9	529.6	530.1	531.4
17.5°	538.3	536.8	533.4	533.4	534.2
20°	544.3	541.7	537.6	535.5	536.3
22.5°	550.8	547.4	540.7	537.1	537.3
25°	557.2	553.1	543.8	537.8	536.8
27.5°	564.2	558.3	545.6	537.3	535.2
30°	570.4	562.9	545.9	534.5	530.8
32.5°	575.9	566.0	544.0	529.0	524.4
35°	579.5	567.3	539.6	520.8	515.1
37.5°	580.5	565.8	532.4	509.4	501.9
40°	578.2	560.9	521.8	494.4	486.1
42.5°	571.2	552.1	506.8	476.3	466.4
45°	559.8	538.6	488.4	455.3	444.7
47.5°	544.0	520.0	466.9	431.2	420.1
50°	522.6	497.2	441.6	405.1	394.0
52.5°	495.9	469.5	413.4	377.4	365.5
55°	465.1	438.5	383.1	347.4	336.8
57.5°	429.2	404.6	351.3	317.4	307.3
60°	391.9	368.6	318.7	287.4	278.4
62.5°	352.6	331.4	285.9	257.7	249.9
65°	312.0	293.1	253.0	230.0	222.5
67.5°	271.4	256.9	221.7	201.3	197.1
70°	231.0	220.2	191.7	178.2	173.1
72.5°	192.7	187.0	163.2	154.2	147.2
75°	157.3	155.2	139.7	128.6	126.5
77.5°	125.2	128.3	114.9	106.8	105.0
80°	96.5	99.6	91.1	84.3	82.0
82.5°	70.4	74.5	66.0	64.4	62.1
85°	46.6	47.9	43.7	44.2	41.1
87.5°	22.8	25.4	23.0	23.8	22.2
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	15.7	17.4	17.7	13.5	15.2	13.9	15.6	15.9
	3H	17.1	18.6	17.5	19.0	19.3	15.3	16.8	15.6	17.1	17.5
	4H	17.7	19.2	18.1	19.5	19.9	16.0	17.4	16.4	17.8	18.1
	6H	18.2	19.6	18.6	19.9	20.3	16.5	17.9	17.0	18.3	18.6
	8H	18.4	19.7	18.8	20.1	20.5	16.8	18.1	17.2	18.4	18.8
	12H	18.5	19.8	19.0	20.2	20.6	16.9	18.2	17.4	18.6	19.0
4H	2H	15.8	17.2	16.2	17.6	17.9	14.3	15.8	14.7	16.1	16.5
	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	19.0	20.1	20.5	17.1	18.2	17.5	18.6	19.0
	6H	19.2	20.2	19.7	20.6	21.1	17.8	18.8	18.2	19.2	19.6
	8H	19.5	20.4	19.9	20.8	21.3	18.1	19.0	18.5	19.4	19.9
	12H	19.7	20.5	20.1	20.9	21.4	18.3	19.1	18.8	19.6	20.1
8H	4H	18.8	19.7	19.3	20.2	20.6	17.5	18.4	18.0	18.8	19.3
	6H	19.6	20.4	20.1	20.9	21.3	18.4	19.1	18.8	19.6	20.1
	8H	19.9	20.6	20.5	21.1	21.6	18.7	19.4	19.2	19.9	20.4
	12H	20.2	20.8	20.7	21.3	21.9	19.1	19.7	19.6	20.1	20.7
12H	4H	18.8	19.7	19.3	20.1	20.6	17.6	18.4	18.0	18.9	19.3
	6H	19.7	20.4	20.2	20.8	21.4	18.5	19.2	19.0	19.6	20.2
	8H	20.1	20.7	20.6	21.2	21.7	18.9	19.5	19.4	20.0	20.5













(END OF REPORT)