

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: P1584142

Luminaire Tested: 14CGSB-20-F125-L830

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584142
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-L830
Description: CGTX with F125 Lens Option

Light Source:
Ballast/Driver: -

Summary

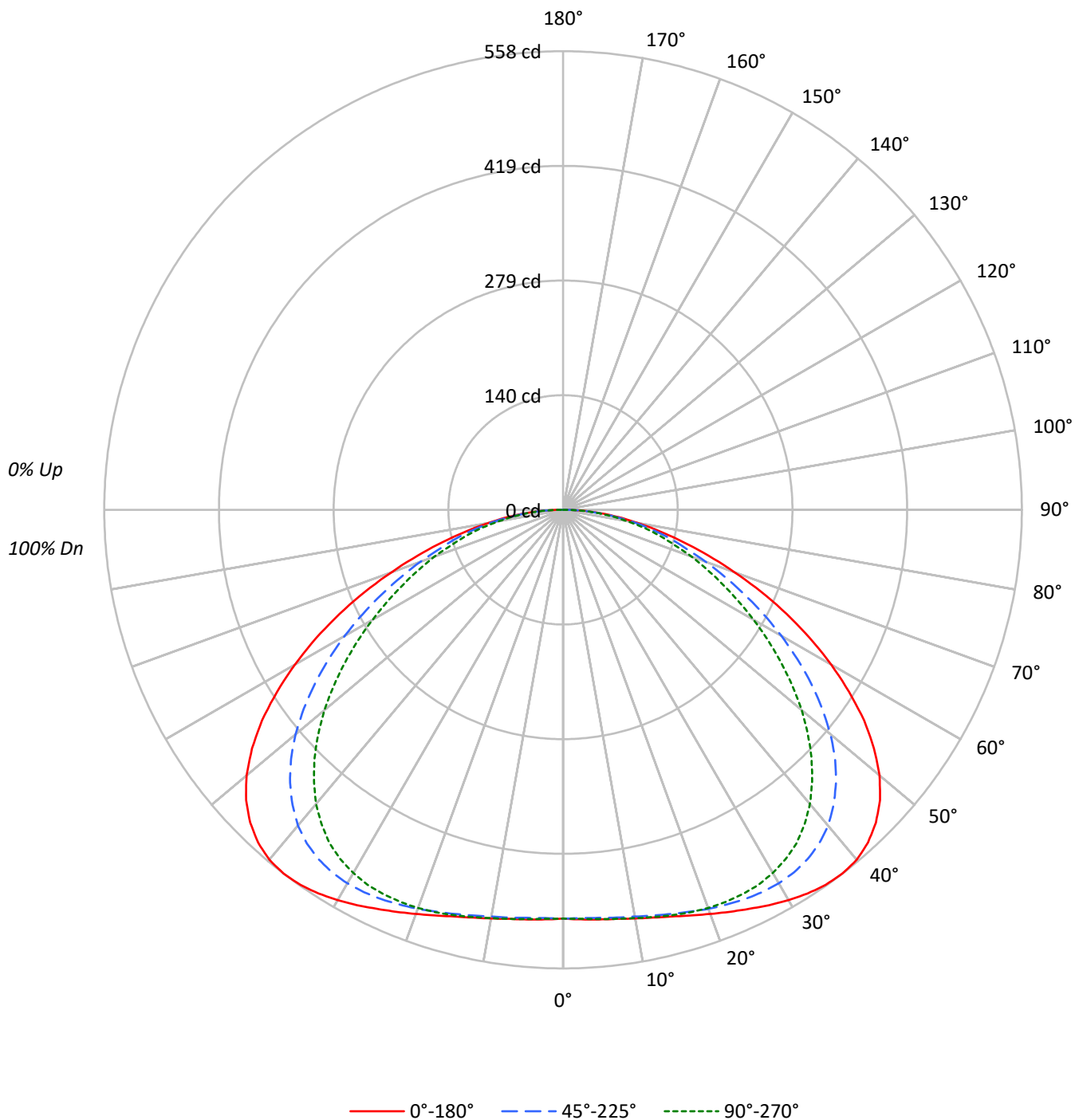
Lumens per Lamp: N/A
Luminaire Lumens: 1905.7 lumens
Efficiency: N/A
Efficacy: 84.7 lumens/watt
Spacing Criteria (0/90/45): 1.68 / 1.5 / 1.61
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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°	1338	1338	1338
5°	1351	1346	1350
10°	1379	1373	1378
15°	1427	1418	1423
20°	1498	1480	1476
25°	1590	1552	1532
30°	1704	1630	1585
35°	1830	1704	1626
40°	1952	1762	1641
45°	2048	1787	1627
50°	2103	1777	1585
55°	2098	1728	1519
60°	2027	1648	1440
65°	1910	1549	1361
70°	1747	1450	1308
75°	1572	1396	1264
80°	1437	1356	1221
85°	1383	1297	1220

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 2107 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.8	2.5
10°-20°	144.9	7.6
20°-30°	242.5	12.7
30°-40°	326.7	17.1
40°-50°	366.5	19.2
50°-60°	336.3	17.6
60°-70°	248.7	13.1
70°-80°	144.7	7.6
80°-90°	47.6	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°	435.2	22.8
0°-40°	761.9	40.0
0°-60°	1464.7	76.9
0°-90°	1905.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1905.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	497	497	497	497	497	
5°	500	500	498	498	500	48
15°	512	511	509	510	511	146
25°	536	532	523	517	516	248
35°	557	545	519	500	495	349
45°	538	518	470	438	427	414
55°	447	422	368	334	324	397
65°	300	282	243	221	214	297
75°	151	149	134	124	122	162
85°	45	46	42	42	40	49
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	497.3	497.3	497.3	497.3	497.3
2.5°	498.8	498.8	497.1	497.6	498.0
5°	500.3	500.0	498.3	498.5	499.8
7.5°	502.0	502.0	500.3	500.3	502.0
10°	504.8	504.3	502.5	503.0	504.3
12.5°	508.2	507.2	505.5	506.0	507.5
15°	512.2	511.2	509.0	509.5	510.7
17.5°	517.4	516.0	512.7	512.7	513.5
20°	523.2	520.7	516.7	514.7	515.5
22.5°	529.4	526.1	519.7	516.2	516.4
25°	535.6	531.6	522.7	516.9	516.0
27.5°	542.3	536.6	524.4	516.4	514.5
30°	548.3	541.1	524.7	513.7	510.2
32.5°	553.5	544.0	522.9	508.5	504.0
35°	557.0	545.3	518.7	500.5	495.1
37.5°	558.0	543.8	511.7	489.6	482.4
40°	555.7	539.1	501.5	475.2	467.2
42.5°	549.0	530.6	487.1	457.8	448.3
45°	538.1	517.7	469.5	437.6	427.4
47.5°	522.9	499.8	448.8	414.5	403.8
50°	502.3	477.9	424.4	389.4	378.7
52.5°	476.7	451.3	397.3	362.8	351.3
55°	447.1	421.5	368.3	333.9	323.7
57.5°	412.5	388.9	337.7	305.1	295.4
60°	376.7	354.3	306.3	276.3	267.5
62.5°	338.9	318.5	274.8	247.7	240.2
65°	299.9	281.7	243.2	221.1	213.8
67.5°	260.8	246.9	213.1	193.5	189.5
70°	222.0	211.6	184.3	171.3	166.3
72.5°	185.2	179.8	156.9	148.2	141.5
75°	151.2	149.2	134.3	123.6	121.6
77.5°	120.3	123.3	110.4	102.7	101.0
80°	92.7	95.7	87.5	81.1	78.8
82.5°	67.6	71.6	63.4	61.9	59.7
85°	44.8	46.0	42.0	42.5	39.5
87.5°	21.9	24.4	22.1	22.9	21.4
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	15.2	16.9	15.6	17.2	17.5	13.4	15.1	13.8	15.4	15.7
	3H	17.0	18.5	17.3	18.8	19.2	15.1	16.7	15.5	17.0	17.4
	4H	17.6	19.1	18.0	19.4	19.8	15.8	17.3	16.2	17.6	18.0
	6H	18.1	19.4	18.5	19.8	20.2	16.4	17.8	16.8	18.1	18.5
	8H	18.3	19.6	18.7	19.9	20.3	16.6	17.9	17.0	18.3	18.7
	12H	18.4	19.6	18.8	20.0	20.4	16.8	18.0	17.2	18.4	18.8
4H	2H	15.6	17.1	16.0	17.4	17.8	14.2	15.6	14.6	16.0	16.4
	3H	17.6	18.8	18.0	19.2	19.6	16.1	17.3	16.5	17.7	18.1
	4H	18.4	19.5	18.9	19.9	20.4	16.9	18.0	17.4	18.5	18.9
	6H	19.1	20.1	19.5	20.5	20.9	17.6	18.6	18.1	19.1	19.5
	8H	19.3	20.2	19.8	20.7	21.1	17.9	18.8	18.4	19.3	19.7
	12H	19.5	20.3	20.0	20.8	21.3	18.2	19.0	18.6	19.5	19.9
8H	4H	18.7	19.6	19.1	20.0	20.5	17.4	18.3	17.8	18.7	19.2
	6H	19.5	20.2	20.0	20.7	21.2	18.2	19.0	18.7	19.5	19.9
	8H	19.8	20.5	20.3	21.0	21.5	18.6	19.3	19.1	19.8	20.3
	12H	20.1	20.7	20.6	21.2	21.8	18.9	19.5	19.4	20.0	20.6
12H	4H	18.7	19.5	19.2	20.0	20.5	17.4	18.3	17.9	18.7	19.2
	6H	19.5	20.2	20.1	20.7	21.2	18.3	19.0	18.8	19.5	20.0
	8H	19.9	20.5	20.4	21.0	21.6	18.8	19.4	19.3	19.9	20.4















(END OF REPORT)