

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: P1584184

Luminaire Tested: 14CGSB-50-F125-L830

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584184
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-50-F125-L830
Description: CGTX with F125 Lens Option

Light Source:
Ballast/Driver: -

Summary

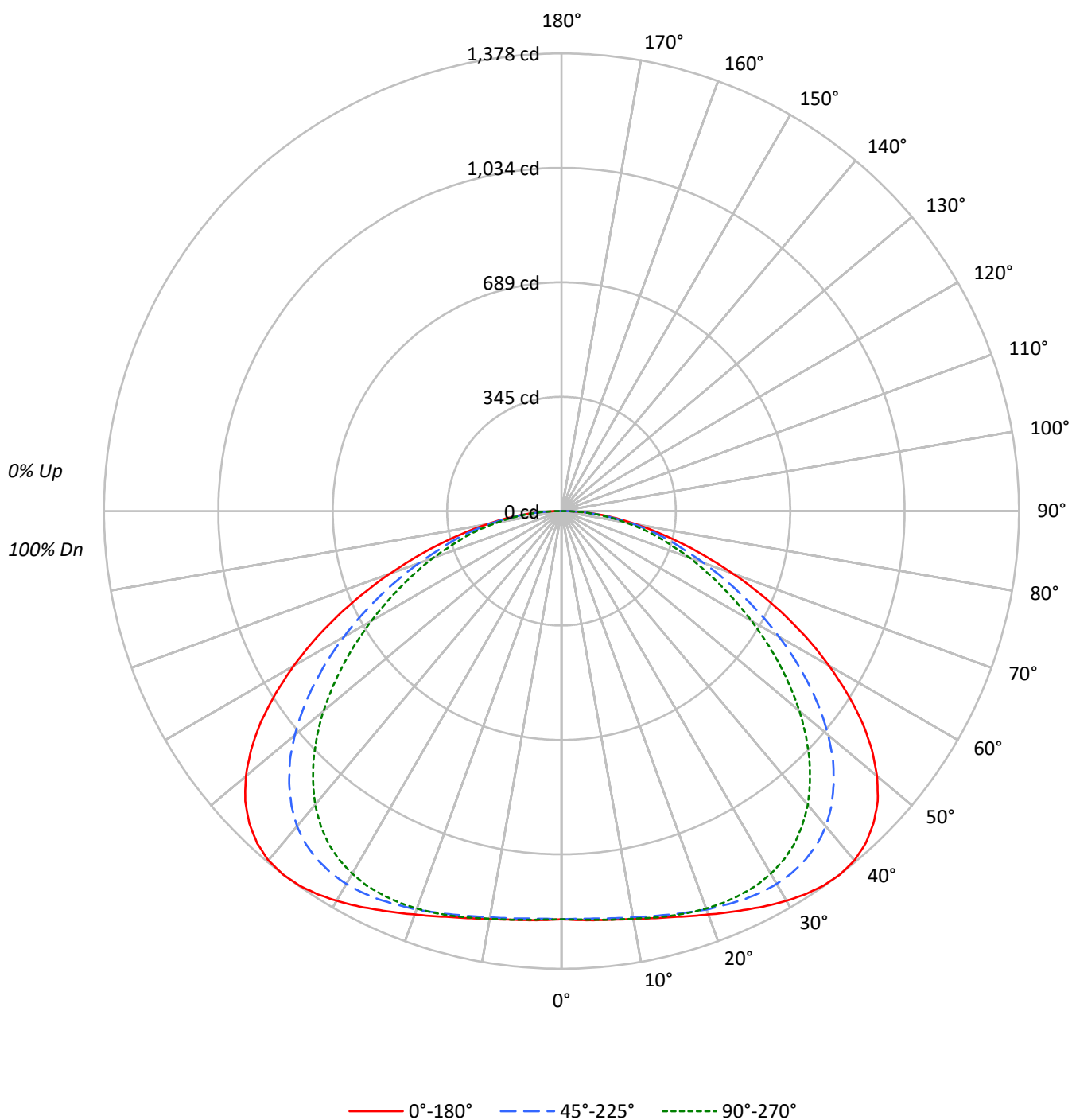
Lumens per Lamp: N/A
Luminaire Lumens: 4708.3 lumens
Efficiency: N/A
Efficacy: 80.9 lumens/watt
Spacing Criteria (0/90/45): 1.68 / 1.5 / 1.61
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 58.2
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			
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
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°	3306	3306	3306
5°	3339	3326	3336
10°	3408	3392	3404
15°	3526	3503	3515
20°	3701	3656	3647
25°	3929	3834	3785
30°	4209	4028	3917
35°	4521	4210	4018
40°	4823	4353	4055
45°	5059	4414	4019
50°	5195	4390	3917
55°	5182	4268	3752
60°	5009	4073	3557
65°	4718	3826	3364
70°	4316	3581	3234
75°	3883	3449	3123
80°	3550	3350	3017
85°	3415	3205	3017

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 5206 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.1	2.5
10°-20°	358.0	7.6
20°-30°	599.1	12.7
30°-40°	807.2	17.1
40°-50°	905.5	19.2
50°-60°	830.9	17.6
60°-70°	614.5	13.1
70°-80°	357.5	7.6
80°-90°	117.5	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°	1075.2	22.8
0°-40°	1882.4	40.0
0°-60°	3618.8	76.9
0°-90°	4708.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4708.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1229	1229	1229	1229	1229	
5°	1236	1235	1231	1232	1235	118
15°	1266	1263	1258	1259	1262	360
25°	1323	1313	1291	1277	1275	614
35°	1376	1347	1282	1237	1223	862
45°	1329	1279	1160	1081	1056	1022
55°	1105	1041	910	825	800	981
65°	741	696	601	546	528	733
75°	374	369	332	305	300	400
85°	111	114	104	105	98	121
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1228.6	1228.6	1228.6	1228.6	1228.6
2.5°	1232.3	1232.3	1228.0	1229.3	1230.5
5°	1236.0	1235.4	1231.1	1231.7	1234.8
7.5°	1240.3	1240.3	1236.0	1236.0	1240.3
10°	1247.1	1245.8	1241.5	1242.8	1245.8
12.5°	1255.7	1253.2	1248.9	1250.1	1253.8
15°	1265.5	1263.0	1257.5	1258.7	1261.8
17.5°	1278.4	1274.7	1266.7	1266.7	1268.6
20°	1292.5	1286.4	1276.6	1271.6	1273.5
22.5°	1307.9	1299.9	1283.9	1275.3	1275.9
25°	1323.3	1313.4	1291.3	1277.2	1274.7
27.5°	1339.8	1325.7	1295.6	1275.9	1271.0
30°	1354.6	1336.8	1296.2	1269.2	1260.6
32.5°	1367.5	1344.1	1291.9	1256.3	1245.2
35°	1376.1	1347.2	1281.5	1236.6	1223.1
37.5°	1378.5	1343.5	1264.3	1209.6	1191.8
40°	1373.0	1331.9	1239.1	1174.0	1154.3
42.5°	1356.4	1311.0	1203.5	1131.0	1107.6
45°	1329.4	1279.0	1159.8	1081.2	1056.0
47.5°	1291.9	1234.8	1108.9	1024.1	997.7
50°	1240.9	1180.7	1048.6	962.0	935.6
52.5°	1177.7	1115.0	981.7	896.3	868.0
55°	1104.6	1041.3	909.8	825.0	799.8
57.5°	1019.2	960.8	834.3	753.8	729.8
60°	930.7	875.4	756.8	682.5	661.0
62.5°	837.3	786.9	678.8	611.9	593.4
65°	740.9	696.0	600.8	546.1	528.3
67.5°	644.4	610.0	526.5	477.9	468.1
70°	548.6	522.8	455.2	423.3	411.0
72.5°	457.7	444.2	387.6	366.1	349.5
75°	373.5	368.6	331.7	305.3	300.4
77.5°	297.3	304.7	272.8	253.7	249.4
80°	229.1	236.5	216.2	200.3	194.7
82.5°	167.1	176.9	156.7	153.0	147.4
85°	110.6	113.6	103.8	105.0	97.7
87.5°	54.1	60.2	54.7	56.5	52.8
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	18.4	20.1	18.7	20.4	20.7	16.6	18.3	16.9	18.6	18.9
	3H	20.1	21.6	20.5	22.0	22.3	18.3	19.8	18.6	20.1	20.5
	4H	20.7	22.2	21.1	22.5	22.9	19.0	20.4	19.4	20.8	21.1
	6H	21.2	22.6	21.6	22.9	23.3	19.5	20.9	20.0	21.3	21.7
	8H	21.4	22.7	21.8	23.1	23.5	19.8	21.1	20.2	21.4	21.8
	12H	21.5	22.8	22.0	23.2	23.6	19.9	21.2	20.4	21.6	22.0
4H	2H	18.8	20.2	19.2	20.6	20.9	17.3	18.8	17.7	19.1	19.5
	3H	20.8	22.0	21.2	22.4	22.8	19.3	20.5	19.7	20.9	21.3
	4H	21.6	22.7	22.0	23.1	23.5	20.1	21.2	20.5	21.6	22.0
	6H	22.2	23.2	22.7	23.6	24.1	20.8	21.8	21.2	22.2	22.7
	8H	22.5	23.4	22.9	23.8	24.3	21.1	22.0	21.5	22.4	22.9
	12H	22.7	23.5	23.1	24.0	24.4	21.3	22.1	21.8	22.6	23.1
8H	4H	21.8	22.7	22.3	23.2	23.6	20.5	21.4	21.0	21.9	22.3
	6H	22.6	23.4	23.1	23.9	24.3	21.4	22.1	21.8	22.6	23.1
	8H	23.0	23.6	23.5	24.1	24.6	21.7	22.4	22.2	22.9	23.4
	12H	23.2	23.9	23.7	24.3	24.9	22.1	22.7	22.6	23.2	23.7
12H	4H	21.8	22.7	22.3	23.1	23.6	20.6	21.4	21.0	21.9	22.3
	6H	22.7	23.4	23.2	23.8	24.4	21.5	22.2	22.0	22.6	23.2
	8H	23.1	23.7	23.6	24.2	24.7	21.9	22.5	22.4	23.0	23.6













(END OF REPORT)