

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: P1584186

Luminaire Tested: 14CGSB-50-F125-L840

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584186
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-L840
Description: CGTX with F125 Lens Option

Light Source:
Ballast/Driver: -

Summary

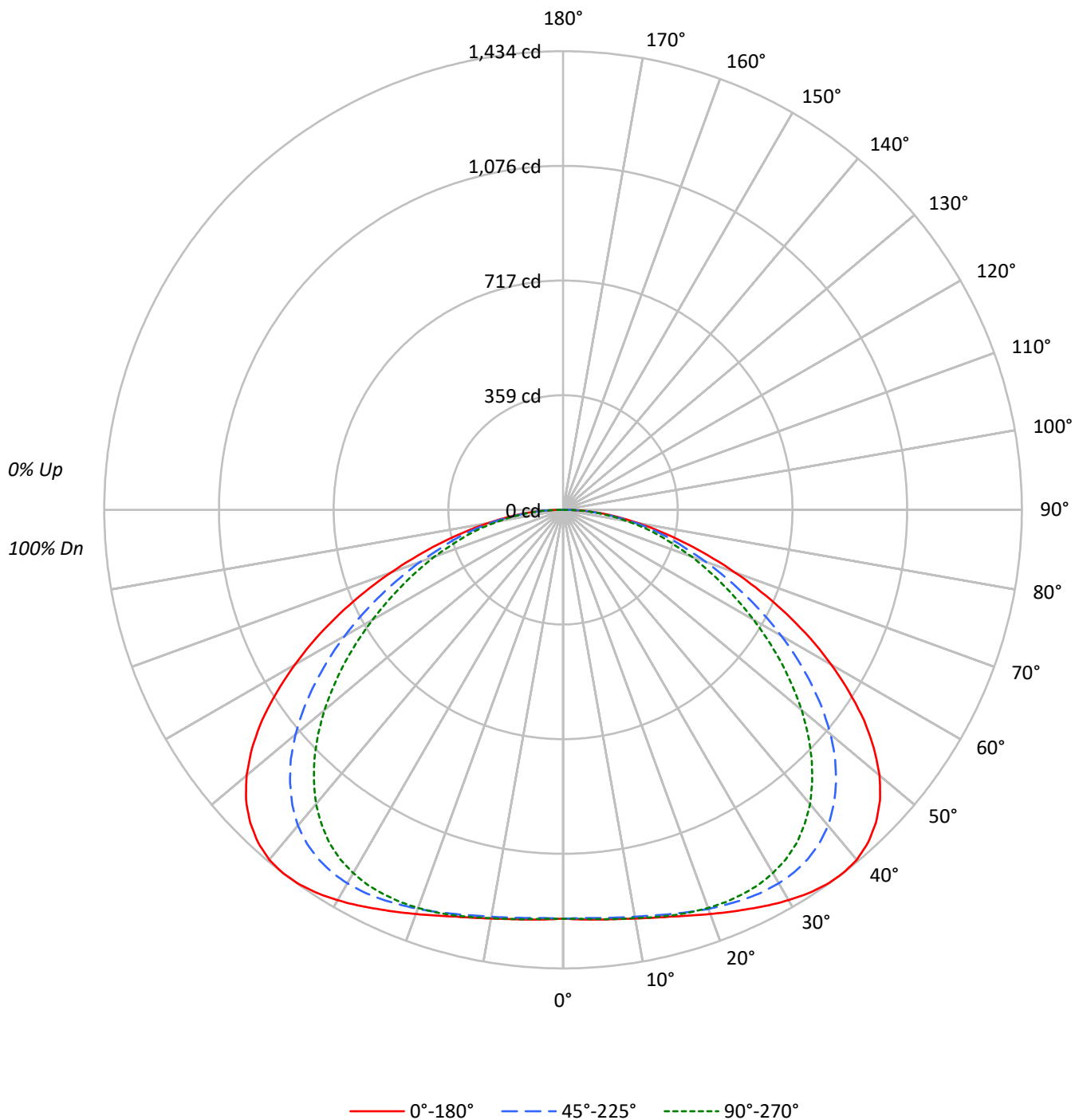
Lumens per Lamp: N/A
Luminaire Lumens: 4898.6 lumens
Efficiency: N/A
Efficacy: 84.2 lumens/watt
Spacing Criteria (0/90/45): 1.68 / 1.5 / 1.61
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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				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°	3440	3440	3440
5°	3474	3460	3470
10°	3545	3530	3542
15°	3668	3645	3657
20°	3851	3803	3794
25°	4088	3989	3938
30°	4379	4190	4075
35°	4703	4380	4180
40°	5018	4529	4219
45°	5264	4592	4181
50°	5405	4567	4075
55°	5392	4441	3904
60°	5211	4238	3701
65°	4908	3980	3500
70°	4491	3726	3364
75°	4040	3588	3249
80°	3694	3487	3140
85°	3551	3335	3137

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 5416 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.8	2.5
10°-20°	372.5	7.6
20°-30°	623.3	12.7
30°-40°	839.8	17.1
40°-50°	942.1	19.2
50°-60°	864.4	17.6
60°-70°	639.4	13.1
70°-80°	372.0	7.6
80°-90°	122.3	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°	1118.7	22.8
0°-40°	1958.5	40.0
0°-60°	3765.0	76.9
0°-90°	4898.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4898.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1278	1278	1278	1278	1278	
5°	1286	1285	1281	1282	1285	123
15°	1317	1314	1308	1310	1313	374
25°	1377	1366	1344	1329	1326	638
35°	1432	1402	1333	1287	1272	897
45°	1383	1331	1207	1125	1099	1063
55°	1149	1083	947	858	832	1021
65°	771	724	625	568	550	762
75°	389	384	345	318	312	416
85°	115	118	108	109	102	126
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1278.3	1278.3	1278.3	1278.3	1278.3
2.5°	1282.1	1282.1	1277.6	1278.9	1280.2
5°	1286.0	1285.3	1280.8	1281.5	1284.7
7.5°	1290.4	1290.4	1286.0	1286.0	1290.4
10°	1297.5	1296.2	1291.7	1293.0	1296.2
12.5°	1306.4	1303.9	1299.4	1300.7	1304.5
15°	1316.6	1314.1	1308.3	1309.6	1312.8
17.5°	1330.1	1326.2	1317.9	1317.9	1319.8
20°	1344.8	1338.4	1328.1	1323.0	1324.9
22.5°	1360.7	1352.4	1335.8	1326.9	1327.5
25°	1376.7	1366.5	1343.5	1328.8	1326.2
27.5°	1394.0	1379.3	1348.0	1327.5	1322.4
30°	1409.3	1390.8	1348.6	1320.5	1311.5
32.5°	1422.7	1398.4	1344.1	1307.0	1295.5
35°	1431.7	1401.6	1333.3	1286.6	1272.5
37.5°	1434.2	1397.8	1315.4	1258.5	1239.9
40°	1428.5	1385.7	1289.2	1221.4	1201.0
42.5°	1411.2	1363.9	1252.1	1176.7	1152.4
45°	1383.1	1330.7	1206.7	1124.9	1098.7
47.5°	1344.1	1284.7	1153.7	1065.5	1038.0
50°	1291.1	1228.4	1091.0	1000.9	973.4
52.5°	1225.2	1160.0	1021.4	932.5	903.1
55°	1149.2	1083.3	946.6	858.4	832.2
57.5°	1060.3	999.6	868.0	784.2	759.3
60°	968.3	910.8	787.4	710.1	687.7
62.5°	871.2	818.7	706.3	636.6	617.4
65°	770.8	724.2	625.1	568.2	549.7
67.5°	670.5	634.7	547.7	497.3	487.0
70°	570.8	543.9	473.6	440.4	427.6
72.5°	476.2	462.1	403.3	380.9	363.7
75°	388.6	383.5	345.1	317.7	312.5
77.5°	309.3	317.0	283.8	264.0	259.5
80°	238.4	246.1	225.0	208.4	202.6
82.5°	173.8	184.1	163.0	159.1	153.4
85°	115.0	118.2	108.0	109.3	101.6
87.5°	56.2	62.6	56.9	58.8	55.0
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	18.5	20.2	18.9	20.5	20.8	16.7	18.4	17.1	18.7	19.0
	3H	20.2	21.8	20.6	22.1	22.5	18.4	20.0	18.8	20.3	20.6
	4H	20.9	22.3	21.3	22.7	23.1	19.1	20.6	19.5	20.9	21.3
	6H	21.4	22.7	21.8	23.1	23.5	19.7	21.0	20.1	21.4	21.8
	8H	21.5	22.8	22.0	23.2	23.6	19.9	21.2	20.3	21.6	22.0
	12H	21.7	22.9	22.1	23.3	23.7	20.1	21.3	20.5	21.7	22.1
4H	2H	18.9	20.4	19.3	20.7	21.1	17.5	18.9	17.9	19.3	19.6
	3H	20.9	22.1	21.3	22.5	22.9	19.4	20.6	19.8	21.0	21.4
	4H	21.7	22.8	22.1	23.2	23.7	20.2	21.3	20.6	21.7	22.2
	6H	22.4	23.3	22.8	23.8	24.2	20.9	21.9	21.4	22.3	22.8
	8H	22.6	23.5	23.1	24.0	24.4	21.2	22.1	21.7	22.6	23.0
	12H	22.8	23.6	23.3	24.1	24.6	21.4	22.3	21.9	22.7	23.2
8H	4H	21.9	22.9	22.4	23.3	23.8	20.6	21.5	21.1	22.0	22.5
	6H	22.8	23.5	23.2	24.0	24.5	21.5	22.3	22.0	22.7	23.2
	8H	23.1	23.8	23.6	24.3	24.8	21.9	22.5	22.4	23.1	23.5
	12H	23.4	24.0	23.9	24.5	25.0	22.2	22.8	22.7	23.3	23.8
12H	4H	22.0	22.8	22.5	23.3	23.7	20.7	21.5	21.2	22.0	22.5
	6H	22.8	23.5	23.3	24.0	24.5	21.6	22.3	22.1	22.8	23.3
	8H	23.2	23.8	23.7	24.3	24.9	22.0	22.6	22.5	23.1	23.7













(END OF REPORT)