

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: P1584180

Luminaire Tested: 14CGSB-45-F125-L850

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584180
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-45-F125-L850
Description: CGTX with F125 Lens Option

Light Source:
Ballast/Driver: -

Summary

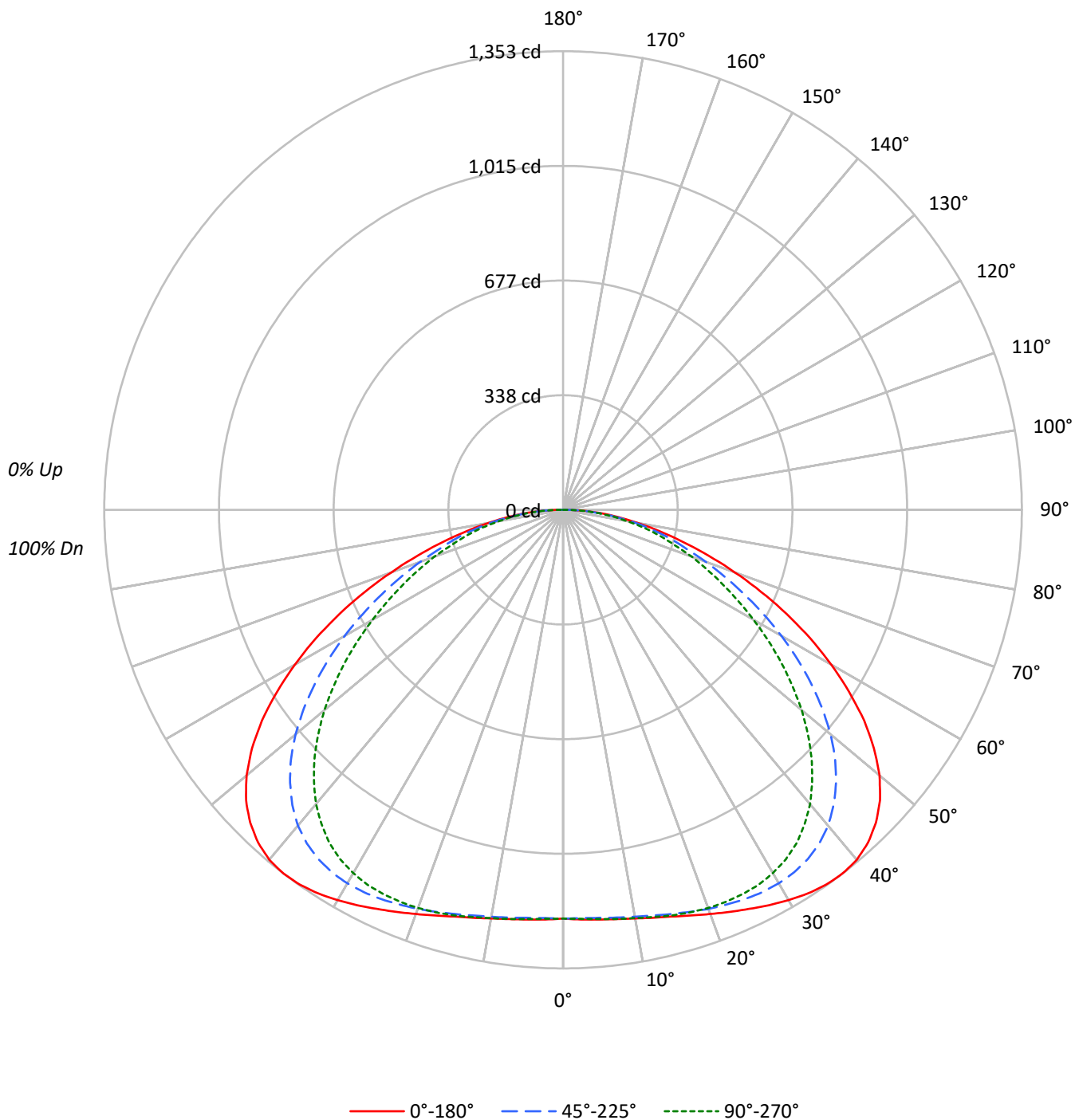
Lumens per Lamp: N/A
Luminaire Lumens: 4621.7 lumens
Efficiency: N/A
Efficacy: 93.4 lumens/watt
Spacing Criteria (0/90/45): 1.68 / 1.5 / 1.61
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 49.5
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°	3245	3245	3245
5°	3277	3264	3274
10°	3345	3330	3342
15°	3461	3439	3451
20°	3633	3588	3580
25°	3857	3763	3715
30°	4131	3953	3845
35°	4437	4132	3944
40°	4734	4273	3980
45°	4966	4333	3945
50°	5099	4309	3845
55°	5087	4190	3683
60°	4917	3998	3492
65°	4630	3755	3302
70°	4237	3515	3174
75°	3812	3385	3066
80°	3485	3290	2963
85°	3350	3146	2961

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 5110 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.9	2.5
10°-20°	351.4	7.6
20°-30°	588.1	12.7
30°-40°	792.4	17.1
40°-50°	888.8	19.2
50°-60°	815.6	17.6
60°-70°	603.2	13.1
70°-80°	350.9	7.6
80°-90°	115.4	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°	1055.4	22.8
0°-40°	1847.8	40.0
0°-60°	3552.1	76.9
0°-90°	4621.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4621.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1206	1206	1206	1206	1206	
5°	1213	1213	1208	1209	1212	116
15°	1242	1240	1234	1236	1239	353
25°	1299	1289	1268	1254	1251	602
35°	1351	1322	1258	1214	1201	846
45°	1305	1256	1138	1061	1037	1003
55°	1084	1022	893	810	785	963
65°	727	683	590	536	519	719
75°	367	362	326	300	295	393
85°	108	112	102	103	96	119
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1206.0	1206.0	1206.0	1206.0	1206.0
2.5°	1209.6	1209.6	1205.4	1206.6	1207.8
5°	1213.3	1212.6	1208.4	1209.0	1212.0
7.5°	1217.5	1217.5	1213.3	1213.3	1217.5
10°	1224.1	1222.9	1218.7	1219.9	1222.9
12.5°	1232.5	1230.1	1225.9	1227.1	1230.7
15°	1242.2	1239.8	1234.4	1235.6	1238.6
17.5°	1254.9	1251.2	1243.4	1243.4	1245.2
20°	1268.7	1262.7	1253.1	1248.2	1250.0
22.5°	1283.8	1276.0	1260.3	1251.8	1252.4
25°	1298.9	1289.2	1267.5	1253.7	1251.2
27.5°	1315.2	1301.3	1271.7	1252.4	1247.6
30°	1329.6	1312.1	1272.3	1245.8	1237.4
32.5°	1342.3	1319.4	1268.1	1233.2	1222.3
35°	1350.7	1322.4	1257.9	1213.9	1200.6
37.5°	1353.1	1318.8	1241.0	1187.3	1169.8
40°	1347.7	1307.3	1216.3	1152.3	1133.1
42.5°	1331.4	1286.8	1181.3	1110.1	1087.2
45°	1304.9	1255.5	1138.5	1061.3	1036.6
47.5°	1268.1	1212.0	1088.4	1005.2	979.3
50°	1218.1	1159.0	1029.3	944.3	918.4
52.5°	1156.0	1094.5	963.6	879.8	852.0
55°	1084.2	1022.1	893.1	809.8	785.1
57.5°	1000.4	943.1	818.9	739.9	716.4
60°	913.6	859.3	742.9	669.9	648.8
62.5°	821.9	772.5	666.3	600.6	582.5
65°	727.2	683.2	589.7	536.1	518.6
67.5°	632.6	598.8	516.8	469.1	459.5
70°	538.5	513.2	446.8	415.5	403.4
72.5°	449.2	436.0	380.5	359.4	343.1
75°	366.6	361.8	325.6	299.7	294.9
77.5°	291.9	299.1	267.7	249.0	244.8
80°	224.9	232.2	212.3	196.6	191.2
82.5°	164.0	173.7	153.8	150.1	144.7
85°	108.5	111.6	101.9	103.1	95.9
87.5°	53.1	59.1	53.7	55.5	51.9
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	18.3	20.0	18.7	20.3	20.6	16.5	18.2	16.9	18.5	18.8
	3H	20.0	21.6	20.4	21.9	22.3	18.2	19.7	18.6	20.1	20.4
	4H	20.7	22.1	21.1	22.5	22.9	18.9	20.4	19.3	20.7	21.1
	6H	21.2	22.5	21.6	22.9	23.3	19.5	20.8	19.9	21.2	21.6
	8H	21.3	22.6	21.8	23.0	23.4	19.7	21.0	20.1	21.4	21.8
	12H	21.5	22.7	21.9	23.1	23.5	19.9	21.1	20.3	21.5	21.9
4H	2H	18.7	20.2	19.1	20.5	20.9	17.3	18.7	17.7	19.1	19.4
	3H	20.7	21.9	21.1	22.3	22.7	19.2	20.4	19.6	20.8	21.2
	4H	21.5	22.6	21.9	23.0	23.5	20.0	21.1	20.4	21.5	22.0
	6H	22.2	23.1	22.6	23.6	24.0	20.7	21.7	21.2	22.1	22.6
	8H	22.4	23.3	22.9	23.8	24.2	21.0	21.9	21.5	22.4	22.8
	12H	22.6	23.4	23.1	23.9	24.4	21.2	22.1	21.7	22.5	23.0
8H	4H	21.7	22.7	22.2	23.1	23.6	20.4	21.3	20.9	21.8	22.3
	6H	22.5	23.3	23.0	23.8	24.3	21.3	22.1	21.8	22.5	23.0
	8H	22.9	23.6	23.4	24.1	24.6	21.7	22.3	22.2	22.8	23.3
	12H	23.2	23.8	23.7	24.3	24.8	22.0	22.6	22.5	23.1	23.6
12H	4H	21.8	22.6	22.3	23.1	23.5	20.5	21.3	21.0	21.8	22.3
	6H	22.6	23.3	23.1	23.8	24.3	21.4	22.1	21.9	22.6	23.1
	8H	23.0	23.6	23.5	24.1	24.7	21.8	22.4	22.3	22.9	23.5













(END OF REPORT)