

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: P1584179

Luminaire Tested: 14CGSB-45-F125-L840

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584179
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-L840
Description: CGTX with F125 Lens Option

Light Source:
Ballast/Driver: -

Summary

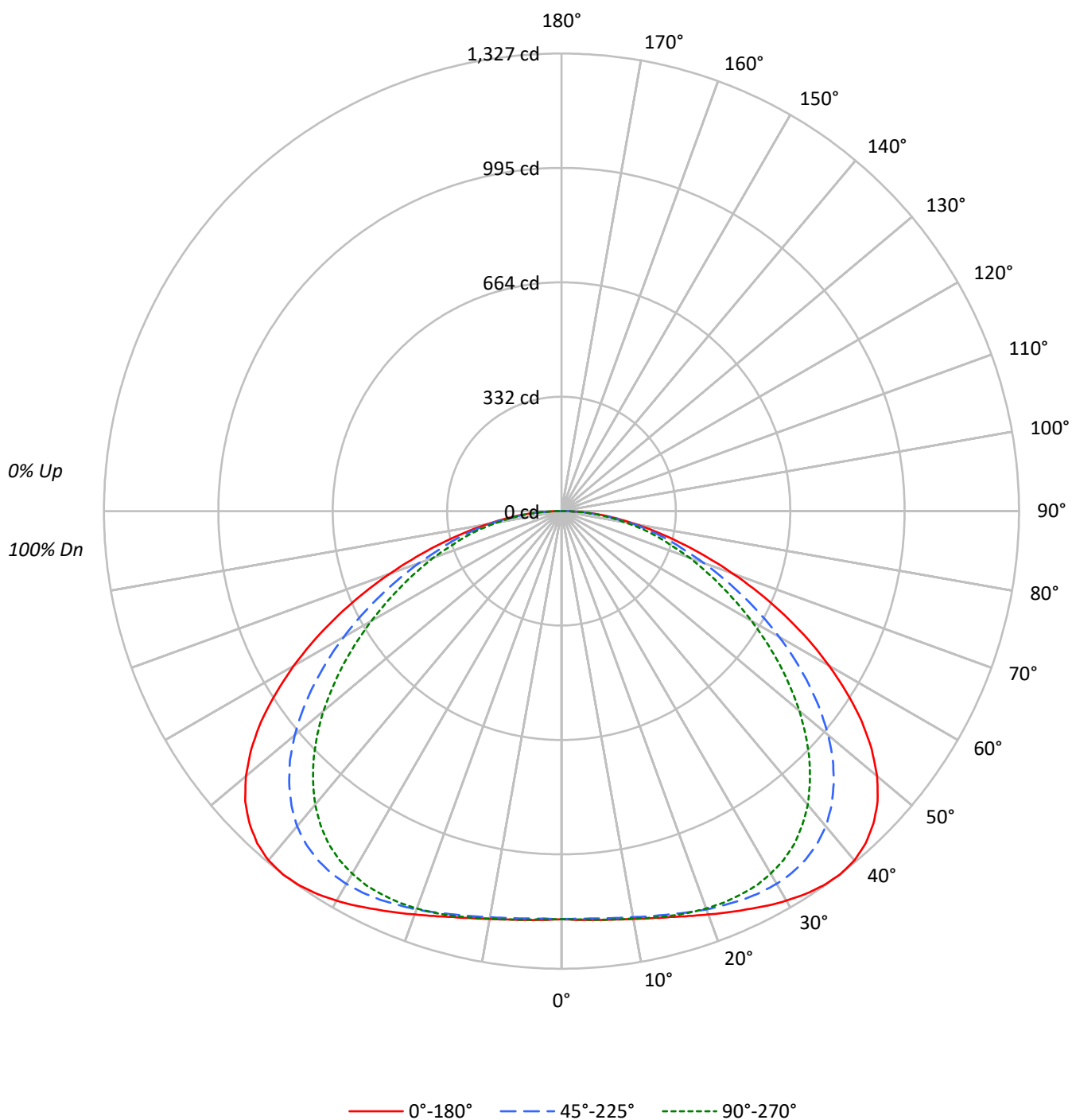
Lumens per Lamp: N/A
Luminaire Lumens: 4533.6 lumens
Efficiency: N/A
Efficacy: 91.6 lumens/watt
Spacing Criteria (0/90/45): 1.68 / 1.5 / 1.61
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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			
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°	3183	3183	3183
5°	3215	3202	3212
10°	3281	3267	3278
15°	3395	3373	3385
20°	3564	3520	3511
25°	3783	3692	3644
30°	4053	3878	3772
35°	4353	4053	3869
40°	4644	4191	3905
45°	4872	4250	3870
50°	5002	4227	3772
55°	4990	4110	3613
60°	4823	3922	3426
65°	4543	3684	3239
70°	4156	3448	3113
75°	3739	3321	3008
80°	3419	3226	2906
85°	3288	3088	2905

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 5012 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.7	2.5
10°-20°	344.7	7.6
20°-30°	576.9	12.7
30°-40°	777.3	17.1
40°-50°	871.9	19.2
50°-60°	800.0	17.6
60°-70°	591.7	13.1
70°-80°	344.2	7.6
80°-90°	113.2	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°	1035.3	22.8
0°-40°	1812.6	40.0
0°-60°	3484.5	76.9
0°-90°	4533.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4533.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1183	1183	1183	1183	1183	
5°	1190	1190	1185	1186	1189	114
15°	1218	1216	1211	1212	1215	347
25°	1274	1265	1243	1230	1227	591
35°	1325	1297	1234	1191	1178	830
45°	1280	1232	1117	1041	1017	984
55°	1064	1003	876	794	770	945
65°	713	670	578	526	509	705
75°	360	355	319	294	289	385
85°	106	109	100	101	94	117
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1183.0	1183.0	1183.0	1183.0	1183.0
2.5°	1186.6	1186.6	1182.5	1183.6	1184.8
5°	1190.1	1189.6	1185.4	1186.0	1189.0
7.5°	1194.3	1194.3	1190.1	1190.1	1194.3
10°	1200.8	1199.6	1195.5	1196.6	1199.6
12.5°	1209.1	1206.7	1202.6	1203.7	1207.3
15°	1218.5	1216.2	1210.8	1212.0	1215.0
17.5°	1231.0	1227.4	1219.7	1219.7	1221.5
20°	1244.6	1238.6	1229.2	1224.5	1226.2
22.5°	1259.4	1251.7	1236.3	1228.0	1228.6
25°	1274.1	1264.7	1243.4	1229.8	1227.4
27.5°	1290.1	1276.5	1247.5	1228.6	1223.9
30°	1304.3	1287.2	1248.1	1222.1	1213.8
32.5°	1316.7	1294.2	1244.0	1209.7	1199.0
35°	1325.0	1297.2	1233.9	1190.7	1177.7
37.5°	1327.4	1293.7	1217.4	1164.7	1147.6
40°	1322.1	1282.4	1193.1	1130.4	1111.5
42.5°	1306.1	1262.3	1158.8	1089.0	1066.5
45°	1280.1	1231.5	1116.8	1041.1	1016.8
47.5°	1244.0	1189.0	1067.7	986.1	960.6
50°	1194.9	1136.9	1009.7	926.3	900.9
52.5°	1133.9	1073.6	945.3	863.0	835.8
55°	1063.6	1002.6	876.0	794.4	770.2
57.5°	981.3	925.1	803.3	725.8	702.7
60°	896.2	842.9	728.8	657.2	636.5
62.5°	806.2	757.7	653.6	589.2	571.4
65°	713.4	670.2	578.5	525.9	508.7
67.5°	620.5	587.4	506.9	460.2	450.7
70°	528.2	503.4	438.3	407.6	395.7
72.5°	440.7	427.7	373.3	352.5	336.6
75°	359.6	354.9	319.4	294.0	289.3
77.5°	286.3	293.4	262.6	244.3	240.2
80°	220.6	227.7	208.2	192.8	187.5
82.5°	160.9	170.4	150.8	147.3	142.0
85°	106.5	109.4	100.0	101.2	94.1
87.5°	52.1	58.0	52.6	54.4	50.9
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	18.2	19.9	18.6	20.2	20.6	16.4	18.1	16.8	18.4	18.7
	3H	20.0	21.5	20.3	21.8	22.2	18.1	19.7	18.5	20.0	20.4
	4H	20.6	22.1	21.0	22.4	22.8	18.8	20.3	19.2	20.6	21.0
	6H	21.1	22.5	21.5	22.8	23.2	19.4	20.8	19.8	21.1	21.5
	8H	21.3	22.6	21.7	23.0	23.4	19.6	20.9	20.1	21.3	21.7
	12H	21.4	22.6	21.8	23.0	23.5	19.8	21.0	20.2	21.4	21.9
4H	2H	18.6	20.1	19.0	20.4	20.8	17.2	18.6	17.6	19.0	19.4
	3H	20.6	21.9	21.0	22.2	22.6	19.1	20.3	19.5	20.7	21.1
	4H	21.4	22.5	21.9	23.0	23.4	19.9	21.1	20.4	21.5	21.9
	6H	22.1	23.1	22.5	23.5	24.0	20.7	21.6	21.1	22.1	22.5
	8H	22.3	23.2	22.8	23.7	24.1	20.9	21.8	21.4	22.3	22.8
	12H	22.5	23.3	23.0	23.8	24.3	21.2	22.0	21.6	22.5	22.9
8H	4H	21.7	22.6	22.1	23.0	23.5	20.4	21.3	20.8	21.7	22.2
	6H	22.5	23.2	23.0	23.7	24.2	21.2	22.0	21.7	22.5	22.9
	8H	22.8	23.5	23.3	24.0	24.5	21.6	22.3	22.1	22.8	23.3
	12H	23.1	23.7	23.6	24.2	24.8	21.9	22.5	22.4	23.0	23.6
12H	4H	21.7	22.5	22.2	23.0	23.5	20.4	21.3	20.9	21.7	22.2
	6H	22.5	23.2	23.1	23.7	24.2	21.3	22.0	21.9	22.5	23.0
	8H	22.9	23.5	23.4	24.0	24.6	21.8	22.4	22.3	22.9	23.4















(END OF REPORT)