

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: P1584172

Luminaire Tested: 14CGSB-40-F125-L840

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584172
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-40-F125-L840
Description: CGTX with F125 Lens Option

Light Source:
Ballast/Driver: -

Summary

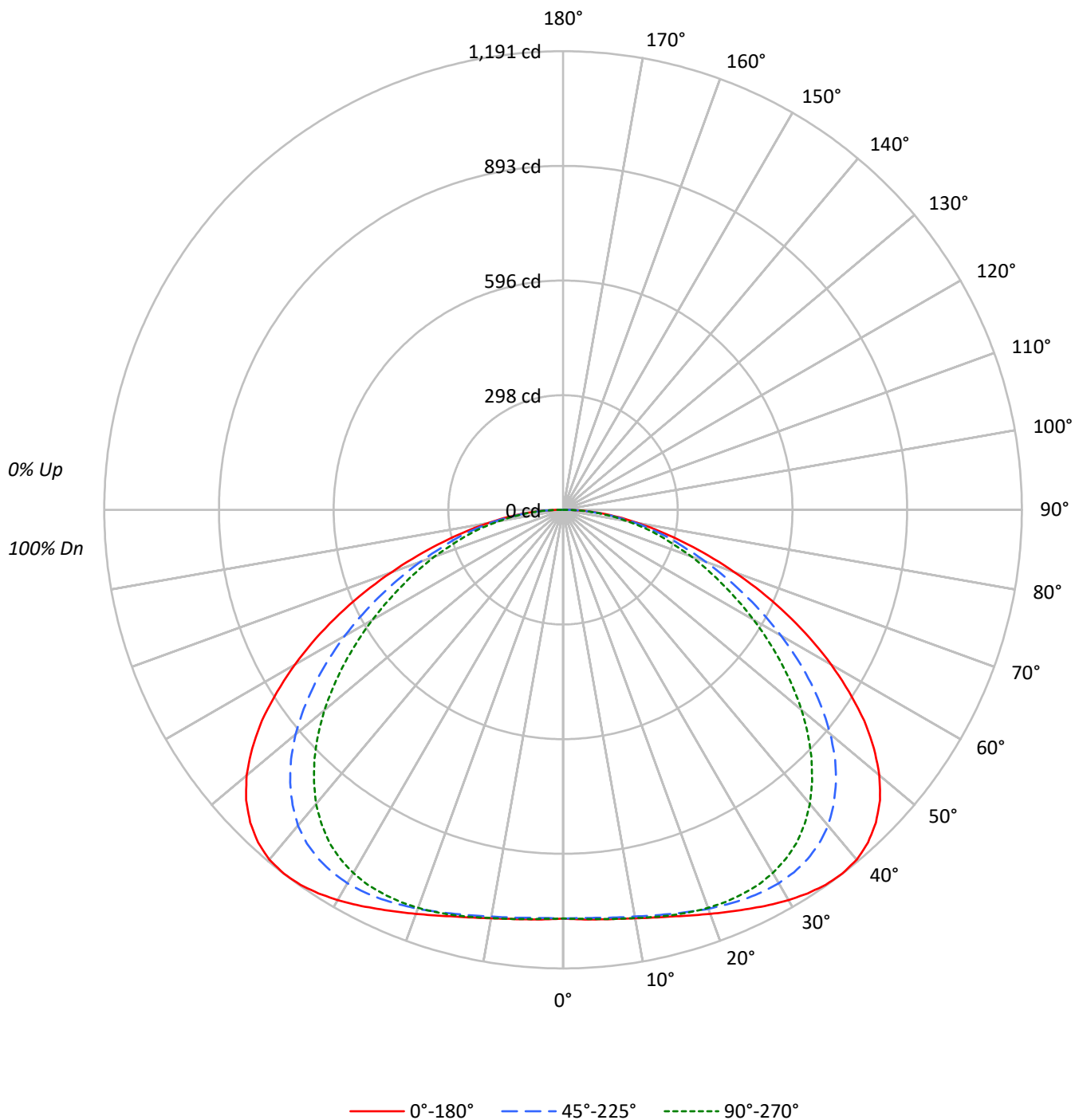
Lumens per Lamp: N/A
Luminaire Lumens: 4067.0 lumens
Efficiency: N/A
Efficacy: 92.0 lumens/watt
Spacing Criteria (0/90/45): 1.68 / 1.5 / 1.61
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 44.2
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	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°	2856	2856	2856
5°	2884	2873	2881
10°	2943	2930	2940
15°	3045	3026	3036
20°	3197	3158	3150
25°	3394	3312	3269
30°	3636	3479	3384
35°	3905	3636	3471
40°	4166	3760	3503
45°	4370	3812	3471
50°	4487	3792	3383
55°	4476	3687	3241
60°	4327	3518	3073
65°	4075	3305	2906
70°	3729	3094	2793
75°	3354	2979	2698
80°	3067	2895	2607
85°	2949	2770	2606

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 4496 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.0	2.5
10°-20°	309.3	7.6
20°-30°	517.5	12.7
30°-40°	697.3	17.1
40°-50°	782.1	19.2
50°-60°	717.7	17.6
60°-70°	530.8	13.1
70°-80°	308.8	7.6
80°-90°	101.5	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°	928.7	22.8
0°-40°	1626.0	40.0
0°-60°	3125.8	76.9
0°-90°	4067.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4067.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1061	1061	1061	1061	1061	
5°	1068	1067	1063	1064	1067	102
15°	1093	1091	1086	1087	1090	311
25°	1143	1134	1115	1103	1101	530
35°	1189	1164	1107	1068	1056	744
45°	1148	1105	1002	934	912	883
55°	954	899	786	713	691	848
65°	640	601	519	472	456	633
75°	323	318	286	264	260	346
85°	96	98	90	91	84	105
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1061.3	1061.3	1061.3	1061.3	1061.3
2.5°	1064.5	1064.5	1060.7	1061.8	1062.9
5°	1067.6	1067.1	1063.4	1063.9	1066.6
7.5°	1071.4	1071.4	1067.6	1067.6	1071.4
10°	1077.2	1076.1	1072.4	1073.5	1076.1
12.5°	1084.6	1082.5	1078.8	1079.9	1083.0
15°	1093.1	1091.0	1086.2	1087.3	1089.9
17.5°	1104.3	1101.1	1094.2	1094.2	1095.8
20°	1116.5	1111.2	1102.7	1098.4	1100.0
22.5°	1129.7	1122.8	1109.0	1101.6	1102.1
25°	1143.0	1134.5	1115.4	1103.2	1101.1
27.5°	1157.3	1145.1	1119.1	1102.1	1097.9
30°	1170.1	1154.7	1119.7	1096.3	1088.9
32.5°	1181.2	1161.0	1115.9	1085.2	1075.6
35°	1188.6	1163.7	1106.9	1068.2	1056.5
37.5°	1190.8	1160.5	1092.1	1044.8	1029.4
40°	1186.0	1150.4	1070.3	1014.1	997.1
42.5°	1171.7	1132.4	1039.5	976.9	956.7
45°	1148.3	1104.8	1001.8	933.9	912.2
47.5°	1115.9	1066.6	957.8	884.6	861.8
50°	1071.9	1019.9	905.8	831.0	808.2
52.5°	1017.2	963.1	848.0	774.2	749.8
55°	954.1	899.4	785.9	712.6	690.9
57.5°	880.3	829.9	720.6	651.1	630.4
60°	803.9	756.2	653.7	589.5	571.0
62.5°	723.3	679.7	586.4	528.5	512.6
65°	640.0	601.2	519.0	471.7	456.4
67.5°	556.6	526.9	454.8	412.8	404.3
70°	473.9	451.6	393.2	365.6	355.0
72.5°	395.3	383.7	334.8	316.3	301.9
75°	322.6	318.4	286.5	263.7	259.5
77.5°	256.8	263.2	235.6	219.2	215.4
80°	197.9	204.3	186.8	173.0	168.2
82.5°	144.3	152.8	135.3	132.1	127.4
85°	95.5	98.2	89.7	90.7	84.4
87.5°	46.7	52.0	47.2	48.8	45.6
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	17.8	19.5	18.2	19.9	20.2	16.0	17.7	16.4	18.1	18.4
	3H	19.6	21.1	20.0	21.5	21.8	17.8	19.3	18.1	19.6	20.0
	4H	20.2	21.7	20.6	22.0	22.4	18.5	19.9	18.9	20.3	20.6
	6H	20.7	22.1	21.1	22.4	22.8	19.0	20.4	19.5	20.8	21.1
	8H	20.9	22.2	21.3	22.6	23.0	19.3	20.5	19.7	20.9	21.3
	12H	21.0	22.3	21.5	22.7	23.1	19.4	20.7	19.9	21.1	21.5
4H	2H	18.3	19.7	18.7	20.1	20.4	16.8	18.3	17.2	18.6	19.0
	3H	20.3	21.5	20.7	21.9	22.3	18.7	20.0	19.2	20.4	20.8
	4H	21.1	22.2	21.5	22.6	23.0	19.6	20.7	20.0	21.1	21.5
	6H	21.7	22.7	22.2	23.1	23.6	20.3	21.3	20.7	21.7	22.1
	8H	22.0	22.9	22.4	23.3	23.8	20.6	21.5	21.0	21.9	22.4
	12H	22.1	23.0	22.6	23.4	23.9	20.8	21.6	21.3	22.1	22.6
8H	4H	21.3	22.2	21.8	22.7	23.1	20.0	20.9	20.4	21.3	21.8
	6H	22.1	22.9	22.6	23.4	23.8	20.8	21.6	21.3	22.1	22.6
	8H	22.4	23.1	22.9	23.6	24.1	21.2	21.9	21.7	22.4	22.9
	12H	22.7	23.3	23.2	23.8	24.4	21.5	22.2	22.1	22.6	23.2
12H	4H	21.3	22.2	21.8	22.6	23.1	20.1	20.9	20.5	21.4	21.8
	6H	22.2	22.9	22.7	23.3	23.9	21.0	21.7	21.5	22.1	22.6
	8H	22.6	23.2	23.1	23.7	24.2	21.4	22.0	21.9	22.5	23.0















(END OF REPORT)