

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: P1584183

Luminaire Tested: 14CGSB-45-F125-L940

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584183
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-L940
Description: CGTX with F125 Lens Option

Light Source:
Ballast/Driver: -

Summary

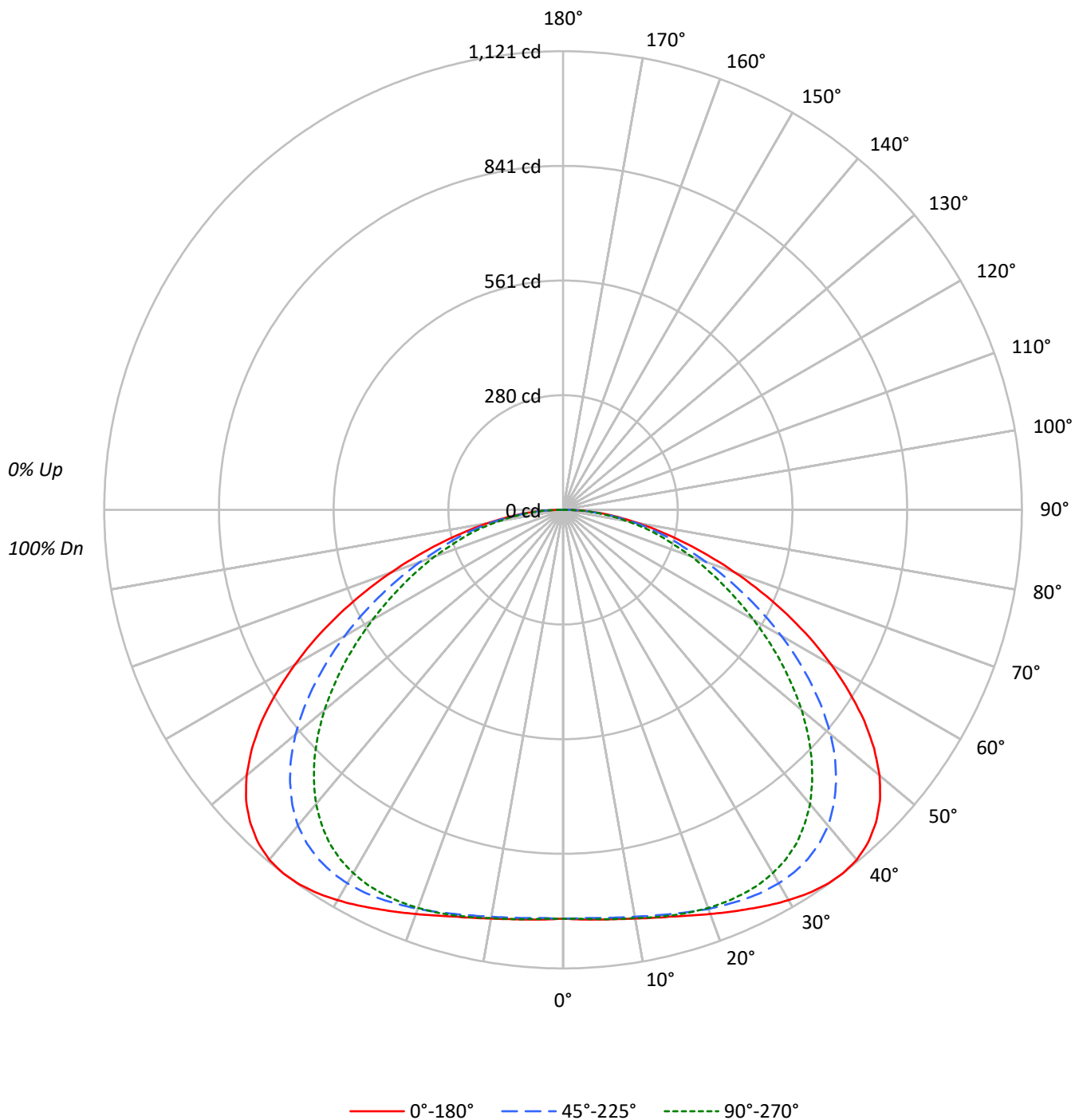
Lumens per Lamp: N/A
Luminaire Lumens: 3829.3 lumens
Efficiency: N/A
Efficacy: 77.4 lumens/watt
Spacing Criteria (0/90/45): 1.68 / 1.5 / 1.61
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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	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°	2689	2689	2689
5°	2716	2705	2713
10°	2772	2759	2769
15°	2867	2849	2859
20°	3010	2973	2966
25°	3195	3118	3078
30°	3423	3276	3186
35°	3677	3424	3268
40°	3923	3540	3298
45°	4115	3590	3269
50°	4225	3571	3185
55°	4214	3472	3052
60°	4074	3313	2893
65°	3837	3111	2736
70°	3511	2913	2630
75°	3159	2805	2540
80°	2889	2726	2455
85°	2776	2606	2452

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 4234 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.0	2.5
10°-20°	291.2	7.6
20°-30°	487.3	12.7
30°-40°	656.5	17.1
40°-50°	736.4	19.2
50°-60°	675.8	17.6
60°-70°	499.8	13.1
70°-80°	290.8	7.6
80°-90°	95.6	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°	874.5	22.8
0°-40°	1531.0	40.0
0°-60°	2943.2	76.9
0°-90°	3829.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3829.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	999	999	999	999	999	
5°	1005	1005	1001	1002	1004	96
15°	1029	1027	1023	1024	1026	293
25°	1076	1068	1050	1039	1037	499
35°	1119	1096	1042	1006	995	701
45°	1081	1040	943	879	859	831
55°	898	847	740	671	650	798
65°	603	566	489	444	430	596
75°	304	300	270	248	244	325
85°	90	92	84	85	79	99
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	999.3	999.3	999.3	999.3	999.3
2.5°	1002.3	1002.3	998.8	999.8	1000.8
5°	1005.3	1004.8	1001.3	1001.8	1004.3
7.5°	1008.8	1008.8	1005.3	1005.3	1008.8
10°	1014.3	1013.3	1009.8	1010.8	1013.3
12.5°	1021.3	1019.3	1015.8	1016.8	1019.8
15°	1029.2	1027.2	1022.8	1023.8	1026.3
17.5°	1039.7	1036.7	1030.2	1030.2	1031.7
20°	1051.2	1046.2	1038.2	1034.2	1035.7
22.5°	1063.7	1057.2	1044.2	1037.2	1037.7
25°	1076.2	1068.2	1050.2	1038.7	1036.7
27.5°	1089.7	1078.2	1053.7	1037.7	1033.7
30°	1101.7	1087.2	1054.2	1032.2	1025.3
32.5°	1112.2	1093.2	1050.7	1021.8	1012.8
35°	1119.2	1095.7	1042.2	1005.8	994.8
37.5°	1121.2	1092.7	1028.2	983.8	969.3
40°	1116.7	1083.2	1007.8	954.8	938.8
42.5°	1103.2	1066.2	978.8	919.8	900.8
45°	1081.2	1040.2	943.3	879.4	858.9
47.5°	1050.7	1004.3	901.8	832.9	811.4
50°	1009.3	960.3	852.9	782.4	760.9
52.5°	957.8	906.8	798.4	729.0	706.0
55°	898.3	846.9	740.0	671.0	650.5
57.5°	828.9	781.4	678.5	613.1	593.6
60°	756.9	712.0	615.6	555.1	537.6
62.5°	681.0	640.0	552.1	497.6	482.6
65°	602.6	566.1	488.6	444.2	429.7
67.5°	524.1	496.1	428.2	388.7	380.7
70°	446.2	425.2	370.2	344.2	334.3
72.5°	372.2	361.2	315.3	297.8	284.3
75°	303.8	299.8	269.8	248.3	244.3
77.5°	241.8	247.8	221.8	206.3	202.9
80°	186.4	192.4	175.9	162.9	158.4
82.5°	135.9	143.9	127.4	124.4	119.9
85°	89.9	92.4	84.4	85.4	79.4
87.5°	44.0	49.0	44.5	46.0	43.0
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	17.6	19.3	18.0	19.7	20.0	15.8	17.5	16.2	17.8	18.2
	3H	19.4	20.9	19.8	21.3	21.6	17.6	19.1	17.9	19.4	19.8
	4H	20.0	21.5	20.4	21.8	22.2	18.3	19.7	18.6	20.1	20.4
	6H	20.5	21.9	20.9	22.2	22.6	18.8	20.2	19.2	20.5	20.9
	8H	20.7	22.0	21.1	22.4	22.8	19.0	20.3	19.5	20.7	21.1
	12H	20.8	22.1	21.3	22.4	22.9	19.2	20.5	19.7	20.8	21.3
4H	2H	18.1	19.5	18.4	19.9	20.2	16.6	18.1	17.0	18.4	18.8
	3H	20.0	21.3	20.5	21.7	22.1	18.5	19.8	18.9	20.2	20.6
	4H	20.8	22.0	21.3	22.4	22.8	19.4	20.5	19.8	20.9	21.3
	6H	21.5	22.5	22.0	22.9	23.4	20.1	21.0	20.5	21.5	21.9
	8H	21.7	22.7	22.2	23.1	23.6	20.3	21.3	20.8	21.7	22.2
	12H	21.9	22.8	22.4	23.2	23.7	20.6	21.4	21.1	21.9	22.3
8H	4H	21.1	22.0	21.6	22.4	22.9	19.8	20.7	20.2	21.1	21.6
	6H	21.9	22.7	22.4	23.1	23.6	20.6	21.4	21.1	21.9	22.4
	8H	22.2	22.9	22.7	23.4	23.9	21.0	21.7	21.5	22.2	22.7
	12H	22.5	23.1	23.0	23.6	24.2	21.3	21.9	21.8	22.4	23.0
12H	4H	21.1	21.9	21.6	22.4	22.9	19.9	20.7	20.3	21.1	21.6
	6H	22.0	22.7	22.5	23.1	23.6	20.8	21.4	21.3	21.9	22.4
	8H	22.3	23.0	22.9	23.4	24.0	21.2	21.8	21.7	22.3	22.8















(END OF REPORT)