

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: P1584170

Luminaire Tested: 14CGSB-40-F125-L830

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584170
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-L830
Description: CGTX with F125 Lens Option

Light Source:
Ballast/Driver: -

Summary

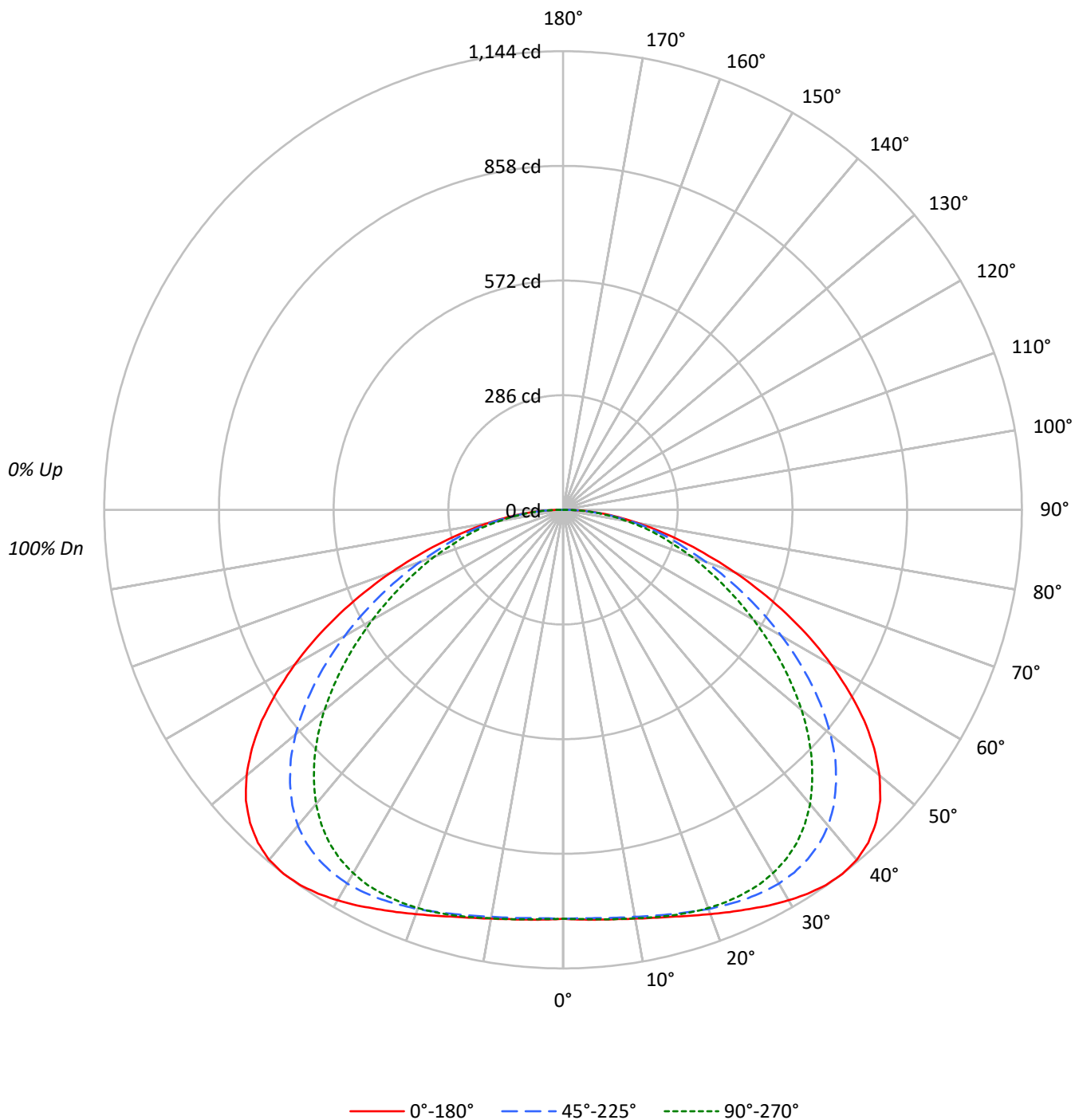
Lumens per Lamp: N/A
Luminaire Lumens: 3909.1 lumens
Efficiency: N/A
Efficacy: 88.4 lumens/watt
Spacing Criteria (0/90/45): 1.68 / 1.5 / 1.61
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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

TEST NUMBER: P1584170

CATALOG NUMBER: 14CGSB-40-F125-L830

Luminous Intensity Polar Plot



TEST NUMBER: P1584170

CATALOG NUMBER: 14CGSB-40-F125-L830

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°	2745	2745	2745
5°	2772	2761	2769
10°	2829	2817	2826
15°	2927	2908	2919
20°	3073	3035	3028
25°	3262	3183	3142
30°	3494	3344	3252
35°	3753	3495	3336
40°	4004	3614	3367
45°	4200	3664	3336
50°	4313	3645	3252
55°	4302	3544	3116
60°	4159	3382	2954
65°	3917	3176	2793
70°	3584	2973	2685
75°	3224	2863	2593
80°	2947	2782	2506
85°	2834	2661	2504

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 4322 cd/sqm

TEST NUMBER: P1584170

CATALOG NUMBER: 14CGSB-40-F125-L830

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.0	2.5
10°-20°	297.2	7.6
20°-30°	497.4	12.7
30°-40°	670.2	17.1
40°-50°	751.8	19.2
50°-60°	689.8	17.6
60°-70°	510.2	13.1
70°-80°	296.8	7.6
80°-90°	97.6	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°	892.7	22.8
0°-40°	1562.9	40.0
0°-60°	3004.5	76.9
0°-90°	3909.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3909.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1020	1020	1020	1020	1020	
5°	1026	1026	1022	1023	1025	98
15°	1051	1049	1044	1045	1048	299
25°	1099	1090	1072	1060	1058	509
35°	1142	1118	1064	1027	1016	715
45°	1104	1062	963	898	877	848
55°	917	864	755	685	664	815
65°	615	578	499	453	439	608
75°	310	306	275	254	249	332
85°	92	94	86	87	81	101
90°	0	0	0	0	0	

TEST NUMBER: P1584170

CATALOG NUMBER: 14CGSB-40-F125-L830

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1020.1	1020.1	1020.1	1020.1	1020.1
2.5°	1023.1	1023.1	1019.6	1020.6	1021.6
5°	1026.2	1025.7	1022.1	1022.6	1025.2
7.5°	1029.8	1029.8	1026.2	1026.2	1029.8
10°	1035.4	1034.3	1030.8	1031.8	1034.3
12.5°	1042.5	1040.5	1036.9	1037.9	1041.0
15°	1050.7	1048.6	1044.0	1045.1	1047.6
17.5°	1061.4	1058.3	1051.7	1051.7	1053.2
20°	1073.1	1068.0	1059.8	1055.8	1057.3
22.5°	1085.9	1079.2	1066.0	1058.8	1059.3
25°	1098.6	1090.4	1072.1	1060.4	1058.3
27.5°	1112.4	1100.7	1075.7	1059.3	1055.3
30°	1124.6	1109.8	1076.2	1053.7	1046.6
32.5°	1135.3	1116.0	1072.6	1043.0	1033.8
35°	1142.5	1118.5	1063.9	1026.7	1015.5
37.5°	1144.5	1115.4	1049.6	1004.3	989.5
40°	1139.9	1105.8	1028.7	974.7	958.4
42.5°	1126.2	1088.4	999.2	939.0	919.6
45°	1103.7	1061.9	962.9	897.7	876.7
47.5°	1072.6	1025.2	920.6	850.2	828.3
50°	1030.3	980.3	870.6	798.7	776.8
52.5°	977.7	925.7	815.0	744.1	720.7
55°	917.0	864.5	755.4	685.0	664.1
57.5°	846.1	797.7	692.6	625.8	605.9
60°	772.7	726.8	628.4	566.6	548.8
62.5°	695.2	653.4	563.6	508.0	492.7
65°	615.1	577.9	498.8	453.4	438.6
67.5°	535.0	506.5	437.1	396.8	388.6
70°	455.5	434.0	377.9	351.4	341.2
72.5°	380.0	368.8	321.8	304.0	290.2
75°	310.1	306.0	275.4	253.5	249.4
77.5°	246.9	253.0	226.5	210.6	207.1
80°	190.2	196.4	179.5	166.3	161.7
82.5°	138.7	146.9	130.1	127.0	122.4
85°	91.8	94.4	86.2	87.2	81.1
87.5°	44.9	50.0	45.4	46.9	43.9
90°	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P1584170

CATALOG NUMBER: 14CGSB-40-F125-L830

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	17.7	19.4	18.1	19.7	20.0	15.9	17.6	16.3	17.9	18.2
	3H	19.5	21.0	19.8	21.3	21.7	17.6	19.2	18.0	19.5	19.9
	4H	20.1	21.5	20.5	21.9	22.3	18.3	19.8	18.7	20.1	20.5
	6H	20.6	21.9	21.0	22.3	22.7	18.9	20.3	19.3	20.6	21.0
	8H	20.8	22.1	21.2	22.4	22.8	19.1	20.4	19.5	20.8	21.2
	12H	20.9	22.1	21.3	22.5	22.9	19.3	20.5	19.7	20.9	21.3
4H	2H	18.1	19.6	18.5	19.9	20.3	16.7	18.1	17.1	18.5	18.8
	3H	20.1	21.3	20.5	21.7	22.1	18.6	19.8	19.0	20.2	20.6
	4H	20.9	22.0	21.3	22.4	22.9	19.4	20.5	19.9	20.9	21.4
	6H	21.6	22.5	22.0	23.0	23.4	20.1	21.1	20.6	21.6	22.0
	8H	21.8	22.7	22.3	23.2	23.6	20.4	21.3	20.9	21.8	22.2
	12H	22.0	22.8	22.5	23.3	23.8	20.7	21.5	21.1	21.9	22.4
8H	4H	21.2	22.1	21.6	22.5	23.0	19.9	20.8	20.3	21.2	21.7
	6H	22.0	22.7	22.5	23.2	23.7	20.7	21.5	21.2	22.0	22.4
	8H	22.3	23.0	22.8	23.5	24.0	21.1	21.8	21.6	22.3	22.8
	12H	22.6	23.2	23.1	23.7	24.3	21.4	22.0	21.9	22.5	23.1
12H	4H	21.2	22.0	21.7	22.5	23.0	19.9	20.7	20.4	21.2	21.7
	6H	22.0	22.7	22.6	23.2	23.7	20.8	21.5	21.3	22.0	22.5
	8H	22.4	23.0	22.9	23.5	24.1	21.3	21.9	21.8	22.3	22.9















(END OF REPORT)