

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: P1584173

Luminaire Tested: 14CGSB-40-F125-L850

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584173
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-L850
Description: CGTX with F125 Lens Option

Light Source:
Ballast/Driver: -

Summary

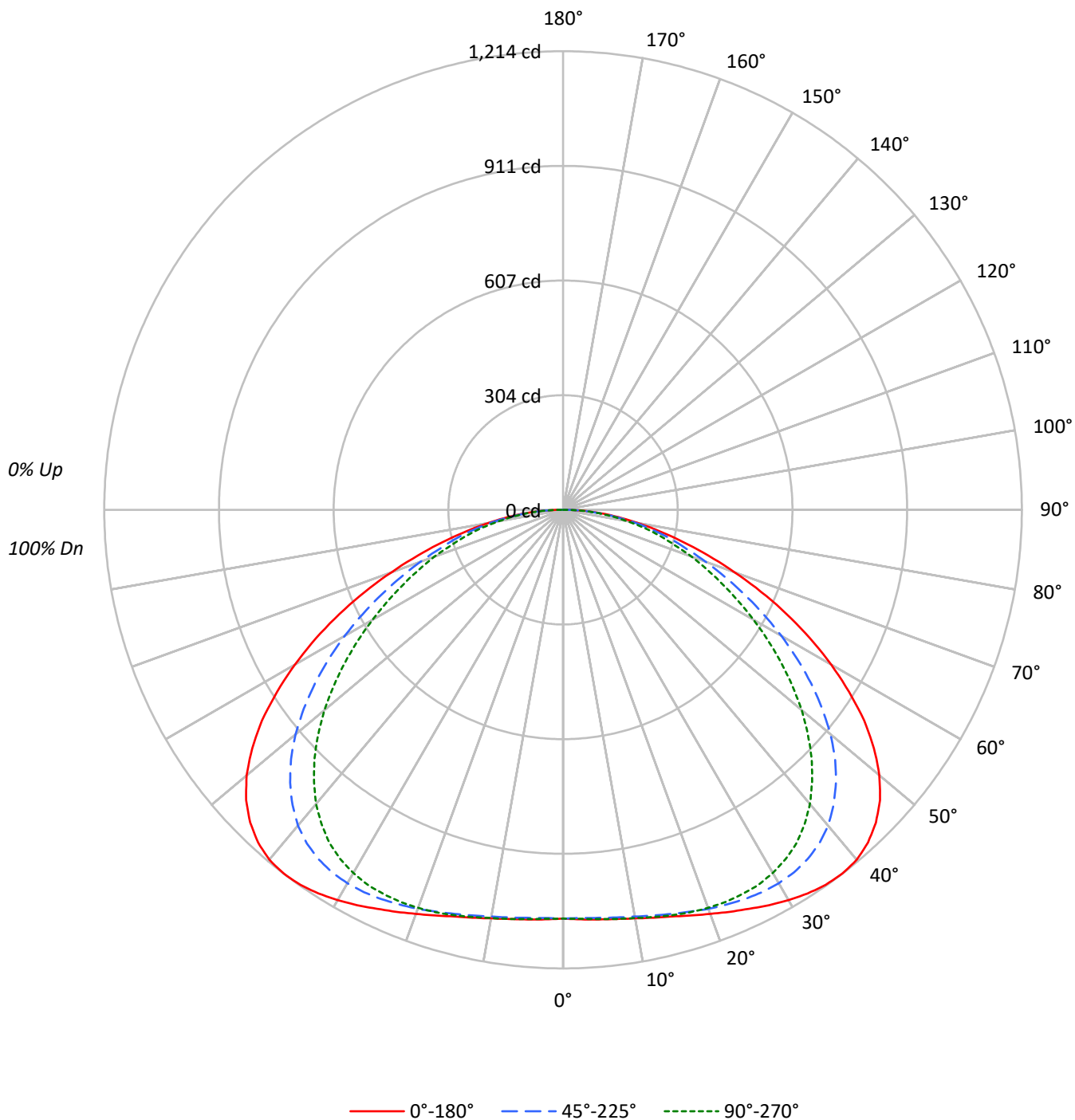
Lumens per Lamp: N/A
Luminaire Lumens: 4145.9 lumens
Efficiency: N/A
Efficacy: 93.8 lumens/watt
Spacing Criteria (0/90/45): 1.68 / 1.5 / 1.61
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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: P1584173

CATALOG NUMBER: 14CGSB-40-F125-L850

Luminous Intensity Polar Plot



CATALOG NUMBER: 14CGSB-40-F125-L850

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	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°	2911	2911	2911
5°	2940	2928	2937
10°	3001	2987	2998
15°	3104	3085	3095
20°	3259	3219	3211
25°	3460	3376	3333
30°	3706	3547	3449
35°	3981	3707	3538
40°	4247	3833	3570
45°	4455	3887	3539
50°	4575	3866	3449
55°	4563	3758	3304
60°	4411	3587	3133
65°	4154	3368	2962
70°	3801	3153	2847
75°	3420	3037	2750
80°	3127	2951	2658
85°	3007	2822	2655

MAXIMUM LUMINANCE 45°-90°:

Luminance: 4584 cd/sqm

TEST NUMBER: P1584173

CATALOG NUMBER: 14CGSB-40-F125-L850

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.0	2.5
10°-20°	315.3	7.6
20°-30°	527.6	12.7
30°-40°	710.8	17.1
40°-50°	797.3	19.2
50°-60°	731.6	17.6
60°-70°	541.1	13.1
70°-80°	314.8	7.6
80°-90°	103.5	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°	946.8	22.8
0°-40°	1657.6	40.0
0°-60°	3186.5	76.9
0°-90°	4145.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4145.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1082	1082	1082	1082	1082	
5°	1088	1088	1084	1085	1087	104
15°	1114	1112	1107	1108	1111	317
25°	1165	1156	1137	1125	1122	540
35°	1212	1186	1128	1089	1077	759
45°	1171	1126	1021	952	930	900
55°	973	917	801	726	704	864
65°	652	613	529	481	465	645
75°	329	325	292	269	264	352
85°	97	100	91	92	86	107
90°	0	0	0	0	0	

TEST NUMBER: P1584173

CATALOG NUMBER: 14CGSB-40-F125-L850

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1081.9	1081.9	1081.9	1081.9	1081.9
2.5°	1085.1	1085.1	1081.3	1082.4	1083.5
5°	1088.4	1087.8	1084.1	1084.6	1087.3
7.5°	1092.2	1092.2	1088.4	1088.4	1092.2
10°	1098.1	1097.0	1093.2	1094.3	1097.0
12.5°	1105.7	1103.5	1099.7	1100.8	1104.1
15°	1114.3	1112.2	1107.3	1108.4	1111.1
17.5°	1125.7	1122.5	1115.4	1115.4	1117.0
20°	1138.1	1132.7	1124.1	1119.8	1121.4
22.5°	1151.7	1144.6	1130.6	1123.0	1123.5
25°	1165.2	1156.5	1137.1	1124.6	1122.5
27.5°	1179.8	1167.4	1140.9	1123.5	1119.2
30°	1192.8	1177.1	1141.4	1117.6	1110.0
32.5°	1204.1	1183.6	1137.6	1106.2	1096.5
35°	1211.7	1186.3	1128.4	1088.9	1077.0
37.5°	1213.9	1183.0	1113.3	1065.1	1049.4
40°	1209.0	1172.8	1091.1	1033.7	1016.4
42.5°	1194.4	1154.4	1059.7	995.9	975.3
45°	1170.6	1126.2	1021.3	952.1	929.9
47.5°	1137.6	1087.3	976.4	901.8	878.5
50°	1092.7	1039.7	923.4	847.1	823.9
52.5°	1037.0	981.8	864.4	789.2	764.4
55°	972.6	916.9	801.1	726.5	704.3
57.5°	897.4	846.0	734.6	663.7	642.6
60°	819.5	770.8	666.4	601.0	582.1
62.5°	737.3	692.9	597.7	538.8	522.6
65°	652.4	612.9	529.0	480.9	465.2
67.5°	567.5	537.2	463.6	420.9	412.2
70°	483.1	460.3	400.8	372.7	361.9
72.5°	403.0	391.1	341.3	322.4	307.8
75°	328.9	324.6	292.1	268.8	264.5
77.5°	261.8	268.3	240.2	223.4	219.6
80°	201.8	208.3	190.4	176.3	171.5
82.5°	147.1	155.8	137.9	134.7	129.8
85°	97.4	100.1	91.4	92.5	86.0
87.5°	47.6	53.0	48.1	49.8	46.5
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1584173

CATALOG NUMBER: 14CGSB-40-F125-L850

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	17.9	19.6	18.3	19.9	20.2	16.1	17.8	16.5	18.1	18.4
	3H	19.7	21.2	20.0	21.5	21.9	17.8	19.4	18.2	19.7	20.1
	4H	20.3	21.8	20.7	22.1	22.5	18.5	20.0	18.9	20.3	20.7
	6H	20.8	22.1	21.2	22.5	22.9	19.1	20.5	19.5	20.8	21.2
	8H	21.0	22.3	21.4	22.6	23.0	19.3	20.6	19.7	21.0	21.4
	12H	21.1	22.3	21.5	22.7	23.1	19.5	20.7	19.9	21.1	21.5
4H	2H	18.3	19.8	18.7	20.1	20.5	16.9	18.3	17.3	18.7	19.1
	3H	20.3	21.5	20.7	21.9	22.3	18.8	20.0	19.2	20.4	20.8
	4H	21.1	22.2	21.6	22.6	23.1	19.6	20.7	20.1	21.2	21.6
	6H	21.8	22.8	22.2	23.2	23.6	20.3	21.3	20.8	21.8	22.2
	8H	22.0	22.9	22.5	23.4	23.8	20.6	21.5	21.1	22.0	22.4
	12H	22.2	23.0	22.7	23.5	24.0	20.9	21.7	21.3	22.2	22.6
8H	4H	21.4	22.3	21.8	22.7	23.2	20.1	21.0	20.5	21.4	21.9
	6H	22.2	22.9	22.7	23.4	23.9	20.9	21.7	21.4	22.2	22.6
	8H	22.5	23.2	23.0	23.7	24.2	21.3	22.0	21.8	22.5	23.0
	12H	22.8	23.4	23.3	23.9	24.5	21.6	22.2	22.1	22.7	23.3
12H	4H	21.4	22.2	21.9	22.7	23.2	20.1	21.0	20.6	21.4	21.9
	6H	22.2	22.9	22.8	23.4	23.9	21.0	21.7	21.5	22.2	22.7
	8H	22.6	23.2	23.1	23.7	24.3	21.5	22.1	22.0	22.6	23.1













(END OF REPORT)