

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: P1526982

Luminaire Tested: 14CGTX-42-F125-L850

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1526982
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2507-496-3)
Test Lab: INNOVATION CENTER
Issue Date: 8/24/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CGTX-42-F125-L850
Description: CGTX with F125 Lens Option

Light Source:
Ballast/Driver: -

Summary

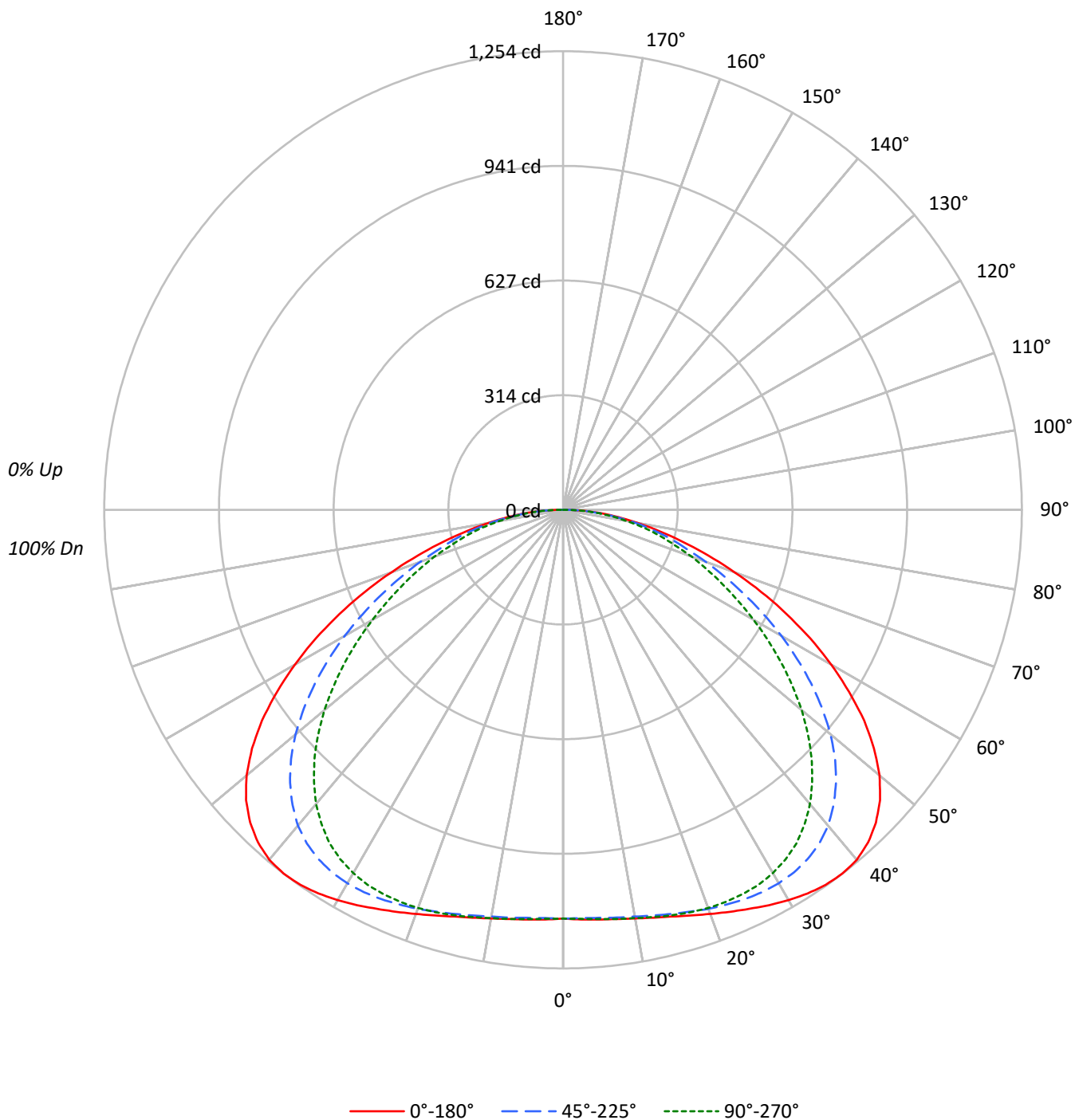
Lumens per Lamp: N/A
Luminaire Lumens: 4283.0 lumens
Efficiency: N/A
Efficacy: 135.1 lumens/watt
Spacing Criteria (0/90/45): 1.68 / 1.5 / 1.61
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 31.7
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: P1526982

CATALOG NUMBER: 14CGTX-42-F125-L850

Luminous Intensity Polar Plot



TEST NUMBER: P1526982

CATALOG NUMBER: 14CGTX-42-F125-L850

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°	3007	3007	3007
5°	3037	3025	3034
10°	3100	3086	3097
15°	3207	3187	3198
20°	3367	3325	3317
25°	3574	3488	3443
30°	3829	3664	3563
35°	4112	3829	3655
40°	4388	3959	3688
45°	4602	4015	3656
50°	4726	3993	3563
55°	4714	3883	3414
60°	4556	3705	3236
65°	4291	3480	3060
70°	3926	3258	2942
75°	3533	3138	2842
80°	3230	3048	2744
85°	3106	2915	2745

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 4736 cd/sqm

TEST NUMBER: P1526982

CATALOG NUMBER: 14CGTX-42-F125-L850

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.4	2.5
10°-20°	325.7	7.6
20°-30°	545.0	12.7
30°-40°	734.3	17.1
40°-50°	823.7	19.2
50°-60°	755.8	17.6
60°-70°	559.0	13.1
70°-80°	325.2	7.6
80°-90°	106.9	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°	978.1	22.8
0°-40°	1712.4	40.0
0°-60°	3291.9	76.9
0°-90°	4283.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4283.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1118	1118	1118	1118	1118	
5°	1124	1124	1120	1120	1123	108
15°	1151	1149	1144	1145	1148	327
25°	1204	1195	1175	1162	1160	558
35°	1252	1226	1166	1125	1113	784
45°	1209	1164	1055	984	961	929
55°	1005	947	828	750	728	893
65°	674	633	546	497	481	666
75°	340	335	302	278	273	364
85°	101	103	94	96	89	110
90°	0	0	0	0	0	

TEST NUMBER: P1526982

CATALOG NUMBER: 14CGTX-42-F125-L850

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1117.6	1117.6	1117.6	1117.6	1117.6
2.5°	1121.0	1121.0	1117.1	1118.2	1119.3
5°	1124.4	1123.8	1119.9	1120.4	1123.2
7.5°	1128.3	1128.3	1124.4	1124.4	1128.3
10°	1134.4	1133.3	1129.4	1130.5	1133.3
12.5°	1142.2	1140.0	1136.1	1137.2	1140.6
15°	1151.2	1148.9	1143.9	1145.0	1147.8
17.5°	1162.9	1159.6	1152.3	1152.3	1154.0
20°	1175.8	1170.2	1161.2	1156.8	1158.4
22.5°	1189.7	1182.5	1167.9	1160.1	1160.7
25°	1203.7	1194.8	1174.6	1161.8	1159.6
27.5°	1218.8	1205.9	1178.6	1160.7	1156.2
30°	1232.2	1216.0	1179.1	1154.5	1146.7
32.5°	1243.9	1222.7	1175.2	1142.8	1132.7
35°	1251.8	1225.5	1165.7	1124.9	1112.6
37.5°	1254.0	1222.1	1150.1	1100.3	1084.1
40°	1249.0	1211.5	1127.1	1067.9	1050.0
42.5°	1233.9	1192.5	1094.7	1028.8	1007.6
45°	1209.3	1163.5	1055.1	983.5	960.6
47.5°	1175.2	1123.2	1008.7	931.6	907.5
50°	1128.8	1074.1	953.9	875.1	851.1
52.5°	1071.3	1014.3	893.0	815.3	789.6
55°	1004.8	947.2	827.6	750.5	727.6
57.5°	927.1	874.0	758.9	685.7	663.9
60°	846.6	796.3	688.5	620.9	601.3
62.5°	761.7	715.9	617.5	556.6	539.8
65°	673.9	633.1	546.5	496.8	480.6
67.5°	586.2	554.9	478.9	434.8	425.8
70°	499.0	475.6	414.1	385.0	373.9
72.5°	416.3	404.0	352.6	333.1	318.0
75°	339.8	335.3	301.8	277.7	273.3
77.5°	270.5	277.2	248.1	230.8	226.9
80°	208.4	215.1	196.7	182.2	177.1
82.5°	152.0	160.9	142.5	139.1	134.1
85°	100.6	103.4	94.4	95.6	88.9
87.5°	49.2	54.8	49.7	51.4	48.1
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1526982

CATALOG NUMBER: 14CGTX-42-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	18.0	19.7	18.4	20.0	20.4	16.2	17.9	16.6	18.2	18.5
	3H	19.8	21.3	20.2	21.6	22.0	17.9	19.5	18.3	19.8	20.2
	4H	20.4	21.9	20.8	22.2	22.6	18.6	20.1	19.0	20.4	20.8
	6H	20.9	22.3	21.3	22.6	23.0	19.2	20.6	19.6	20.9	21.3
	8H	21.1	22.4	21.5	22.8	23.2	19.4	20.7	19.9	21.1	21.5
	12H	21.2	22.4	21.6	22.8	23.3	19.6	20.8	20.0	21.2	21.7
4H	2H	18.4	19.9	18.8	20.2	20.6	17.0	18.4	17.4	18.8	19.2
	3H	20.4	21.7	20.8	22.1	22.5	18.9	20.2	19.3	20.5	20.9
	4H	21.2	22.3	21.7	22.8	23.2	19.7	20.9	20.2	21.3	21.7
	6H	21.9	22.9	22.3	23.3	23.8	20.5	21.4	20.9	21.9	22.3
	8H	22.1	23.0	22.6	23.5	23.9	20.7	21.6	21.2	22.1	22.6
	12H	22.3	23.2	22.8	23.6	24.1	21.0	21.8	21.4	22.3	22.7
8H	4H	21.5	22.4	21.9	22.8	23.3	20.2	21.1	20.6	21.5	22.0
	6H	22.3	23.0	22.8	23.5	24.0	21.0	21.8	21.5	22.3	22.7
	8H	22.6	23.3	23.1	23.8	24.3	21.4	22.1	21.9	22.6	23.1
	12H	22.9	23.5	23.4	24.0	24.6	21.7	22.3	22.2	22.8	23.4
12H	4H	21.5	22.3	22.0	22.8	23.3	20.2	21.1	20.7	21.5	22.0
	6H	22.4	23.0	22.9	23.5	24.0	21.1	21.8	21.7	22.3	22.8
	8H	22.7	23.3	23.2	23.8	24.4	21.6	22.2	22.1	22.7	23.2













(END OF REPORT)