

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: P1526981

Luminaire Tested: 14CGTX-42-F125-L840

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1526981
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-L840
Description: CGTX with F125 Lens Option

Light Source:
Ballast/Driver: -

Summary

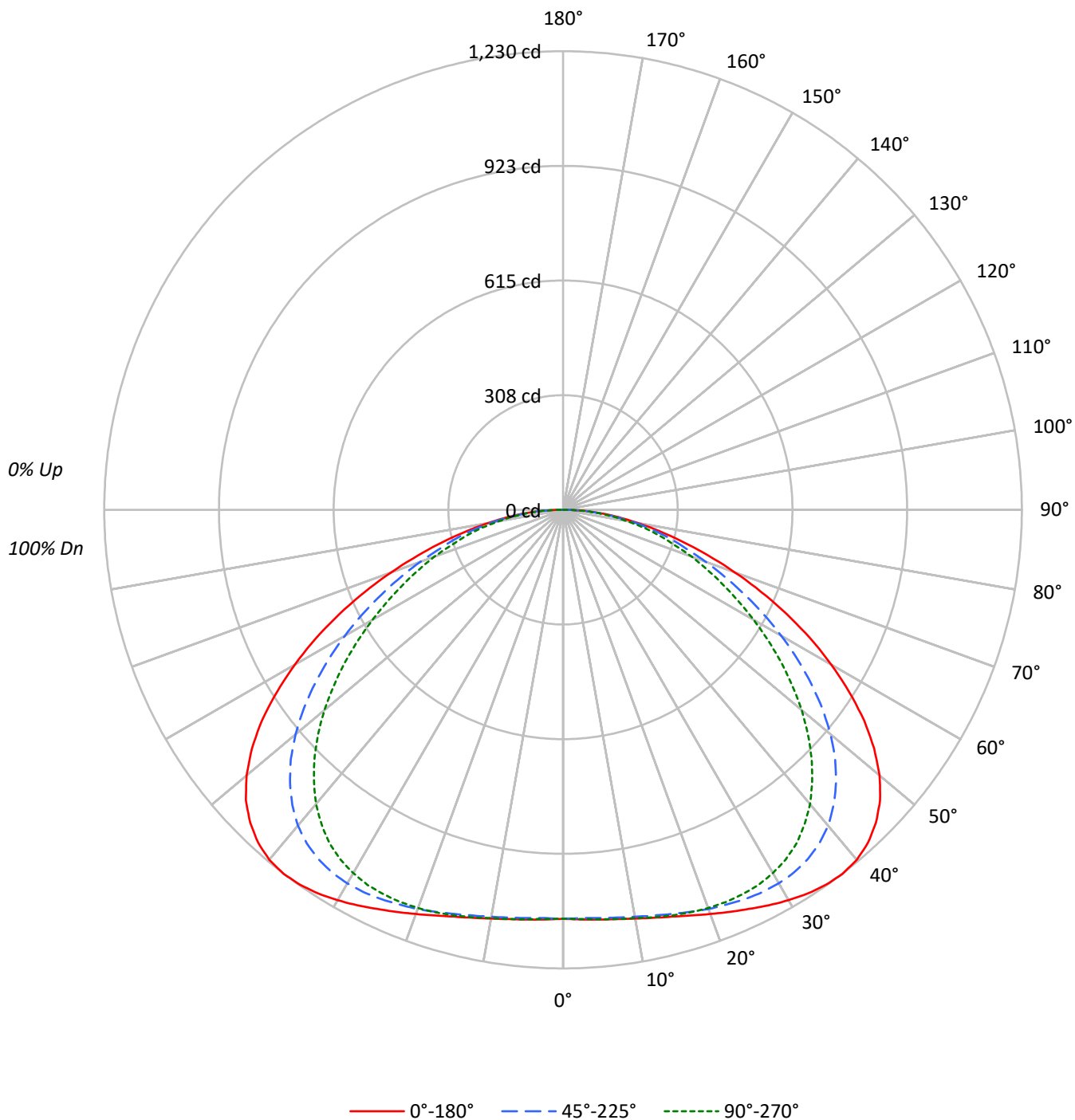
Lumens per Lamp: N/A
Luminaire Lumens: 4202.0 lumens
Efficiency: N/A
Efficacy: 132.6 lumens/watt
Spacing Criteria (0/90/45): 1.68 / 1.5 / 1.61
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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: P1526981

CATALOG NUMBER: 14CGTX-42-F125-L840

Luminous Intensity Polar Plot



TEST NUMBER: P1526981

CATALOG NUMBER: 14CGTX-42-F125-L840

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°	2951	2951	2951
5°	2980	2968	2977
10°	3041	3028	3038
15°	3146	3127	3137
20°	3303	3263	3255
25°	3506	3422	3378
30°	3756	3594	3496
35°	4034	3757	3586
40°	4304	3884	3619
45°	4515	3939	3586
50°	4636	3918	3496
55°	4625	3810	3349
60°	4470	3635	3175
65°	4210	3414	3002
70°	3852	3197	2886
75°	3465	3079	2787
80°	3169	2991	2693
85°	3047	2862	2692

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 4646 cd/sqm

TEST NUMBER: P1526981

CATALOG NUMBER: 14CGTX-42-F125-L840

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.4	2.5
10°-20°	319.5	7.6
20°-30°	534.7	12.7
30°-40°	720.4	17.1
40°-50°	808.1	19.2
50°-60°	741.5	17.6
60°-70°	548.4	13.1
70°-80°	319.1	7.6
80°-90°	104.9	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°	959.6	22.8
0°-40°	1680.0	40.0
0°-60°	3229.6	76.9
0°-90°	4202.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4202.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1096	1096	1096	1096	1096	
5°	1103	1102	1099	1099	1102	106
15°	1129	1127	1122	1123	1126	321
25°	1181	1172	1152	1140	1138	548
35°	1228	1202	1144	1104	1092	769
45°	1186	1142	1035	965	942	912
55°	986	929	812	736	714	876
65°	661	621	536	487	472	654
75°	333	329	296	272	268	357
85°	99	101	93	94	87	108
90°	0	0	0	0	0	

TEST NUMBER: P1526981

CATALOG NUMBER: 14CGTX-42-F125-L840

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1096.5	1096.5	1096.5	1096.5	1096.5
2.5°	1099.8	1099.8	1096.0	1097.1	1098.2
5°	1103.1	1102.5	1098.7	1099.2	1102.0
7.5°	1106.9	1106.9	1103.1	1103.1	1106.9
10°	1113.0	1111.9	1108.0	1109.1	1111.9
12.5°	1120.6	1118.4	1114.6	1115.7	1119.0
15°	1129.4	1127.2	1122.3	1123.4	1126.1
17.5°	1140.9	1137.6	1130.5	1130.5	1132.1
20°	1153.5	1148.0	1139.3	1134.9	1136.5
22.5°	1167.2	1160.1	1145.9	1138.2	1138.7
25°	1180.9	1172.2	1152.4	1139.8	1137.6
27.5°	1195.7	1183.1	1156.3	1138.7	1134.3
30°	1208.9	1193.0	1156.8	1132.7	1125.0
32.5°	1220.4	1199.6	1153.0	1121.2	1111.3
35°	1228.1	1202.3	1143.7	1103.6	1091.6
37.5°	1230.3	1199.0	1128.3	1079.5	1063.6
40°	1225.3	1188.6	1105.8	1047.7	1030.2
42.5°	1210.5	1170.0	1074.0	1009.3	988.5
45°	1186.4	1141.5	1035.1	964.9	942.4
47.5°	1153.0	1102.0	989.6	913.9	890.4
50°	1107.5	1053.7	935.9	858.6	835.0
52.5°	1051.0	995.1	876.1	799.9	774.7
55°	985.8	929.3	812.0	736.3	713.8
57.5°	909.6	857.5	744.5	672.7	651.3
60°	830.6	781.3	675.4	609.1	589.9
62.5°	747.3	702.3	605.8	546.1	529.6
65°	661.2	621.2	536.2	487.4	471.5
67.5°	575.1	544.4	469.9	426.5	417.8
70°	489.6	466.6	406.3	377.7	366.8
72.5°	408.4	396.4	345.9	326.8	312.0
75°	333.3	329.0	296.1	272.5	268.1
77.5°	265.4	271.9	243.4	226.4	222.6
80°	204.5	211.1	193.0	178.7	173.8
82.5°	149.1	157.9	139.8	136.5	131.6
85°	98.7	101.4	92.7	93.8	87.2
87.5°	48.2	53.7	48.8	50.4	47.1
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1526981

CATALOG NUMBER: 14CGTX-42-F125-L840

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	18.3	20.0	20.3	16.2	17.9	16.5	18.2	18.5
	3H	19.7	21.2	20.1	21.6	21.9	17.9	19.4	18.3	19.7	20.1
	4H	20.3	21.8	20.7	22.1	22.5	18.6	20.0	19.0	20.4	20.7
	6H	20.8	22.2	21.2	22.6	22.9	19.2	20.5	19.6	20.9	21.3
	8H	21.0	22.3	21.4	22.7	23.1	19.4	20.7	19.8	21.1	21.4
	12H	21.1	22.4	21.6	22.8	23.2	19.5	20.8	20.0	21.2	21.6
4H	2H	18.4	19.8	18.8	20.2	20.5	16.9	18.4	17.3	18.7	19.1
	3H	20.4	21.6	20.8	22.0	22.4	18.9	20.1	19.3	20.5	20.9
	4H	21.2	22.3	21.6	22.7	23.1	19.7	20.8	20.1	21.2	21.6
	6H	21.8	22.8	22.3	23.2	23.7	20.4	21.4	20.8	21.8	22.3
	8H	22.1	23.0	22.5	23.4	23.9	20.7	21.6	21.1	22.0	22.5
	12H	22.3	23.1	22.7	23.6	24.0	20.9	21.7	21.4	22.2	22.7
8H	4H	21.4	22.3	21.9	22.8	23.2	20.1	21.0	20.6	21.5	21.9
	6H	22.2	23.0	22.7	23.5	23.9	21.0	21.7	21.5	22.2	22.7
	8H	22.6	23.2	23.1	23.7	24.2	21.3	22.0	21.8	22.5	23.0
	12H	22.8	23.5	23.4	23.9	24.5	21.7	22.3	22.2	22.8	23.3
12H	4H	21.4	22.3	21.9	22.7	23.2	20.2	21.0	20.7	21.5	21.9
	6H	22.3	23.0	22.8	23.4	24.0	21.1	21.8	21.6	22.2	22.8
	8H	22.7	23.3	23.2	23.8	24.3	21.5	22.1	22.0	22.6	23.2













(END OF REPORT)