

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: P1526986

Luminaire Tested: 14CGTX-42HE-F125-L850

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1526986
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-42HE-F125-L850
Description: CGTX with F125 Lens Option

Light Source:
Ballast/Driver: -

Summary

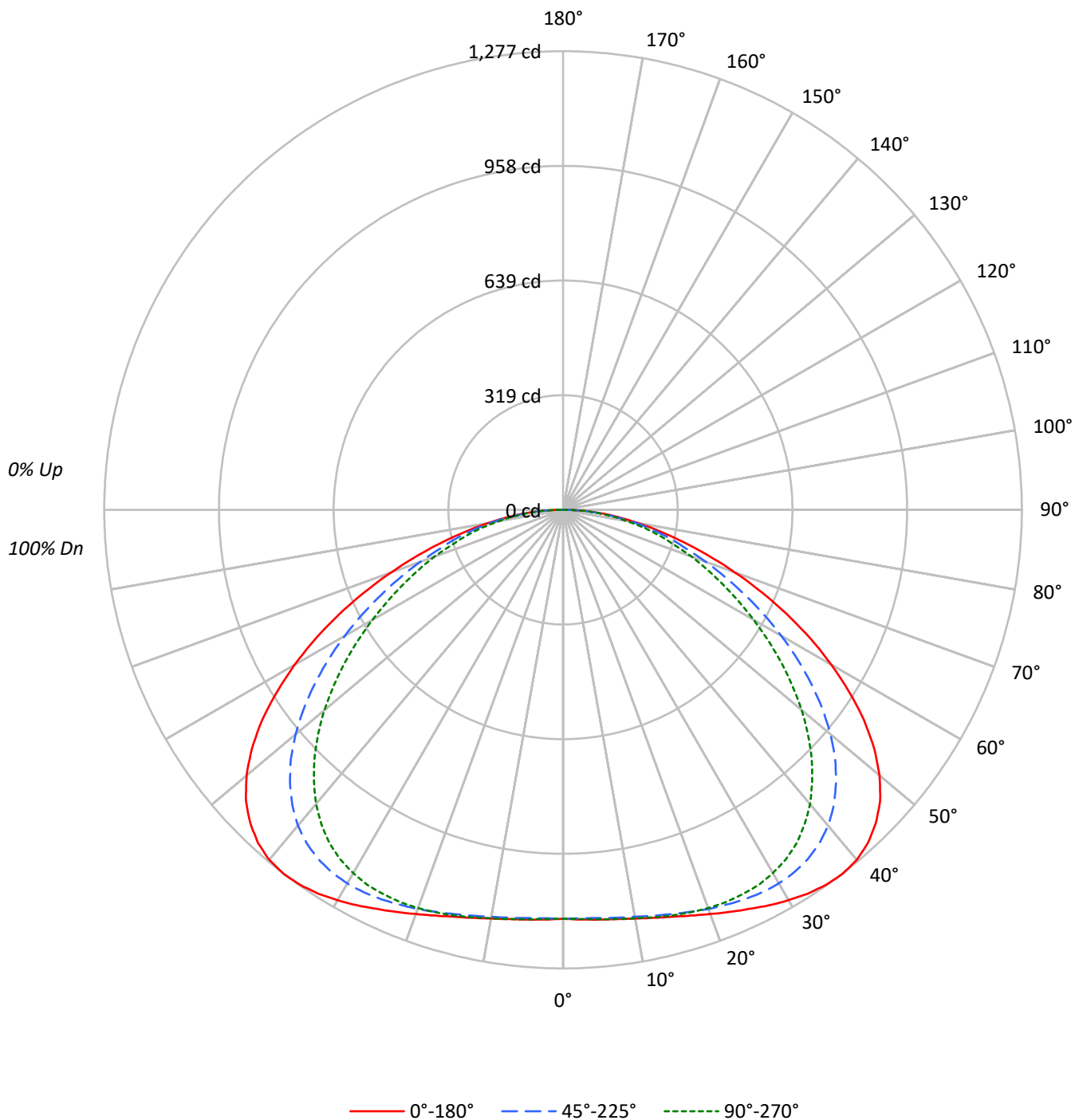
Lumens per Lamp: N/A
Luminaire Lumens: 4363.0 lumens
Efficiency: N/A
Efficacy: 136.8 lumens/watt
Spacing Criteria (0/90/45): 1.68 / 1.5 / 1.61
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 31.9
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: P1526986

CATALOG NUMBER: 14CGTX-42HE-F125-L850

Luminous Intensity Polar Plot



TEST NUMBER: P1526986

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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		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°	3064	3064	3064
5°	3094	3082	3091
10°	3158	3144	3155
15°	3267	3246	3258
20°	3430	3387	3379
25°	3641	3553	3507
30°	3900	3732	3630
35°	4189	3901	3723
40°	4469	4033	3757
45°	4688	4090	3724
50°	4814	4068	3630
55°	4802	3955	3477
60°	4641	3774	3296
65°	4371	3545	3117
70°	3999	3319	2996
75°	3598	3196	2895
80°	3290	3106	2797
85°	3165	2970	2794

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 4824 cd/sqm

TEST NUMBER: P1526986

CATALOG NUMBER: 14CGTX-42HE-F125-L850

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.4	2.5
10°-20°	331.8	7.6
20°-30°	555.2	12.7
30°-40°	748.0	17.1
40°-50°	839.1	19.2
50°-60°	769.9	17.6
60°-70°	569.5	13.1
70°-80°	331.3	7.6
80°-90°	108.9	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°	996.4	22.8
0°-40°	1744.4	40.0
0°-60°	3353.4	76.9
0°-90°	4363.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4363.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1138	1138	1138	1138	1138	
5°	1145	1145	1141	1141	1144	110
15°	1173	1170	1165	1166	1169	334
25°	1226	1217	1197	1184	1181	569
35°	1275	1248	1188	1146	1133	799
45°	1232	1185	1075	1002	979	947
55°	1024	965	843	764	741	909
65°	686	645	557	506	490	679
75°	346	342	307	283	278	371
85°	102	105	96	97	90	113
90°	0	0	0	0	0	

TEST NUMBER: P1526986

CATALOG NUMBER: 14CGTX-42HE-F125-L850

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1138.5	1138.5	1138.5	1138.5	1138.5
2.5°	1141.9	1141.9	1138.0	1139.1	1140.2
5°	1145.4	1144.8	1140.8	1141.4	1144.2
7.5°	1149.3	1149.3	1145.4	1145.4	1149.3
10°	1155.6	1154.5	1150.5	1151.6	1154.5
12.5°	1163.6	1161.3	1157.3	1158.4	1161.9
15°	1172.7	1170.4	1165.3	1166.4	1169.3
17.5°	1184.6	1181.2	1173.8	1173.8	1175.5
20°	1197.7	1192.0	1182.9	1178.4	1180.1
22.5°	1212.0	1204.6	1189.8	1181.8	1182.4
25°	1226.2	1217.1	1196.6	1183.5	1181.2
27.5°	1241.6	1228.5	1200.6	1182.4	1177.8
30°	1255.2	1238.7	1201.1	1176.1	1168.1
32.5°	1267.2	1245.5	1197.2	1164.1	1153.9
35°	1275.1	1248.4	1187.5	1145.9	1133.4
37.5°	1277.4	1245.0	1171.5	1120.9	1104.4
40°	1272.3	1234.2	1148.2	1087.9	1069.6
42.5°	1256.9	1214.8	1115.2	1048.0	1026.4
45°	1231.9	1185.2	1074.8	1001.9	978.6
47.5°	1197.2	1144.2	1027.5	949.0	924.5
50°	1149.9	1094.1	971.7	891.5	867.0
52.5°	1091.3	1033.2	909.7	830.6	804.4
55°	1023.5	964.9	843.1	764.5	741.2
57.5°	944.4	890.3	773.1	698.5	676.3
60°	862.4	811.2	701.3	632.4	612.5
62.5°	775.9	729.2	629.0	567.0	549.9
65°	686.5	645.0	556.7	506.1	489.6
67.5°	597.2	565.3	487.9	442.9	433.8
70°	508.3	484.4	421.8	392.2	380.8
72.5°	424.1	411.6	359.2	339.3	323.9
75°	346.1	341.6	307.4	282.9	278.4
77.5°	275.5	282.4	252.8	235.1	231.1
80°	212.3	219.2	200.4	185.6	180.5
82.5°	154.8	163.9	145.2	141.7	136.6
85°	102.5	105.3	96.2	97.3	90.5
87.5°	50.1	55.8	50.7	52.4	49.0
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1526986

CATALOG NUMBER: 14CGTX-42HE-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	18.1	19.8	18.5	20.1	20.4	16.3	18.0	16.7	18.3	18.6
	3H	19.8	21.4	20.2	21.7	22.1	18.0	19.5	18.4	19.9	20.2
	4H	20.5	21.9	20.9	22.3	22.7	18.7	20.2	19.1	20.5	20.9
	6H	21.0	22.3	21.4	22.7	23.1	19.3	20.6	19.7	21.0	21.4
	8H	21.1	22.4	21.6	22.8	23.2	19.5	20.8	19.9	21.2	21.6
	12H	21.3	22.5	21.7	22.9	23.3	19.7	20.9	20.1	21.3	21.7
4H	2H	18.5	20.0	18.9	20.3	20.7	17.1	18.5	17.5	18.9	19.2
	3H	20.5	21.7	20.9	22.1	22.5	19.0	20.2	19.4	20.6	21.0
	4H	21.3	22.4	21.7	22.8	23.3	19.8	20.9	20.2	21.3	21.8
	6H	22.0	22.9	22.4	23.4	23.8	20.5	21.5	21.0	21.9	22.4
	8H	22.2	23.1	22.7	23.5	24.0	20.8	21.7	21.3	22.2	22.6
	12H	22.4	23.2	22.9	23.7	24.2	21.0	21.9	21.5	22.3	22.8
8H	4H	21.5	22.5	22.0	22.9	23.4	20.2	21.1	20.7	21.6	22.1
	6H	22.3	23.1	22.8	23.6	24.1	21.1	21.9	21.6	22.3	22.8
	8H	22.7	23.4	23.2	23.9	24.4	21.5	22.1	22.0	22.6	23.1
	12H	23.0	23.6	23.5	24.1	24.6	21.8	22.4	22.3	22.9	23.4
12H	4H	21.6	22.4	22.1	22.9	23.3	20.3	21.1	20.8	21.6	22.1
	6H	22.4	23.1	22.9	23.6	24.1	21.2	21.9	21.7	22.4	22.9
	8H	22.8	23.4	23.3	23.9	24.5	21.6	22.2	22.1	22.7	23.3













(END OF REPORT)