

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: P1526984

Luminaire Tested: 14CGTX-42HE-F125-L835

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1526984
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-L835
Description: CGTX with F125 Lens Option

Light Source:
Ballast/Driver: -

Summary

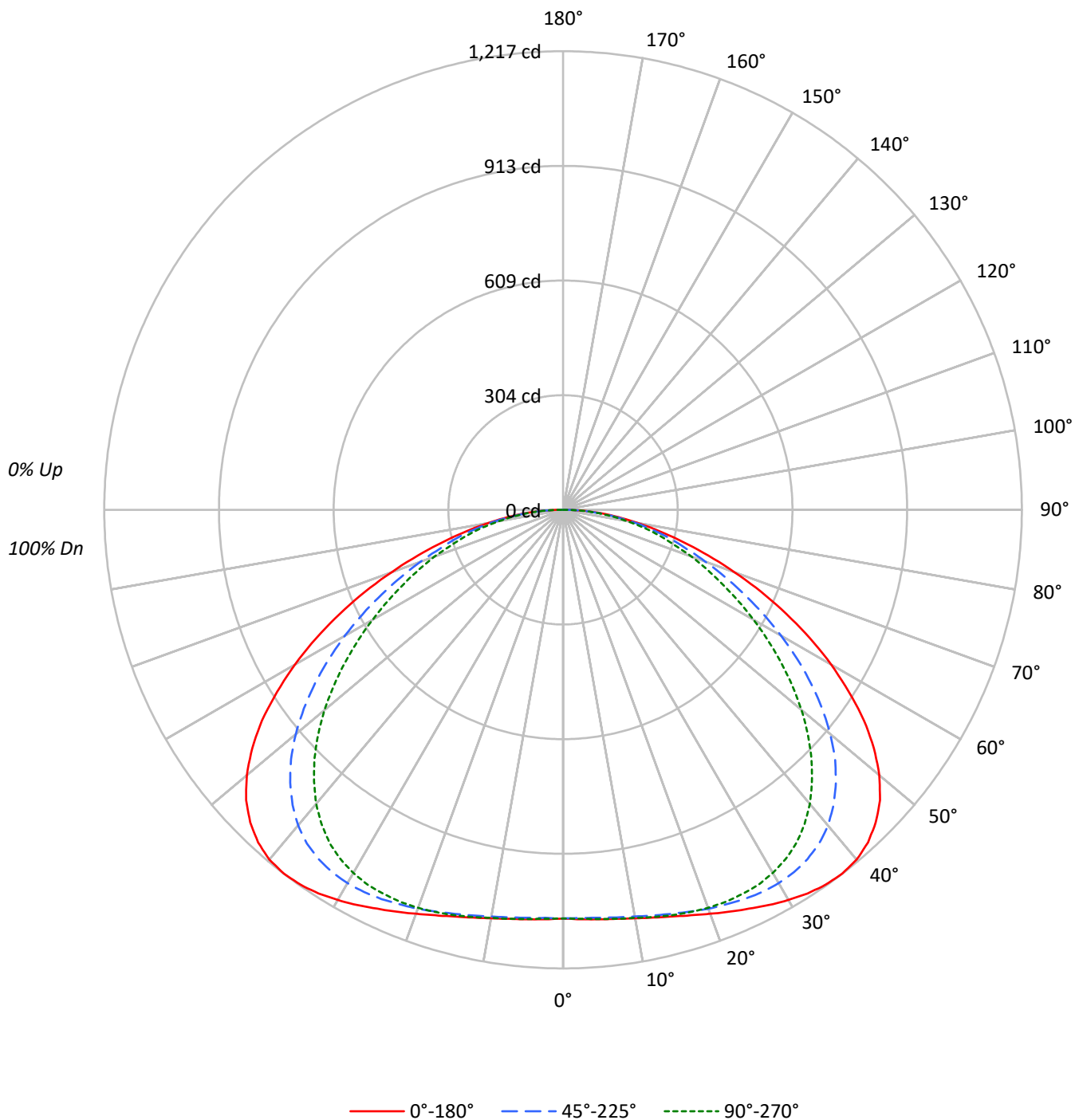
Lumens per Lamp: N/A
Luminaire Lumens: 4155.3 lumens
Efficiency: N/A
Efficacy: 130.3 lumens/watt
Spacing Criteria (0/90/45): 1.68 / 1.5 / 1.61
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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

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Luminous Intensity Polar Plot



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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°	2918	2918	2918
5°	2947	2935	2944
10°	3007	2994	3004
15°	3112	3092	3102
20°	3267	3226	3218
25°	3467	3384	3340
30°	3715	3555	3457
35°	3989	3715	3546
40°	4256	3841	3579
45°	4465	3895	3547
50°	4585	3875	3457
55°	4573	3767	3312
60°	4421	3595	3140
65°	4163	3376	2969
70°	3810	3161	2854
75°	3427	3044	2756
80°	3133	2957	2664
85°	3013	2828	2661

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 4594 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.2	2.5
10°-20°	316.0	7.6
20°-30°	528.7	12.7
30°-40°	712.4	17.1
40°-50°	799.1	19.2
50°-60°	733.3	17.6
60°-70°	542.3	13.1
70°-80°	315.5	7.6
80°-90°	103.7	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°	948.9	22.8
0°-40°	1661.3	40.0
0°-60°	3193.7	76.9
0°-90°	4155.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4155.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1084	1084	1084	1084	1084	
5°	1091	1090	1086	1087	1090	104
15°	1117	1115	1110	1111	1114	318
25°	1168	1159	1140	1127	1125	541
35°	1214	1189	1131	1091	1079	761
45°	1173	1129	1024	954	932	902
55°	975	919	803	728	706	866
65°	654	614	530	482	466	647
75°	330	325	293	270	265	353
85°	98	100	92	93	86	107
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1084.3	1084.3	1084.3	1084.3	1084.3
2.5°	1087.6	1087.6	1083.8	1084.9	1086.0
5°	1090.8	1090.3	1086.5	1087.0	1089.7
7.5°	1094.6	1094.6	1090.8	1090.8	1094.6
10°	1100.6	1099.5	1095.7	1096.8	1099.5
12.5°	1108.2	1106.0	1102.2	1103.3	1106.6
15°	1116.9	1114.7	1109.8	1110.9	1113.6
17.5°	1128.2	1125.0	1117.9	1117.9	1119.6
20°	1140.7	1135.3	1126.6	1122.3	1123.9
22.5°	1154.3	1147.2	1133.1	1125.5	1126.1
25°	1167.8	1159.1	1139.6	1127.2	1125.0
27.5°	1182.5	1170.0	1143.4	1126.1	1121.7
30°	1195.5	1179.7	1144.0	1120.1	1112.5
32.5°	1206.9	1186.3	1140.2	1108.7	1099.0
35°	1214.4	1189.0	1131.0	1091.4	1079.4
37.5°	1216.6	1185.7	1115.8	1067.5	1051.8
40°	1211.7	1175.4	1093.5	1036.1	1018.7
42.5°	1197.1	1157.0	1062.1	998.1	977.5
45°	1173.2	1128.8	1023.6	954.2	932.0
47.5°	1140.2	1089.7	978.6	903.8	880.5
50°	1095.2	1042.0	925.5	849.0	825.7
52.5°	1039.3	984.0	866.4	791.0	766.1
55°	974.8	919.0	802.9	728.1	705.9
57.5°	899.4	847.9	736.3	665.2	644.1
60°	821.4	772.6	667.9	602.3	583.4
62.5°	739.0	694.5	599.1	540.0	523.7
65°	653.8	614.3	530.2	482.0	466.3
67.5°	568.7	538.4	464.6	421.8	413.1
70°	484.2	461.4	401.7	373.5	362.7
72.5°	403.9	392.0	342.1	323.1	308.5
75°	329.6	325.3	292.8	269.5	265.1
77.5°	262.4	268.9	240.7	223.9	220.1
80°	202.2	208.7	190.8	176.7	171.9
82.5°	147.5	156.1	138.3	135.0	130.1
85°	97.6	100.3	91.6	92.7	86.2
87.5°	47.7	53.1	48.3	49.9	46.6
90°	0.0	0.0	0.0	0.0	0.0

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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	22.7	23.0	19.3	20.6	19.8	21.0	21.4
	12H	21.1	22.3	21.5	22.7	23.2	19.5	20.7	19.9	21.1	21.6
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	21.6	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	23.7	20.4	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	21.6	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)