

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: P1526985

Luminaire Tested: 14CGTX-42HE-F125-L840

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1526985
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-L840
Description: CGTX with F125 Lens Option

Light Source:
Ballast/Driver: -

Summary

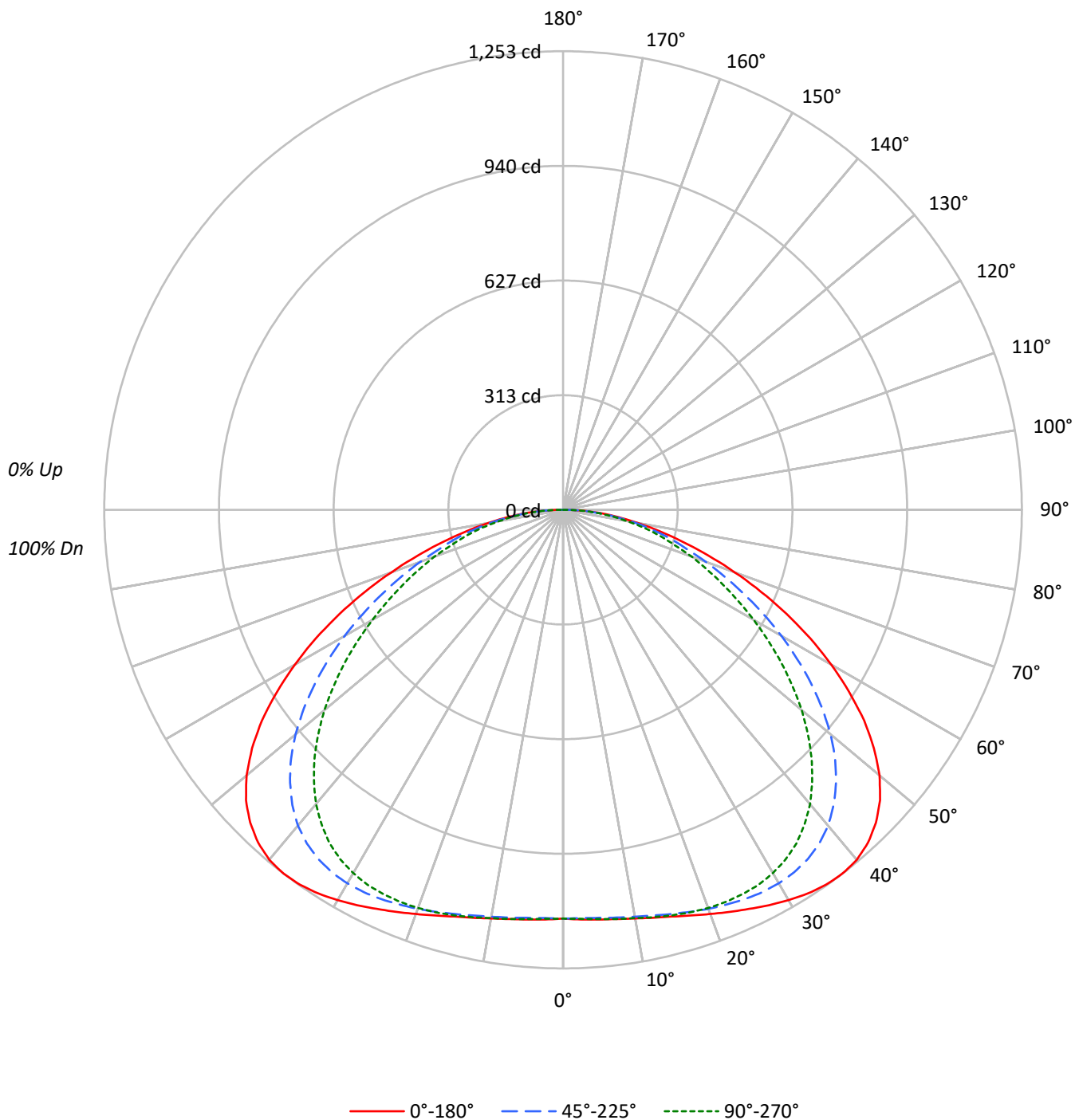
Lumens per Lamp: N/A
Luminaire Lumens: 4280.0 lumens
Efficiency: N/A
Efficacy: 134.2 lumens/watt
Spacing Criteria (0/90/45): 1.68 / 1.5 / 1.61
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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				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°	3006	3006	3006
5°	3035	3023	3032
10°	3098	3084	3095
15°	3205	3185	3195
20°	3365	3323	3315
25°	3572	3485	3440
30°	3826	3661	3561
35°	4109	3827	3652
40°	4384	3957	3686
45°	4599	4012	3653
50°	4722	3990	3561
55°	4711	3880	3411
60°	4553	3703	3234
65°	4288	3477	3058
70°	3924	3256	2939
75°	3530	3136	2839
80°	3228	3047	2743
85°	3103	2915	2742

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 4732 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.3	2.5
10°-20°	325.4	7.6
20°-30°	544.6	12.7
30°-40°	733.8	17.1
40°-50°	823.1	19.2
50°-60°	755.3	17.6
60°-70°	558.6	13.1
70°-80°	325.0	7.6
80°-90°	106.8	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°	977.4	22.8
0°-40°	1711.2	40.0
0°-60°	3289.6	76.9
0°-90°	4280.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4280.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1117	1117	1117	1117	1117	
5°	1124	1123	1119	1120	1122	108
15°	1150	1148	1143	1144	1147	327
25°	1203	1194	1174	1161	1159	558
35°	1251	1225	1165	1124	1112	783
45°	1208	1163	1054	983	960	929
55°	1004	946	827	750	727	892
65°	674	633	546	496	480	666
75°	340	335	302	278	273	364
85°	100	103	94	96	89	110
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1116.9	1116.9	1116.9	1116.9	1116.9
2.5°	1120.2	1120.2	1116.3	1117.4	1118.5
5°	1123.6	1123.0	1119.1	1119.7	1122.4
7.5°	1127.5	1127.5	1123.6	1123.6	1127.5
10°	1133.6	1132.5	1128.6	1129.7	1132.5
12.5°	1141.4	1139.2	1135.3	1136.4	1139.8
15°	1150.4	1148.1	1143.1	1144.2	1147.0
17.5°	1162.1	1158.7	1151.5	1151.5	1153.2
20°	1174.9	1169.4	1160.4	1156.0	1157.6
22.5°	1188.9	1181.6	1167.1	1159.3	1159.9
25°	1202.9	1193.9	1173.8	1161.0	1158.7
27.5°	1217.9	1205.1	1177.7	1159.9	1155.4
30°	1231.3	1215.1	1178.3	1153.7	1145.9
32.5°	1243.1	1221.8	1174.4	1142.0	1131.9
35°	1250.9	1224.6	1164.9	1124.1	1111.8
37.5°	1253.1	1221.3	1149.3	1099.6	1083.4
40°	1248.1	1210.7	1126.4	1067.2	1049.3
42.5°	1233.0	1191.7	1094.0	1028.1	1006.9
45°	1208.4	1162.7	1054.3	982.8	959.9
47.5°	1174.4	1122.4	1008.0	930.9	906.9
50°	1128.0	1073.3	953.2	874.5	850.5
52.5°	1070.5	1013.6	892.4	814.8	789.1
55°	1004.1	946.5	827.0	750.0	727.1
57.5°	926.4	873.4	758.3	685.2	663.4
60°	846.0	795.8	688.0	620.4	600.9
62.5°	761.1	715.4	617.1	556.2	539.4
65°	673.5	632.7	546.1	496.4	480.3
67.5°	585.8	554.5	478.6	434.5	425.5
70°	498.7	475.2	413.8	384.8	373.6
72.5°	416.0	403.7	352.4	332.8	317.7
75°	339.5	335.1	301.6	277.5	273.1
77.5°	270.3	277.0	247.9	230.6	226.7
80°	208.3	215.0	196.6	182.0	177.0
82.5°	151.9	160.8	142.4	139.0	134.0
85°	100.5	103.3	94.4	95.5	88.8
87.5°	49.1	54.7	49.7	51.4	48.0
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	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	20.1	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	22.0	22.4	18.9	20.1	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	22.5
	12H	22.3	23.1	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	22.3	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)