

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: P1526983

Luminaire Tested: 14CGTX-42HE-F125-L830

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1526983
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-L830
Description: CGTX with F125 Lens Option

Light Source:
Ballast/Driver: -

Summary

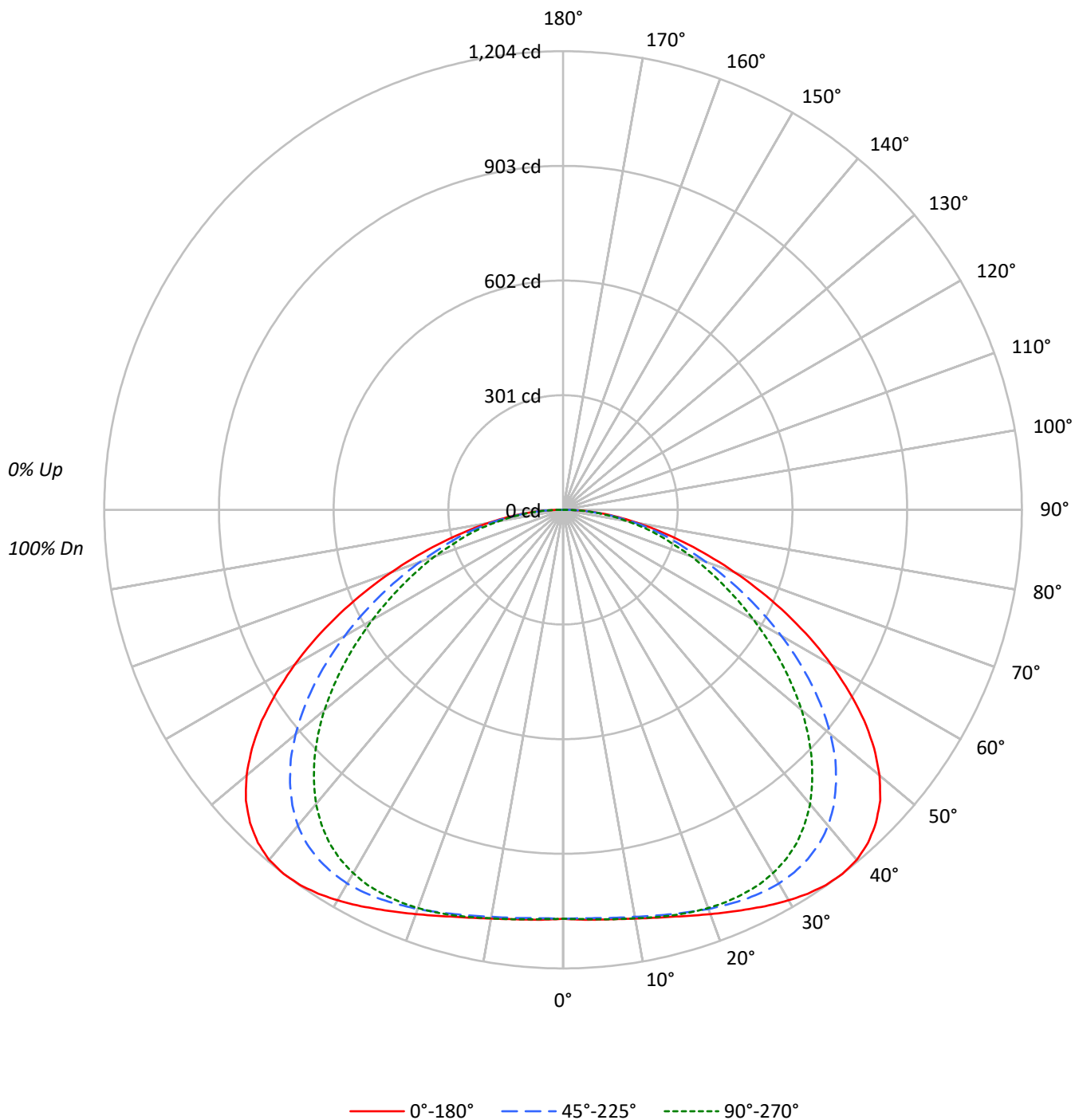
Lumens per Lamp: N/A
Luminaire Lumens: 4114.0 lumens
Efficiency: N/A
Efficacy: 129.0 lumens/watt
Spacing Criteria (0/90/45): 1.68 / 1.5 / 1.61
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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°	2889	2889	2889
5°	2917	2906	2914
10°	2977	2964	2975
15°	3081	3061	3071
20°	3234	3194	3186
25°	3433	3350	3307
30°	3678	3519	3423
35°	3950	3678	3511
40°	4214	3803	3543
45°	4421	3857	3511
50°	4539	3836	3422
55°	4528	3730	3279
60°	4377	3559	3109
65°	4122	3343	2939
70°	3771	3129	2825
75°	3394	3014	2729
80°	3102	2927	2638
85°	2983	2800	2634

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 4549 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.2	2.5
10°-20°	312.8	7.6
20°-30°	523.5	12.7
30°-40°	705.3	17.1
40°-50°	791.2	19.2
50°-60°	726.0	17.6
60°-70°	537.0	13.1
70°-80°	312.4	7.6
80°-90°	102.7	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°	939.5	22.8
0°-40°	1644.8	40.0
0°-60°	3162.0	76.9
0°-90°	4114.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4114.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1074	1074	1074	1074	1074	
5°	1080	1079	1076	1076	1079	103
15°	1106	1104	1099	1100	1102	314
25°	1156	1148	1128	1116	1114	536
35°	1202	1177	1120	1080	1069	753
45°	1162	1118	1013	945	923	893
55°	965	910	795	721	699	857
65°	647	608	525	477	462	640
75°	326	322	290	267	262	350
85°	97	99	91	92	85	106
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1073.5	1073.5	1073.5	1073.5	1073.5
2.5°	1076.8	1076.8	1073.0	1074.1	1075.2
5°	1080.0	1079.4	1075.7	1076.2	1078.9
7.5°	1083.7	1083.7	1080.0	1080.0	1083.7
10°	1089.6	1088.6	1084.8	1085.9	1088.6
12.5°	1097.2	1095.0	1091.3	1092.3	1095.6
15°	1105.8	1103.6	1098.8	1099.8	1102.5
17.5°	1117.0	1113.8	1106.8	1106.8	1108.4
20°	1129.4	1124.0	1115.4	1111.1	1112.7
22.5°	1142.8	1135.8	1121.9	1114.3	1114.9
25°	1156.2	1147.6	1128.3	1115.9	1113.8
27.5°	1170.7	1158.4	1132.1	1114.9	1110.6
30°	1183.6	1168.0	1132.6	1109.0	1101.5
32.5°	1194.9	1174.5	1128.8	1097.7	1088.0
35°	1202.4	1177.1	1119.7	1080.5	1068.7
37.5°	1204.5	1173.9	1104.7	1056.9	1041.3
40°	1199.7	1163.7	1082.7	1025.8	1008.6
42.5°	1185.2	1145.5	1051.5	988.2	967.8
45°	1161.6	1117.6	1013.4	944.7	922.7
47.5°	1128.8	1078.9	968.9	894.8	871.7
50°	1084.3	1031.7	916.3	840.6	817.5
52.5°	1029.0	974.2	857.8	783.2	758.5
55°	965.1	909.8	795.0	720.9	698.9
57.5°	890.5	839.5	728.9	658.6	637.7
60°	813.2	764.9	661.3	596.4	577.6
62.5°	731.6	687.6	593.1	534.6	518.5
65°	647.3	608.2	525.0	477.2	461.6
67.5°	563.1	533.0	460.0	417.6	409.0
70°	479.3	456.8	397.7	369.8	359.1
72.5°	399.9	388.1	338.7	319.9	305.4
75°	326.4	322.1	289.9	266.8	262.5
77.5°	259.8	266.2	238.3	221.7	217.9
80°	200.2	206.7	188.9	175.0	170.2
82.5°	146.0	154.6	136.9	133.7	128.8
85°	96.6	99.3	90.7	91.8	85.3
87.5°	47.2	52.6	47.8	49.4	46.2
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	16.4	18.1	18.4
	3H	19.6	21.2	20.0	21.5	21.9	17.8	19.3	18.2	19.7	20.0
	4H	20.3	21.7	20.7	22.1	22.4	18.5	20.0	18.9	20.3	20.7
	6H	20.8	22.1	21.2	22.5	22.9	19.1	20.4	19.5	20.8	21.2
	8H	20.9	22.2	21.4	22.6	23.0	19.3	20.6	19.7	21.0	21.4
	12H	21.1	22.3	21.5	22.7	23.1	19.5	20.7	19.9	21.1	21.5
4H	2H	18.3	19.8	18.7	20.1	20.5	16.9	18.3	17.2	18.7	19.0
	3H	20.3	21.5	20.7	21.9	22.3	18.8	20.0	19.2	20.4	20.8
	4H	21.1	22.2	21.5	22.6	23.0	19.6	20.7	20.0	21.1	21.6
	6H	21.8	22.7	22.2	23.2	23.6	20.3	21.3	20.8	21.7	22.2
	8H	22.0	22.9	22.5	23.3	23.8	20.6	21.5	21.1	21.9	22.4
	12H	22.2	23.0	22.7	23.5	24.0	20.8	21.7	21.3	22.1	22.6
8H	4H	21.3	22.3	21.8	22.7	23.2	20.0	20.9	20.5	21.4	21.8
	6H	22.1	22.9	22.6	23.4	23.9	20.9	21.6	21.4	22.1	22.6
	8H	22.5	23.2	23.0	23.7	24.2	21.3	21.9	21.8	22.4	22.9
	12H	22.8	23.4	23.3	23.9	24.4	21.6	22.2	22.1	22.7	23.2
12H	4H	21.4	22.2	21.9	22.7	23.1	20.1	20.9	20.6	21.4	21.9
	6H	22.2	22.9	22.7	23.4	23.9	21.0	21.7	21.5	22.2	22.7
	8H	22.6	23.2	23.1	23.7	24.3	21.4	22.0	21.9	22.5	23.1













(END OF REPORT)