

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: P1526766

Luminaire Tested: 14CGTX-42HE-A125-L830

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1526766
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2507-496-6)
Test Lab: INNOVATION CENTER
Issue Date: 8/24/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CGTX-42HE-A125-L830
Description: CGTX with A125 Lens Option

Light Source:
Ballast/Driver: -

Summary

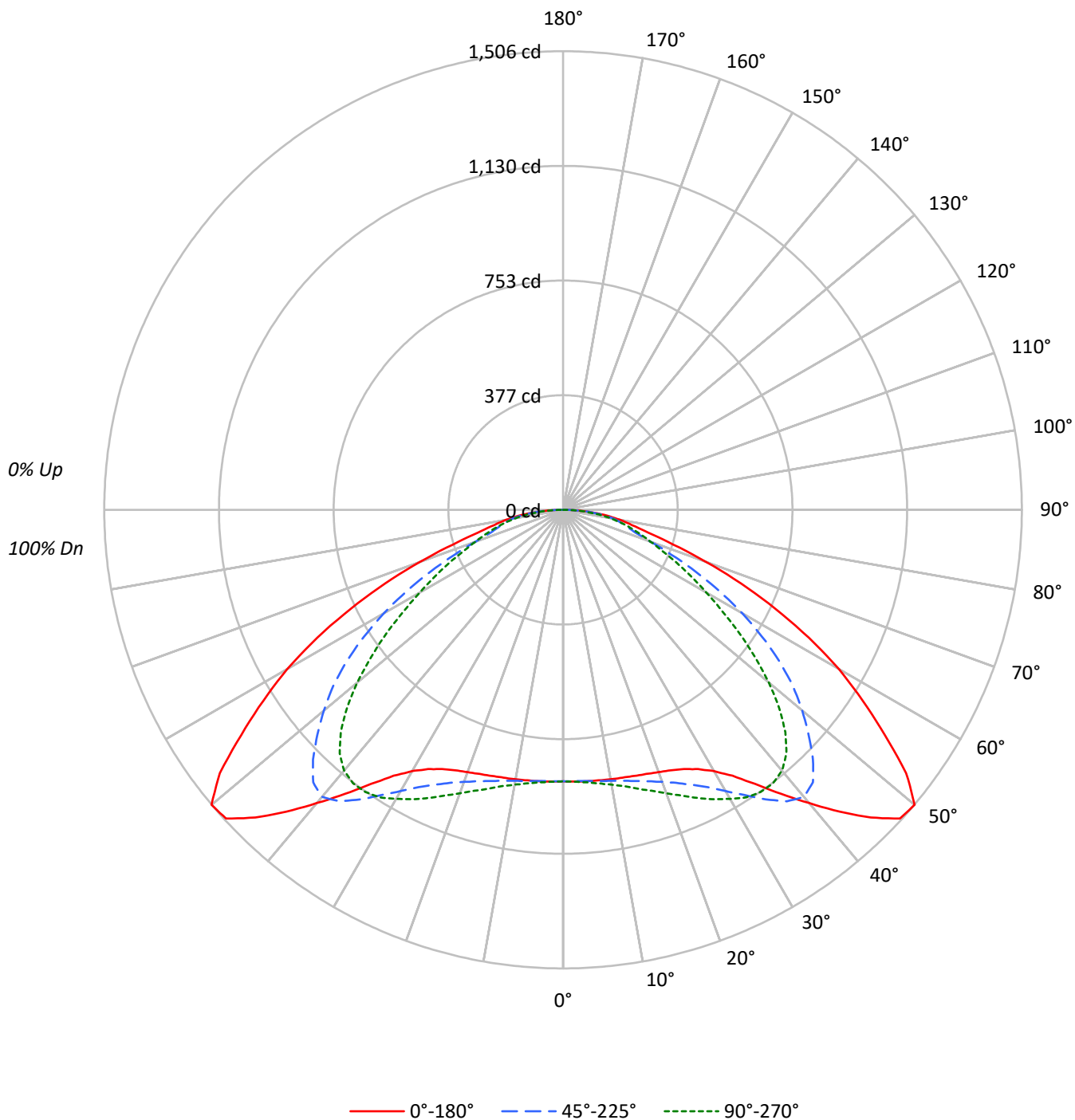
Lumens per Lamp: N/A
Luminaire Lumens: 4175.2 lumens
Efficiency: N/A
Efficacy: 130.9 lumens/watt
Spacing Criteria (0/90/45): 2.23 / 1.81 / 1.81
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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: P1526766

CATALOG NUMBER: 14CGTX-42HE-A125-L830

Luminous Intensity Polar Plot



TEST NUMBER: P1526766

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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	95	105	101	97	93	97	93	90		93	90	87		89	87	85		83
2	98	89	82	76	95	87	81	75	84	78	73		80	76	72		77	73	70		68
3	89	77	69	62	86	76	68	61	73	66	60		70	64	59		67	62	58		56
4	80	68	58	51	78	66	58	51	64	56	50		61	55	50		59	54	49		47
5	73	60	50	43	71	59	50	43	56	49	43		54	48	42		53	46	42		39
6	67	53	44	37	65	52	43	37	50	42	36		49	42	36		47	41	36		34
7	62	48	38	32	60	47	38	32	45	37	32		44	37	31		42	36	31		29
8	57	43	34	28	56	42	34	28	41	33	28		40	33	28		39	32	27		25
9	53	39	31	25	52	39	30	25	37	30	24		36	29	24		35	29	24		22
10	50	36	28	22	48	35	27	22	34	27	22		33	27	22		32	26	22		20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2399	2399	2399
5°	2417	2414	2427
10°	2455	2469	2504
15°	2520	2568	2641
20°	2624	2722	2836
25°	2789	2956	3099
30°	3077	3313	3405
35°	3607	3812	3716
40°	4415	4322	3928
45°	5437	4416	3927
50°	6306	4288	3689
55°	6050	4065	3317
60°	5621	3648	2921
65°	4896	3056	2617
70°	3917	2402	2402
75°	3005	2278	2385
80°	2949	2630	2428
85°	2964	2915	2377

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 50°
Luminance: 6306 cd/sqm

TEST NUMBER: P1526766

CATALOG NUMBER: 14CGTX-42HE-A125-L830

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.8	2.1
10°-20°	263.2	6.3
20°-30°	463.2	11.1
30°-40°	717.5	17.2
40°-50°	914.1	21.9
50°-60°	831.6	19.9
60°-70°	539.3	12.9
70°-80°	262.3	6.3
80°-90°	98.3	2.4
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°	812.1	19.5
0°-40°	1529.6	36.6
0°-60°	3275.3	78.4
0°-90°	4175.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4175.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	892	892	892	892	892	
5°	895	896	894	895	898	85
15°	904	910	922	939	948	257
25°	939	959	996	1031	1044	438
35°	1098	1146	1160	1141	1131	699
45°	1429	1341	1160	1059	1032	1098
55°	1290	1131	866	747	707	1151
65°	769	681	480	416	411	761
75°	289	265	219	209	229	328
85°	96	105	94	86	77	104
90°	0	0	0	0	0	

TEST NUMBER: P1526766

CATALOG NUMBER: 14CGTX-42HE-A125-L830

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	891.5	891.5	891.5	891.5	891.5
2.5°	893.1	894.2	891.5	892.0	893.6
5°	894.7	895.8	893.6	895.3	898.5
7.5°	895.8	898.0	898.0	901.8	906.1
10°	898.5	900.7	903.4	911.0	916.4
12.5°	900.7	904.5	911.0	923.5	929.4
15°	904.5	910.4	921.8	939.2	947.9
17.5°	909.4	918.0	934.3	957.1	967.4
20°	916.4	927.8	950.6	977.7	990.2
22.5°	925.6	940.8	970.1	1002.1	1015.6
25°	939.2	958.7	995.6	1030.8	1043.8
27.5°	959.8	984.2	1026.5	1061.7	1071.5
30°	990.2	1020.5	1066.1	1090.5	1095.9
32.5°	1035.2	1074.2	1110.5	1118.7	1119.8
35°	1098.1	1145.8	1160.4	1141.4	1131.1
37.5°	1175.1	1228.2	1206.5	1150.1	1131.7
40°	1256.9	1300.3	1230.4	1143.1	1118.1
42.5°	1343.7	1341.5	1214.1	1112.2	1085.1
45°	1428.8	1341.0	1160.4	1059.0	1031.9
47.5°	1500.4	1300.3	1093.7	993.4	961.4
50°	1506.4	1247.2	1024.3	913.7	881.2
52.5°	1419.6	1194.6	951.1	831.3	793.9
55°	1289.5	1131.1	866.5	746.7	707.1
57.5°	1166.4	1048.2	774.3	659.4	620.3
60°	1044.4	941.4	677.8	574.8	542.8
62.5°	909.4	817.2	579.1	490.7	473.9
65°	768.9	681.1	479.9	415.9	411.0
67.5°	632.8	552.0	385.0	345.4	351.4
70°	497.8	436.0	305.3	296.1	305.3
72.5°	378.5	343.8	248.4	250.5	265.7
75°	289.0	264.6	219.1	208.8	229.4
77.5°	231.5	215.8	194.1	178.9	194.1
80°	190.3	186.5	169.7	151.8	156.7
82.5°	143.7	146.4	133.4	124.2	118.2
85°	96.0	104.7	94.4	86.2	77.0
87.5°	48.3	58.6	49.9	44.5	39.6
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1526766

CATALOG NUMBER: 14CGTX-42HE-A125-L830

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	19.4	21.1	19.8	21.4	21.8	15.9	17.7	16.3	18.0	18.3
	3H	20.7	22.2	21.1	22.6	22.9	17.2	18.8	17.6	19.1	19.5
	4H	21.0	22.5	21.4	22.9	23.2	17.8	19.3	18.2	19.6	20.0
	6H	21.3	22.7	21.7	23.1	23.5	18.3	19.7	18.8	20.1	20.5
	8H	21.5	22.8	21.9	23.2	23.6	18.6	19.9	19.0	20.3	20.7
	12H	21.6	22.8	22.0	23.2	23.6	18.7	20.0	19.2	20.4	20.8
4H	2H	19.6	21.0	20.0	21.4	21.8	16.6	18.1	17.0	18.4	18.8
	3H	21.0	22.3	21.4	22.7	23.1	18.1	19.3	18.5	19.7	20.1
	4H	21.5	22.6	21.9	23.0	23.5	18.7	19.8	19.2	20.3	20.7
	6H	22.0	22.9	22.4	23.4	23.8	19.4	20.4	19.9	20.8	21.3
	8H	22.2	23.1	22.6	23.5	24.0	19.7	20.6	20.2	21.1	21.5
	12H	22.3	23.2	22.8	23.6	24.1	20.0	20.8	20.4	21.3	21.7
8H	4H	21.6	22.5	22.1	23.0	23.4	19.1	20.0	19.5	20.4	20.9
	6H	22.2	22.9	22.7	23.4	23.9	19.9	20.7	20.4	21.2	21.6
	8H	22.5	23.2	23.0	23.7	24.2	20.3	21.0	20.8	21.5	22.0
	12H	22.8	23.4	23.3	23.9	24.4	20.7	21.3	21.2	21.8	22.3
12H	4H	21.6	22.4	22.1	22.9	23.4	19.1	20.0	19.6	20.4	20.9
	6H	22.2	22.9	22.7	23.4	23.9	20.1	20.7	20.6	21.2	21.7
	8H	22.6	23.2	23.1	23.7	24.2	20.5	21.1	21.0	21.6	22.2













(END OF REPORT)