

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: P1526769

Luminaire Tested: 14CGTX-42HE-A125-L850

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1526769
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-L850
Description: CGTX with A125 Lens Option

Light Source:
Ballast/Driver: -

Summary

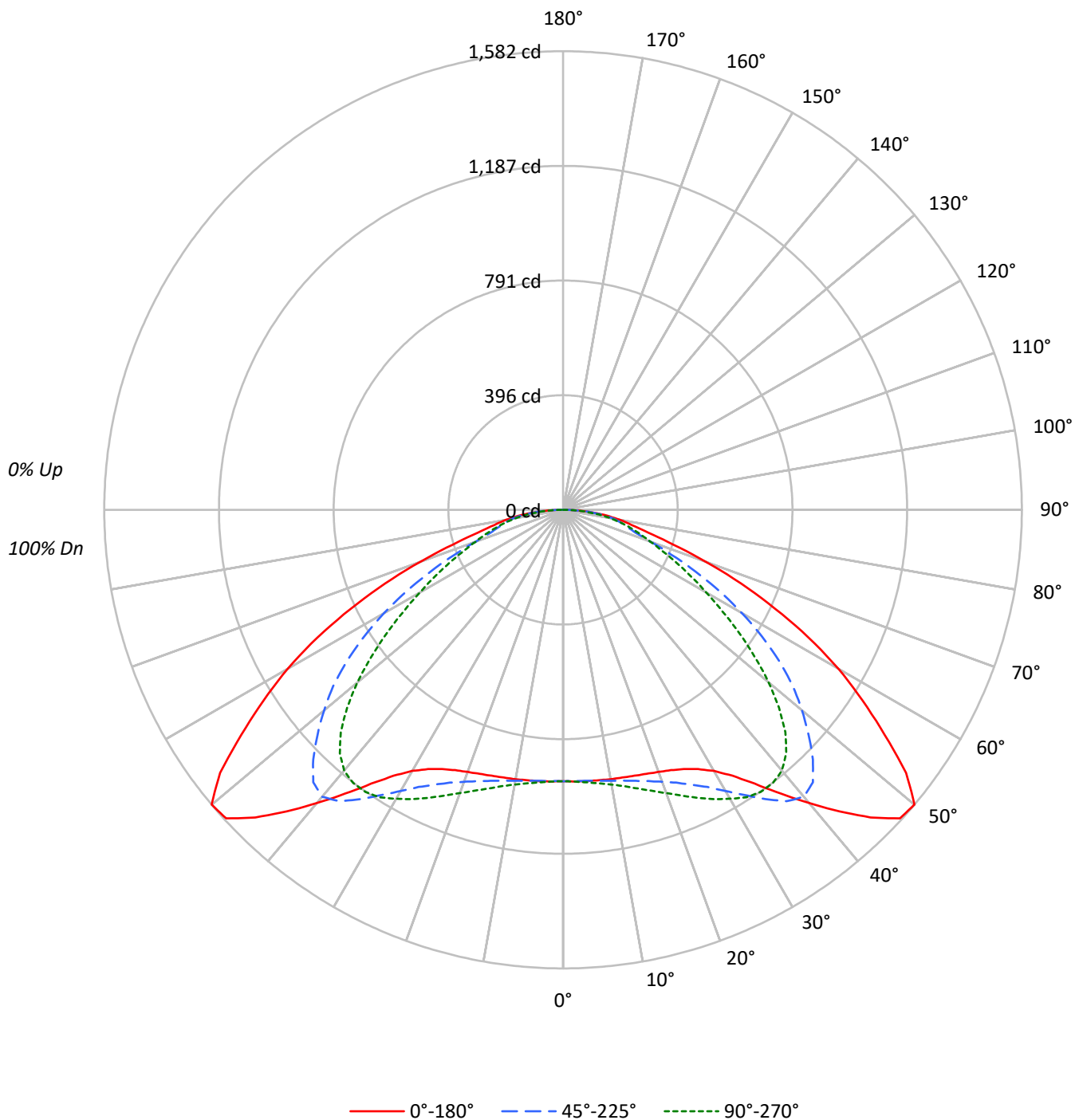
Lumens per Lamp: N/A
Luminaire Lumens: 4384.0 lumens
Efficiency: N/A
Efficacy: 137.4 lumens/watt
Spacing Criteria (0/90/45): 2.23 / 1.81 / 1.81
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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: P1526769

CATALOG NUMBER: 14CGTX-42HE-A125-L850

Luminous Intensity Polar Plot



TEST NUMBER: P1526769

CATALOG NUMBER: 14CGTX-42HE-A125-L850

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°	2519	2519	2519
5°	2538	2535	2548
10°	2578	2592	2629
15°	2646	2696	2773
20°	2755	2858	2977
25°	2928	3104	3254
30°	3231	3478	3576
35°	3788	4003	3902
40°	4636	4538	4124
45°	5710	4637	4123
50°	6622	4502	3873
55°	6352	4269	3483
60°	5902	3830	3067
65°	5141	3209	2748
70°	4113	2522	2522
75°	3156	2391	2504
80°	3096	2762	2549
85°	3112	3060	2498

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 50°

Luminance: 6622 cd/sqm

TEST NUMBER: P1526769

CATALOG NUMBER: 14CGTX-42HE-A125-L850

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.1	2.1
10°-20°	276.3	6.3
20°-30°	486.3	11.1
30°-40°	753.4	17.2
40°-50°	959.8	21.9
50°-60°	873.2	19.9
60°-70°	566.3	12.9
70°-80°	275.4	6.3
80°-90°	103.2	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°	852.7	19.5
0°-40°	1606.1	36.6
0°-60°	3439.1	78.4
0°-90°	4384.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4384.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	936	936	936	936	936	
5°	940	941	938	940	943	90
15°	950	956	968	986	995	270
25°	986	1007	1045	1082	1096	460
35°	1153	1203	1218	1198	1188	734
45°	1500	1408	1218	1112	1084	1153
55°	1354	1188	910	784	742	1209
65°	807	715	504	437	432	799
75°	304	278	230	219	241	344
85°	101	110	99	90	81	109
90°	0	0	0	0	0	

TEST NUMBER: P1526769

CATALOG NUMBER: 14CGTX-42HE-A125-L850

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	936.0	936.0	936.0	936.0	936.0
2.5°	937.8	938.9	936.0	936.6	938.3
5°	939.5	940.6	938.3	940.0	943.4
7.5°	940.6	942.9	942.9	946.9	951.4
10°	943.4	945.7	948.6	956.5	962.2
12.5°	945.7	949.7	956.5	969.6	975.9
15°	949.7	956.0	967.9	986.1	995.3
17.5°	954.8	963.9	981.0	1004.9	1015.8
20°	962.2	974.2	998.1	1026.6	1039.7
22.5°	971.9	987.9	1018.6	1052.2	1066.4
25°	986.1	1006.6	1045.4	1082.4	1096.0
27.5°	1007.8	1033.4	1077.8	1114.8	1125.1
30°	1039.7	1071.6	1119.4	1145.0	1150.7
32.5°	1086.9	1127.9	1166.1	1174.6	1175.7
35°	1153.0	1203.1	1218.4	1198.5	1187.7
37.5°	1233.8	1289.6	1266.8	1207.6	1188.3
40°	1319.8	1365.3	1291.9	1200.2	1174.0
42.5°	1410.9	1408.6	1274.8	1167.8	1139.3
45°	1500.3	1408.0	1218.4	1112.0	1083.5
47.5°	1575.4	1365.3	1148.4	1043.1	1009.5
50°	1581.7	1309.5	1075.5	959.4	925.2
52.5°	1490.6	1254.3	998.7	872.8	833.6
55°	1354.0	1187.7	909.9	784.0	742.5
57.5°	1224.7	1100.6	813.1	692.4	651.4
60°	1096.6	988.4	711.7	603.5	569.9
62.5°	954.8	858.0	608.1	515.3	497.6
65°	807.4	715.1	503.9	436.7	431.6
67.5°	664.5	579.6	404.3	362.7	369.0
70°	522.7	457.8	320.6	310.9	320.6
72.5°	397.4	361.0	260.8	263.0	279.0
75°	303.5	277.9	230.0	219.2	240.8
77.5°	243.1	226.6	203.8	187.9	203.8
80°	199.8	195.9	178.2	159.4	164.5
82.5°	150.9	153.7	140.1	130.4	124.1
85°	100.8	109.9	99.1	90.5	80.9
87.5°	50.7	61.5	52.4	46.7	41.6
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1526769

CATALOG NUMBER: 14CGTX-42HE-A125-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	19.6	21.3	19.9	21.6	21.9	16.1	17.8	16.5	18.2	18.5
	3H	20.9	22.4	21.2	22.7	23.1	17.4	19.0	17.8	19.3	19.7
	4H	21.2	22.7	21.6	23.0	23.4	18.0	19.4	18.4	19.8	20.2
	6H	21.5	22.9	21.9	23.2	23.6	18.5	19.9	18.9	20.2	20.6
	8H	21.6	22.9	22.1	23.3	23.7	18.7	20.0	19.2	20.4	20.8
	12H	21.7	23.0	22.2	23.4	23.8	18.9	20.2	19.3	20.5	21.0
4H	2H	19.7	21.2	20.1	21.5	21.9	16.8	18.3	17.2	18.6	19.0
	3H	21.2	22.4	21.6	22.8	23.2	18.2	19.5	18.6	19.9	20.3
	4H	21.7	22.8	22.1	23.2	23.6	18.9	20.0	19.3	20.4	20.9
	6H	22.1	23.1	22.6	23.5	24.0	19.6	20.6	20.0	21.0	21.5
	8H	22.3	23.2	22.8	23.7	24.1	19.9	20.8	20.3	21.2	21.7
	12H	22.5	23.3	23.0	23.8	24.3	20.1	21.0	20.6	21.4	21.9
8H	4H	21.8	22.7	22.2	23.1	23.6	19.2	20.2	19.7	20.6	21.1
	6H	22.4	23.1	22.8	23.6	24.1	20.1	20.9	20.6	21.3	21.8
	8H	22.6	23.3	23.2	23.8	24.3	20.5	21.2	21.0	21.7	22.2
	12H	22.9	23.6	23.4	24.0	24.6	20.9	21.5	21.4	22.0	22.5
12H	4H	21.8	22.6	22.3	23.1	23.6	19.3	20.1	19.8	20.6	21.1
	6H	22.4	23.1	22.9	23.6	24.1	20.2	20.9	20.7	21.4	21.9
	8H	22.7	23.4	23.3	23.9	24.4	20.7	21.3	21.2	21.8	22.4















(END OF REPORT)