

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: P1526767

Luminaire Tested: 14CGTX-42HE-A125-L835

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1526767
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-L835
Description: CGTX with A125 Lens Option

Light Source:
Ballast/Driver: -

Summary

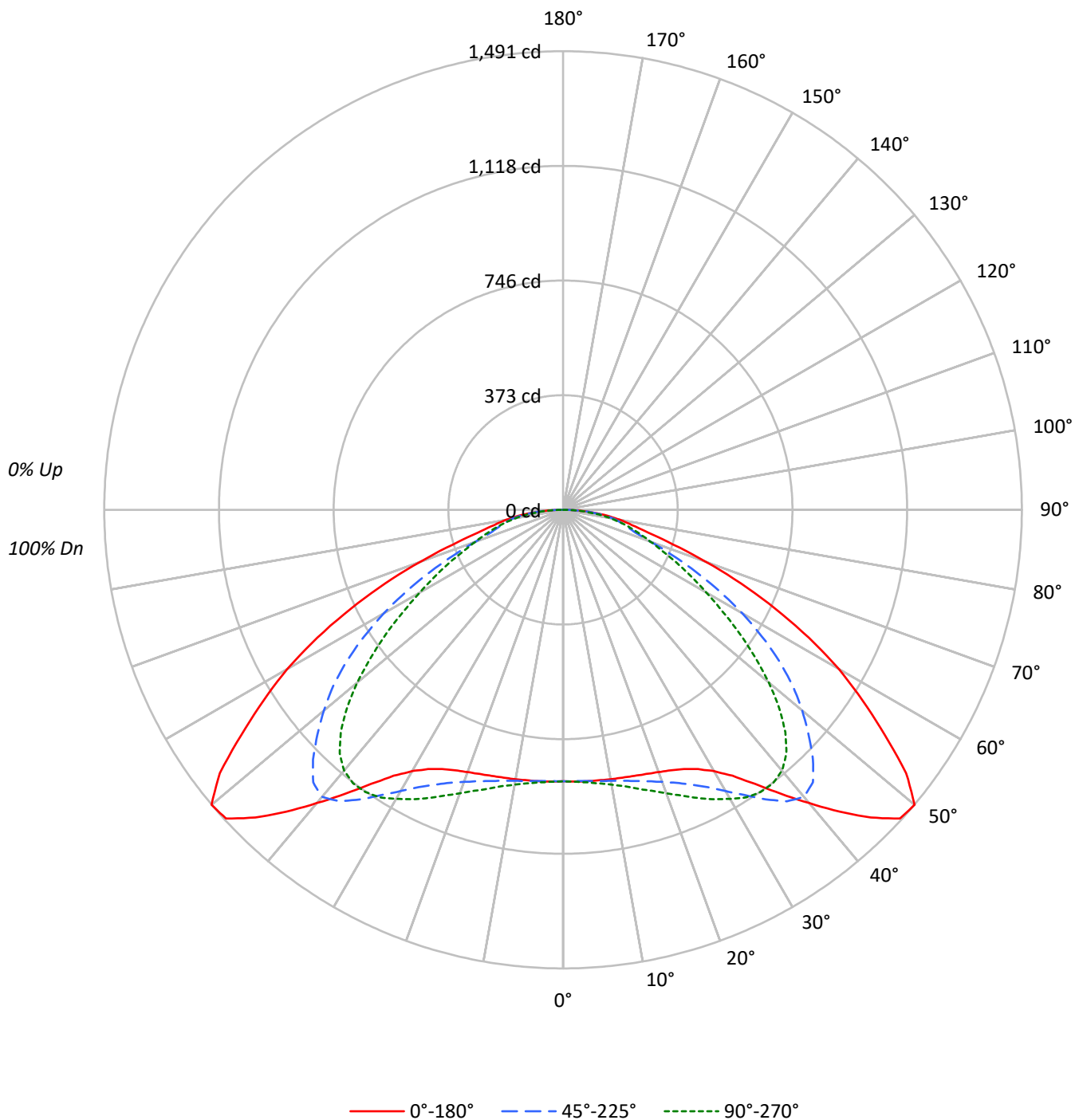
Lumens per Lamp: N/A
Luminaire Lumens: 4133.5 lumens
Efficiency: N/A
Efficacy: 129.6 lumens/watt
Spacing Criteria (0/90/45): 2.23 / 1.81 / 1.81
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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

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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	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°	2375	2375	2375
5°	2393	2390	2403
10°	2431	2444	2479
15°	2495	2542	2614
20°	2598	2695	2807
25°	2761	2926	3068
30°	3046	3279	3371
35°	3571	3774	3679
40°	4371	4279	3889
45°	5383	4372	3888
50°	6243	4245	3652
55°	5989	4025	3284
60°	5564	3611	2892
65°	4847	3025	2591
70°	3877	2378	2378
75°	2975	2255	2361
80°	2920	2603	2404
85°	2933	2884	2353

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 50°

Luminance: 6243 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.9	2.1
10°-20°	260.5	6.3
20°-30°	458.6	11.1
30°-40°	710.3	17.2
40°-50°	904.9	21.9
50°-60°	823.3	19.9
60°-70°	533.9	12.9
70°-80°	259.7	6.3
80°-90°	97.3	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°	804.0	19.5
0°-40°	1514.3	36.6
0°-60°	3242.6	78.4
0°-90°	4133.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4133.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	883	883	883	883	883	
5°	886	887	885	886	890	85
15°	895	901	913	930	938	254
25°	930	949	986	1020	1033	434
35°	1087	1134	1149	1130	1120	692
45°	1415	1328	1149	1048	1022	1087
55°	1277	1120	858	739	700	1140
65°	761	674	475	412	407	754
75°	286	262	217	207	227	324
85°	95	104	93	85	76	103
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	882.6	882.6	882.6	882.6	882.6
2.5°	884.2	885.2	882.6	883.1	884.7
5°	885.8	886.8	884.7	886.3	889.5
7.5°	886.8	889.0	889.0	892.8	897.0
10°	889.5	891.7	894.4	901.9	907.2
12.5°	891.7	895.4	901.9	914.2	920.1
15°	895.4	901.3	912.6	929.8	938.4
17.5°	900.3	908.9	925.0	947.5	957.7
20°	907.2	918.5	941.1	967.9	980.3
22.5°	916.4	931.4	960.4	992.1	1005.5
25°	929.8	949.1	985.6	1020.5	1033.4
27.5°	950.2	974.4	1016.2	1051.1	1060.8
30°	980.3	1010.3	1055.4	1079.6	1084.9
32.5°	1024.8	1063.5	1099.4	1107.5	1108.6
35°	1087.1	1134.3	1148.8	1130.0	1119.8
37.5°	1163.3	1215.9	1194.5	1138.6	1120.4
40°	1244.4	1287.3	1218.1	1131.6	1107.0
42.5°	1330.3	1328.1	1202.0	1101.0	1074.2
45°	1414.6	1327.6	1148.8	1048.4	1021.6
47.5°	1485.4	1287.3	1082.8	983.5	951.8
50°	1491.3	1234.7	1014.1	904.6	872.4
52.5°	1405.4	1182.6	941.6	823.0	785.9
55°	1276.6	1119.8	857.9	739.2	700.0
57.5°	1154.7	1037.7	766.6	652.8	614.1
60°	1033.9	931.9	671.0	569.0	537.4
62.5°	900.3	809.0	573.3	485.8	469.2
65°	761.2	674.3	475.1	411.8	406.9
67.5°	626.5	546.5	381.2	342.0	347.9
70°	492.8	431.6	302.2	293.1	302.2
72.5°	374.7	340.4	245.9	248.0	263.0
75°	286.1	262.0	216.9	206.7	227.1
77.5°	229.2	213.7	192.2	177.2	192.2
80°	188.4	184.7	168.0	150.3	155.1
82.5°	142.3	144.9	132.1	122.9	117.0
85°	95.0	103.6	93.4	85.4	76.2
87.5°	47.8	58.0	49.4	44.0	39.2
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	19.4	21.1	19.7	21.4	21.7	15.9	17.6	16.3	18.0	18.3
	3H	20.6	22.2	21.0	22.5	22.9	17.2	18.8	17.6	19.1	19.4
	4H	21.0	22.5	21.4	22.8	23.2	17.8	19.2	18.2	19.6	20.0
	6H	21.3	22.7	21.7	23.0	23.4	18.3	19.7	18.7	20.0	20.4
	8H	21.4	22.7	21.9	23.1	23.5	18.5	19.8	19.0	20.2	20.6
	12H	21.5	22.8	22.0	23.2	23.6	18.7	20.0	19.1	20.3	20.8
4H	2H	19.5	21.0	19.9	21.3	21.7	16.6	18.0	17.0	18.4	18.8
	3H	21.0	22.2	21.4	22.6	23.0	18.0	19.3	18.4	19.7	20.1
	4H	21.5	22.6	21.9	23.0	23.4	18.7	19.8	19.1	20.2	20.7
	6H	21.9	22.9	22.4	23.3	23.8	19.4	20.4	19.8	20.8	21.3
	8H	22.1	23.0	22.6	23.5	23.9	19.7	20.6	20.1	21.0	21.5
	12H	22.3	23.1	22.8	23.6	24.1	19.9	20.8	20.4	21.2	21.7
8H	4H	21.6	22.5	22.0	22.9	23.4	19.0	20.0	19.5	20.4	20.9
	6H	22.1	22.9	22.6	23.4	23.9	19.9	20.7	20.4	21.1	21.6
	8H	22.4	23.1	23.0	23.6	24.1	20.3	21.0	20.8	21.5	22.0
	12H	22.7	23.3	23.2	23.8	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	19.9	19.6	20.4	20.9
	6H	22.2	22.9	22.7	23.3	23.9	20.0	20.7	20.5	21.2	21.7
	8H	22.5	23.2	23.0	23.6	24.2	20.5	21.1	21.0	21.6	22.1













(END OF REPORT)