

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: P1526827

Luminaire Tested: 22CGTX-45HE-A125-L840

Issue Date: 8/21/2026

Test Information

Test Method: LM-79-2019
Report Number: P1526827
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2507-496-5)
Test Lab: INNOVATION CENTER
Issue Date: 8/21/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 22CGTX-45HE-A125-L840
Description: CGTX with A125 Lens Option

Light Source:
Ballast/Driver: -

Summary

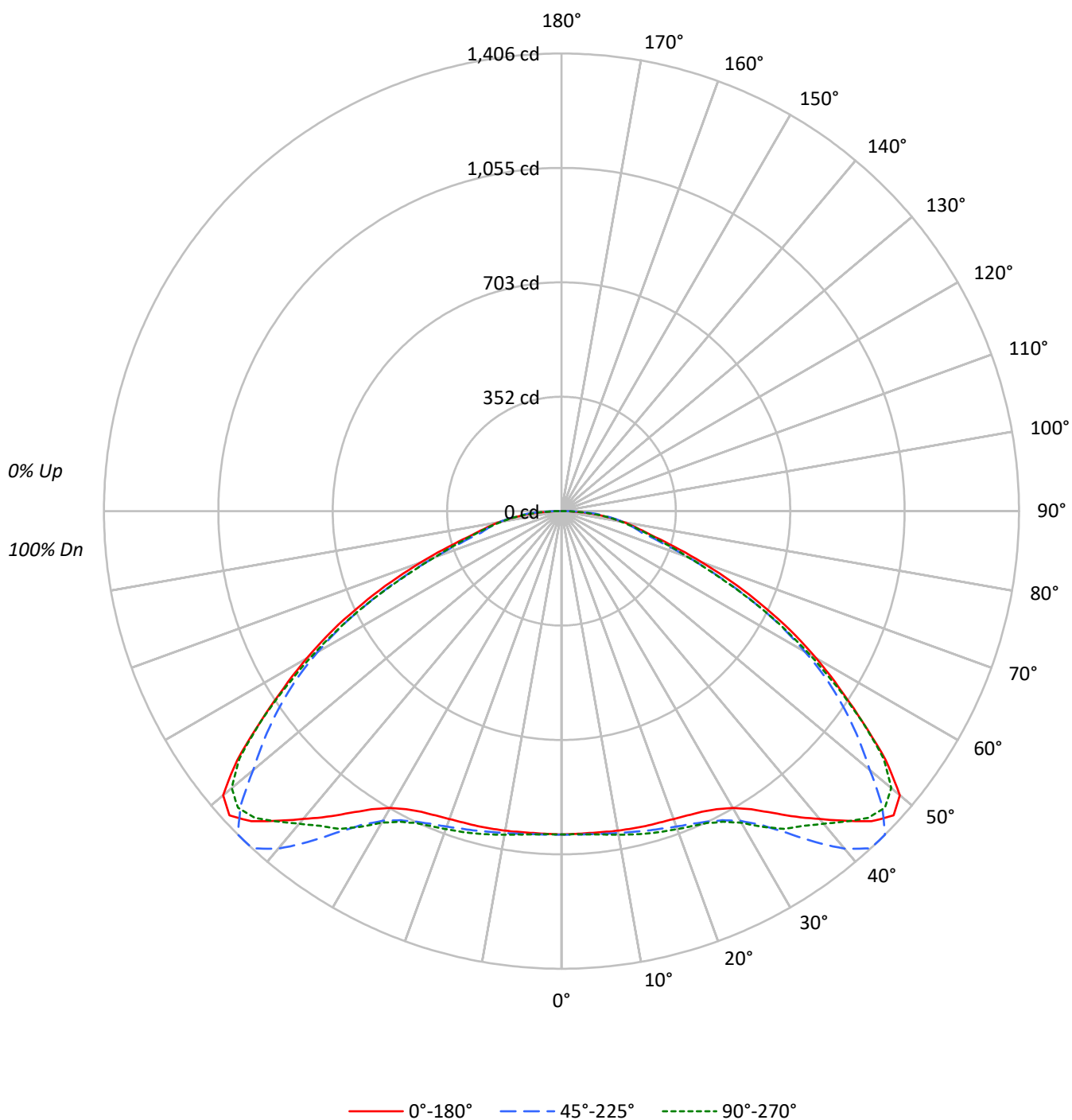
Lumens per Lamp: N/A
Luminaire Lumens: 4699.9 lumens
Efficiency: N/A
Efficacy: 129.8 lumens/watt
Spacing Criteria (0/90/45): 1.92 / 1.91 / 1.88
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 36.2
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	98	94	105	101	97	93	96	93	90		92	90	87		89	87	84		82
2	97	89	81	75	95	87	80	74	83	77	73		80	75	71		77	73	69		67
3	88	77	68	61	85	75	67	61	72	65	59		69	63	58		67	62	57		55
4	80	67	58	51	78	66	57	50	63	55	49		61	54	49		58	53	48		46
5	73	59	49	42	71	58	49	42	56	48	42		54	47	41		52	46	41		38
6	67	52	43	36	65	52	42	36	50	42	36		48	41	35		46	40	35		33
7	61	47	38	31	60	46	37	31	45	37	31		43	36	30		42	35	30		28
8	57	42	33	27	55	42	33	27	40	32	27		39	32	27		38	31	26		24
9	53	39	30	24	51	38	30	24	37	29	24		36	29	24		35	28	23		21
10	49	35	27	21	48	35	27	21	34	26	21		33	26	21		32	25	21		19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2673	2673	2673
5°	2681	2690	2693
10°	2724	2743	2758
15°	2790	2832	2856
20°	2883	2954	2977
25°	3026	3126	3139
30°	3271	3412	3434
35°	3715	3960	3914
40°	4338	4756	4403
45°	5128	5351	5071
50°	5682	5177	5537
55°	5298	4985	5294
60°	4864	4653	4739
65°	4302	4059	4053
70°	3604	3248	3255
75°	2963	2659	2871
80°	3013	2999	2875
85°	2961	3563	3013

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 50°
Luminance: 5682 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.3	2.0
10°-20°	288.1	6.1
20°-30°	487.0	10.4
30°-40°	748.9	15.9
40°-50°	1040.8	22.1
50°-60°	979.7	20.8
60°-70°	647.0	13.8
70°-80°	300.7	6.4
80°-90°	112.5	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°	870.4	18.5
0°-40°	1619.3	34.5
0°-60°	3639.7	77.4
0°-90°	4699.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4699.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	993	993	993	993	993	
5°	992	995	996	998	997	95
15°	1001	1006	1016	1024	1025	284
25°	1019	1032	1053	1059	1057	474
35°	1131	1171	1206	1201	1191	716
45°	1348	1396	1406	1372	1332	1031
55°	1129	1113	1063	1099	1128	1012
65°	676	669	637	647	636	671
75°	285	274	256	264	276	319
85°	96	110	115	112	98	105
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	993.4	993.4	993.4	993.4	993.4
2.5°	992.5	994.2	995.1	996.0	993.4
5°	992.5	995.1	996.0	997.8	996.9
7.5°	994.2	996.9	999.6	1001.3	1002.2
10°	996.9	999.6	1004.0	1009.3	1009.3
12.5°	998.7	1003.1	1009.3	1016.4	1017.3
15°	1001.3	1005.8	1016.4	1023.5	1025.3
17.5°	1003.1	1010.2	1022.7	1031.5	1032.4
20°	1006.7	1014.7	1031.5	1039.5	1039.5
22.5°	1012.0	1022.7	1040.4	1047.5	1047.5
25°	1019.1	1032.4	1052.8	1059.1	1057.3
27.5°	1032.4	1048.4	1070.6	1077.7	1075.9
30°	1052.8	1074.1	1098.1	1107.0	1105.2
32.5°	1085.7	1112.3	1142.5	1150.5	1149.6
35°	1131.0	1170.9	1205.5	1201.1	1191.3
37.5°	1183.3	1242.8	1281.9	1240.1	1218.8
40°	1234.8	1315.6	1353.8	1286.3	1253.5
42.5°	1289.9	1372.4	1405.3	1339.6	1293.4
45°	1347.6	1395.5	1406.1	1372.4	1332.5
47.5°	1384.0	1359.1	1336.0	1356.4	1348.4
50°	1357.3	1273.9	1236.6	1275.7	1322.7
52.5°	1256.1	1194.9	1151.4	1187.8	1247.2
55°	1129.2	1113.2	1062.6	1099.0	1128.3
57.5°	1012.9	1025.3	970.3	997.8	1002.2
60°	903.7	912.6	864.6	887.7	880.6
62.5°	792.7	793.6	756.3	769.7	759.0
65°	675.6	669.3	637.4	647.1	636.5
67.5°	565.5	551.3	521.1	525.5	515.8
70°	458.1	441.2	412.8	419.0	413.7
72.5°	362.2	348.9	324.0	332.0	337.3
75°	285.0	274.3	255.7	263.7	276.1
77.5°	236.1	222.8	224.6	219.3	228.1
80°	194.4	186.4	193.5	188.2	185.5
82.5°	144.7	152.7	155.4	158.0	144.7
85°	95.9	110.1	115.4	111.9	97.6
87.5°	47.0	59.5	61.3	60.4	50.6
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	18.6	20.4	19.0	20.7	21.0	18.5	20.2	18.8	20.5	20.9
	3H	19.9	21.5	20.3	21.8	22.2	19.6	21.2	20.0	21.5	21.9
	4H	20.3	21.8	20.7	22.1	22.5	20.0	21.5	20.4	21.9	22.2
	6H	20.6	22.0	21.1	22.4	22.8	20.4	21.8	20.8	22.1	22.5
	8H	20.8	22.1	21.2	22.5	22.9	20.5	21.9	21.0	22.3	22.6
	12H	20.9	22.2	21.3	22.6	23.0	20.7	21.9	21.1	22.3	22.8
4H	2H	19.1	20.6	19.5	20.9	21.3	18.9	20.4	19.3	20.8	21.2
	3H	20.5	21.8	20.9	22.2	22.6	20.3	21.5	20.7	21.9	22.3
	4H	21.0	22.2	21.5	22.6	23.0	20.8	21.9	21.2	22.3	22.8
	6H	21.5	22.5	22.0	22.9	23.4	21.3	22.3	21.7	22.7	23.2
	8H	21.7	22.6	22.2	23.1	23.6	21.5	22.4	22.0	22.9	23.3
	12H	21.9	22.7	22.4	23.2	23.7	21.7	22.5	22.2	23.0	23.5
8H	4H	21.2	22.1	21.7	22.6	23.0	21.0	21.9	21.4	22.4	22.8
	6H	21.8	22.6	22.3	23.1	23.6	21.6	22.4	22.1	22.9	23.4
	8H	22.1	22.8	22.6	23.3	23.8	22.0	22.7	22.5	23.2	23.6
	12H	22.4	23.1	22.9	23.5	24.1	22.3	22.9	22.8	23.4	23.9
12H	4H	21.2	22.1	21.7	22.6	23.0	21.0	21.9	21.5	22.3	22.8
	6H	21.9	22.6	22.4	23.1	23.6	21.7	22.4	22.2	22.9	23.4
	8H	22.3	22.9	22.8	23.4	23.9	22.1	22.7	22.6	23.2	23.8













(END OF REPORT)