

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: P1526902

Luminaire Tested: 24CGTX-45HE-A125-L830

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1526902
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2507-496-4)
Test Lab: INNOVATION CENTER
Issue Date: 8/24/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 24CGTX-45HE-A125-L830
Description: CGTX with A125 Lens Option

Light Source:
Ballast/Driver: -

Summary

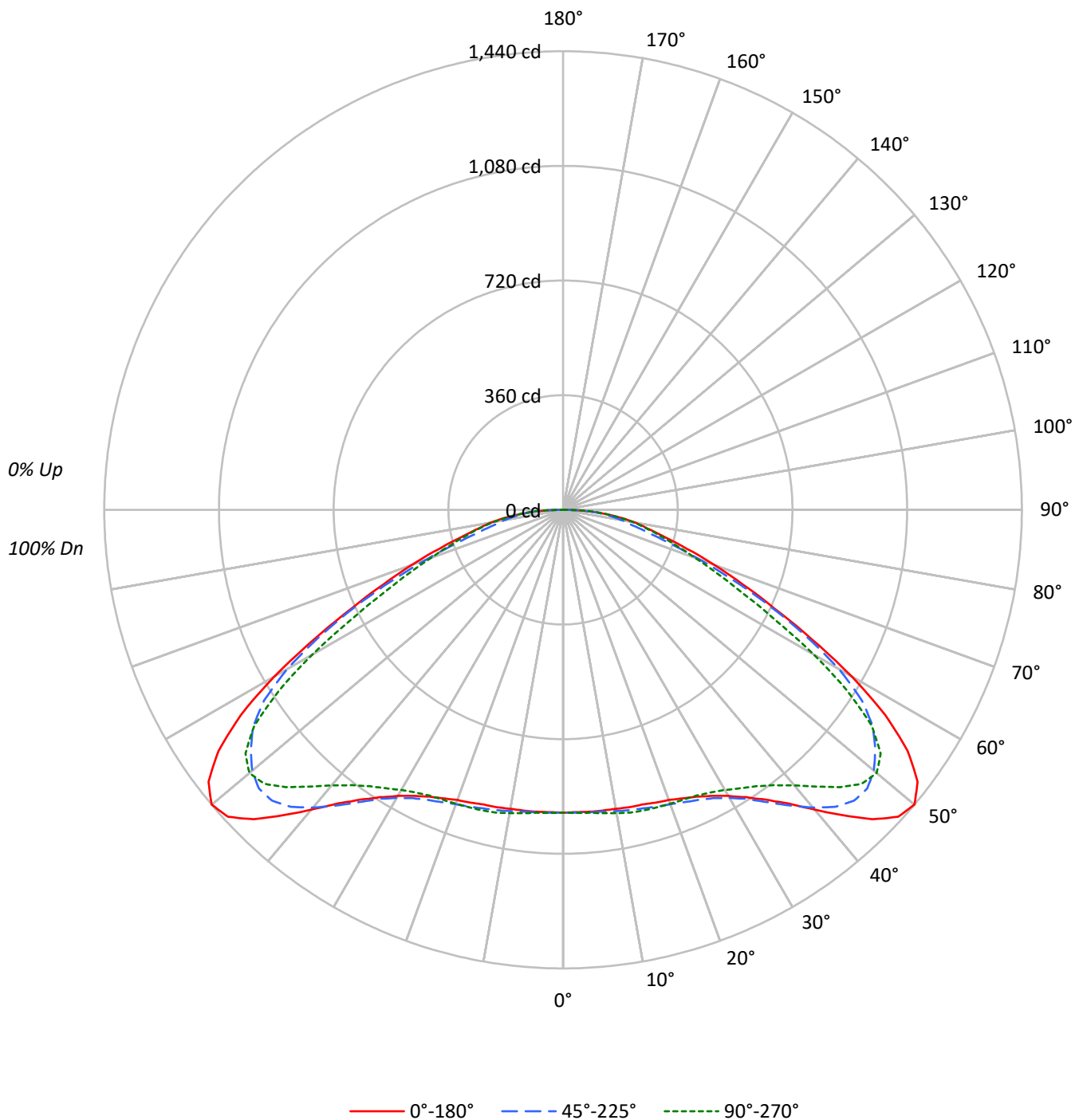
Lumens per Lamp: N/A
Luminaire Lumens: 4745.7 lumens
Efficiency: N/A
Efficacy: 136.8 lumens/watt
Spacing Criteria (0/90/45): 2.04 / 1.82 / 1.97
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 34.7
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	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	102	98	94	105	100	96	92	96	92	89	92	89	86	88	86	84	82			
2	97	88	80	74	94	86	79	73	82	76	71	79	74	70	76	72	68	66			
3	87	76	67	60	85	74	66	59	71	64	58	68	62	57	66	60	56	54			
4	79	66	56	49	77	65	56	49	62	54	48	60	53	47	57	51	47	44			
5	72	58	48	41	70	57	48	41	55	46	40	53	45	40	51	44	39	37			
6	66	51	42	35	64	50	41	35	49	40	34	47	39	34	45	39	34	31			
7	61	46	36	30	59	45	36	30	43	35	29	42	35	29	41	34	29	27			
8	56	41	32	26	54	41	32	26	39	31	26	38	31	25	37	30	25	23			
9	52	38	29	23	50	37	29	23	36	28	23	35	28	22	34	27	22	20			
10	48	34	26	20	47	34	26	20	33	25	20	32	25	20	31	24	20	18			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1279	1279	1279
5°	1285	1287	1290
10°	1302	1312	1321
15°	1335	1352	1361
20°	1388	1408	1406
25°	1475	1492	1470
30°	1611	1622	1578
35°	1825	1841	1740
40°	2158	2143	1983
45°	2614	2458	2342
50°	3013	2666	2690
55°	3097	2785	2776
60°	2815	2691	2443
65°	2328	2286	1993
70°	1988	1791	1733
75°	1721	1426	1640
80°	1783	1445	1726
85°	1802	1738	1916

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 3100 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.2	1.9
10°-20°	275.2	5.8
20°-30°	464.8	9.8
30°-40°	699.7	14.7
40°-50°	994.9	21.0
50°-60°	1067.7	22.5
60°-70°	695.8	14.7
70°-80°	334.6	7.0
80°-90°	121.8	2.6
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°	831.2	17.5
0°-40°	1530.8	32.3
0°-60°	3593.5	75.7
0°-90°	4745.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4745.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	951	951	951	951	951	
5°	952	952	953	956	955	91
15°	958	963	970	976	977	272
25°	993	1002	1005	996	990	463
35°	1111	1132	1121	1083	1059	705
45°	1374	1340	1292	1258	1231	1055
55°	1320	1287	1187	1153	1183	1155
65°	731	726	718	641	626	740
75°	331	313	274	312	316	364
85°	117	109	113	116	124	127
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	950.7	950.7	950.7	950.7	950.7
2.5°	949.9	950.7	951.5	952.3	952.3
5°	951.5	952.3	953.1	956.4	954.8
7.5°	952.3	953.1	955.6	960.5	960.5
10°	953.1	955.6	960.5	965.5	967.1
12.5°	956.4	958.9	965.5	972.0	973.7
15°	958.1	963.0	970.4	976.1	977.0
17.5°	963.8	968.8	977.0	979.4	979.4
20°	969.6	976.1	983.5	983.5	981.9
22.5°	980.3	987.7	993.4	988.5	985.2
25°	993.4	1002.4	1004.9	995.9	990.1
27.5°	1012.3	1023.8	1020.5	1008.2	1000.8
30°	1037.0	1051.7	1044.3	1026.3	1015.6
32.5°	1069.8	1087.9	1075.6	1052.6	1036.1
35°	1110.9	1132.3	1120.8	1083.0	1059.1
37.5°	1161.8	1184.0	1170.1	1121.6	1089.5
40°	1228.4	1239.9	1220.2	1167.6	1129.0
42.5°	1300.7	1295.0	1264.6	1216.1	1178.3
45°	1373.8	1340.2	1291.7	1258.0	1230.9
47.5°	1426.4	1364.0	1295.0	1277.7	1272.8
50°	1439.6	1359.0	1273.6	1267.0	1285.1
52.5°	1402.6	1332.8	1235.0	1223.5	1256.3
55°	1320.4	1286.7	1187.3	1152.8	1183.2
57.5°	1199.6	1197.2	1111.7	1050.1	1058.3
60°	1046.0	1055.9	1000.0	912.9	908.0
62.5°	880.0	885.8	861.1	770.7	753.5
65°	731.3	725.5	718.1	640.9	626.1
67.5°	608.9	591.6	580.1	533.3	525.9
70°	505.3	478.2	455.2	447.8	440.4
72.5°	409.2	389.5	352.5	373.0	372.2
75°	331.1	313.1	274.4	312.2	315.5
77.5°	271.2	258.8	221.9	256.4	267.0
80°	230.1	204.6	186.5	208.7	222.7
82.5°	175.8	156.1	152.0	161.0	174.2
85°	116.7	109.3	112.6	115.9	124.1
87.5°	59.2	63.3	68.2	74.0	78.1
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	17.3	19.0	17.6	19.3	19.7	16.3	18.1	16.7	18.4	18.8
	3H	18.4	20.0	18.7	20.3	20.7	17.5	19.1	17.9	19.4	19.8
	4H	18.7	20.3	19.1	20.6	21.0	17.9	19.5	18.3	19.8	20.2
	6H	19.1	20.5	19.5	20.9	21.3	18.4	19.8	18.8	20.2	20.5
	8H	19.3	20.6	19.7	21.0	21.4	18.6	19.9	19.0	20.3	20.7
	12H	19.4	20.7	19.8	21.1	21.5	18.8	20.1	19.2	20.4	20.9
4H	2H	17.7	19.2	18.1	19.5	19.9	16.9	18.4	17.3	18.8	19.1
	3H	18.9	20.2	19.3	20.6	21.0	18.2	19.5	18.6	19.9	20.3
	4H	19.4	20.6	19.9	21.0	21.4	18.8	20.0	19.2	20.4	20.8
	6H	19.9	21.0	20.4	21.4	21.8	19.4	20.4	19.8	20.8	21.3
	8H	20.2	21.1	20.6	21.6	22.0	19.6	20.6	20.1	21.0	21.5
	12H	20.4	21.2	20.8	21.7	22.2	19.9	20.8	20.4	21.2	21.7
8H	4H	19.6	20.6	20.1	21.0	21.5	19.0	20.0	19.5	20.4	20.9
	6H	20.2	21.0	20.7	21.5	22.0	19.7	20.5	20.2	21.0	21.5
	8H	20.5	21.2	21.0	21.7	22.2	20.1	20.8	20.6	21.3	21.8
	12H	20.8	21.4	21.3	21.9	22.5	20.4	21.1	20.9	21.6	22.1
12H	4H	19.6	20.5	20.1	21.0	21.4	19.0	19.9	19.5	20.4	20.9
	6H	20.3	21.0	20.8	21.4	22.0	19.8	20.5	20.3	21.0	21.5
	8H	20.6	21.3	21.1	21.7	22.3	20.2	20.8	20.7	21.3	21.9













(END OF REPORT)