

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: P1526903

Luminaire Tested: 24CGTX-45HE-A125-L835

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1526903
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-L835
Description: CGTX with A125 Lens Option

Light Source:
Ballast/Driver: -

Summary

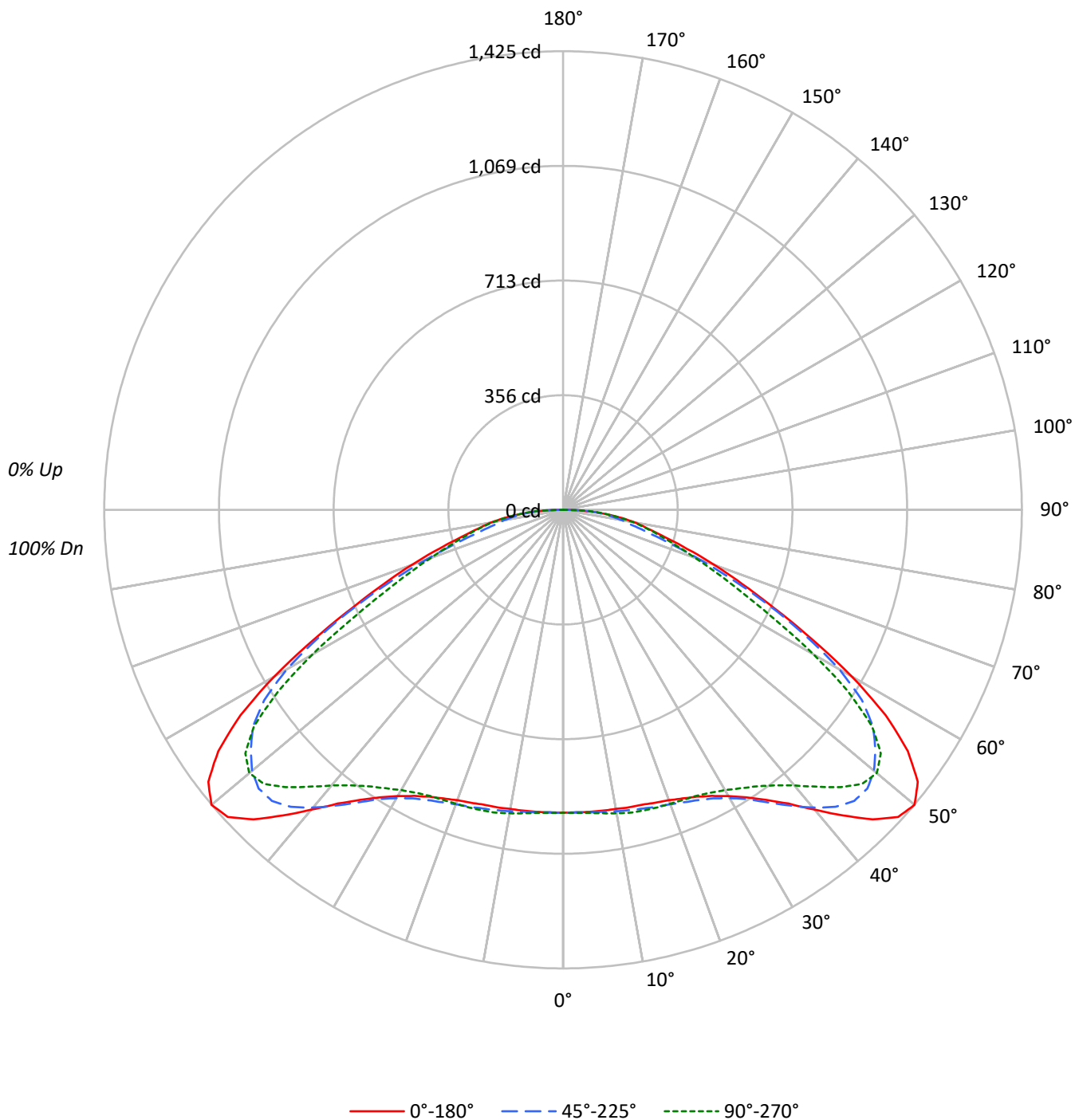
Lumens per Lamp: N/A
Luminaire Lumens: 4698.2 lumens
Efficiency: N/A
Efficacy: 135.4 lumens/watt
Spacing Criteria (0/90/45): 2.04 / 1.82 / 1.97
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	1266	1266	1266
5°	1272	1274	1277
10°	1289	1299	1308
15°	1321	1338	1347
20°	1374	1394	1392
25°	1460	1477	1455
30°	1595	1606	1562
35°	1806	1823	1722
40°	2136	2122	1963
45°	2588	2433	2319
50°	2983	2639	2663
55°	3066	2757	2748
60°	2787	2664	2419
65°	2305	2264	1974
70°	1968	1773	1715
75°	1704	1412	1624
80°	1765	1431	1708
85°	1783	1720	1896

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 3069 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.3	1.9
10°-20°	272.4	5.8
20°-30°	460.1	9.8
30°-40°	692.7	14.7
40°-50°	984.9	21.0
50°-60°	1057.1	22.5
60°-70°	688.9	14.7
70°-80°	331.2	7.1
80°-90°	120.5	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°	822.9	17.5
0°-40°	1515.5	32.3
0°-60°	3557.5	75.7
0°-90°	4698.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4698.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	941	941	941	941	941	
5°	942	943	944	947	945	90
15°	948	953	961	966	967	270
25°	984	992	995	986	980	458
35°	1100	1121	1110	1072	1048	698
45°	1360	1327	1279	1245	1219	1044
55°	1307	1274	1175	1141	1171	1144
65°	724	718	711	634	620	733
75°	328	310	272	309	312	360
85°	116	108	111	115	123	126
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	941.2	941.2	941.2	941.2	941.2
2.5°	940.4	941.2	942.0	942.8	942.8
5°	942.0	942.8	943.6	946.9	945.2
7.5°	942.8	943.6	946.1	950.9	950.9
10°	943.6	946.1	950.9	955.8	957.4
12.5°	946.9	949.3	955.8	962.3	963.9
15°	948.5	953.4	960.7	966.4	967.2
17.5°	954.2	959.1	967.2	969.6	969.6
20°	959.9	966.4	973.7	973.7	972.1
22.5°	970.5	977.8	983.5	978.6	975.3
25°	983.5	992.4	994.9	985.9	980.2
27.5°	1002.2	1013.6	1010.3	998.1	990.8
30°	1026.6	1041.2	1033.9	1016.0	1005.4
32.5°	1059.1	1077.0	1064.8	1042.0	1025.8
35°	1099.8	1120.9	1109.6	1072.1	1048.5
37.5°	1150.2	1172.2	1158.4	1110.4	1078.6
40°	1216.1	1227.5	1208.0	1155.9	1117.7
42.5°	1287.7	1282.0	1251.9	1203.9	1166.5
45°	1360.1	1326.7	1278.8	1245.4	1218.6
47.5°	1412.2	1350.3	1282.0	1264.9	1260.0
50°	1425.2	1345.5	1260.9	1254.4	1272.2
52.5°	1388.6	1319.4	1222.6	1211.2	1243.8
55°	1307.2	1273.9	1175.4	1141.3	1171.4
57.5°	1187.6	1185.2	1100.6	1039.6	1047.7
60°	1035.5	1045.3	990.0	903.8	898.9
62.5°	871.2	876.9	852.5	763.0	745.9
65°	724.0	718.3	711.0	634.5	619.9
67.5°	602.8	585.7	574.3	527.9	520.6
70°	500.3	473.4	450.7	443.3	436.0
72.5°	405.1	385.6	349.0	369.3	368.5
75°	327.8	309.9	271.7	309.1	312.4
77.5°	268.4	256.2	219.6	253.8	264.4
80°	227.8	202.6	184.7	206.6	220.4
82.5°	174.1	154.6	150.5	159.4	172.5
85°	115.5	108.2	111.4	114.7	122.8
87.5°	58.6	62.6	67.5	73.2	77.3
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	17.2	19.0	17.6	19.3	19.6	16.3	18.1	16.7	18.4	18.7
	3H	18.3	19.9	18.7	20.3	20.6	17.4	19.1	17.8	19.4	19.7
	4H	18.7	20.2	19.1	20.6	21.0	17.9	19.4	18.3	19.8	20.1
	6H	19.1	20.5	19.5	20.8	21.2	18.3	19.8	18.8	20.1	20.5
	8H	19.2	20.6	19.6	21.0	21.4	18.5	19.9	19.0	20.3	20.7
	12H	19.4	20.7	19.8	21.0	21.5	18.7	20.0	19.1	20.4	20.8
4H	2H	17.6	19.2	18.0	19.5	19.9	16.9	18.4	17.3	18.7	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	19.8	21.0	21.4	18.8	19.9	19.2	20.3	20.8
	6H	19.9	20.9	20.4	21.4	21.8	19.3	20.4	19.8	20.8	21.3
	8H	20.1	21.1	20.6	21.5	22.0	19.6	20.6	20.1	21.0	21.5
	12H	20.3	21.2	20.8	21.7	22.1	19.9	20.7	20.3	21.2	21.7
8H	4H	19.6	20.5	20.0	21.0	21.4	19.0	19.9	19.4	20.4	20.8
	6H	20.2	21.0	20.7	21.5	21.9	19.7	20.5	20.2	21.0	21.4
	8H	20.5	21.2	21.0	21.7	22.2	20.0	20.8	20.5	21.3	21.7
	12H	20.8	21.4	21.3	21.9	22.4	20.4	21.0	20.9	21.5	22.1
12H	4H	19.6	20.5	20.1	20.9	21.4	19.0	19.9	19.5	20.3	20.8
	6H	20.2	21.0	20.7	21.4	21.9	19.8	20.5	20.3	20.9	21.5
	8H	20.6	21.2	21.1	21.7	22.3	20.2	20.8	20.7	21.3	21.8















(END OF REPORT)