

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: P1526904

Luminaire Tested: 24CGTX-45HE-A125-L840

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1526904
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-L840
Description: CGTX with A125 Lens Option

Light Source:
Ballast/Driver: -

Summary

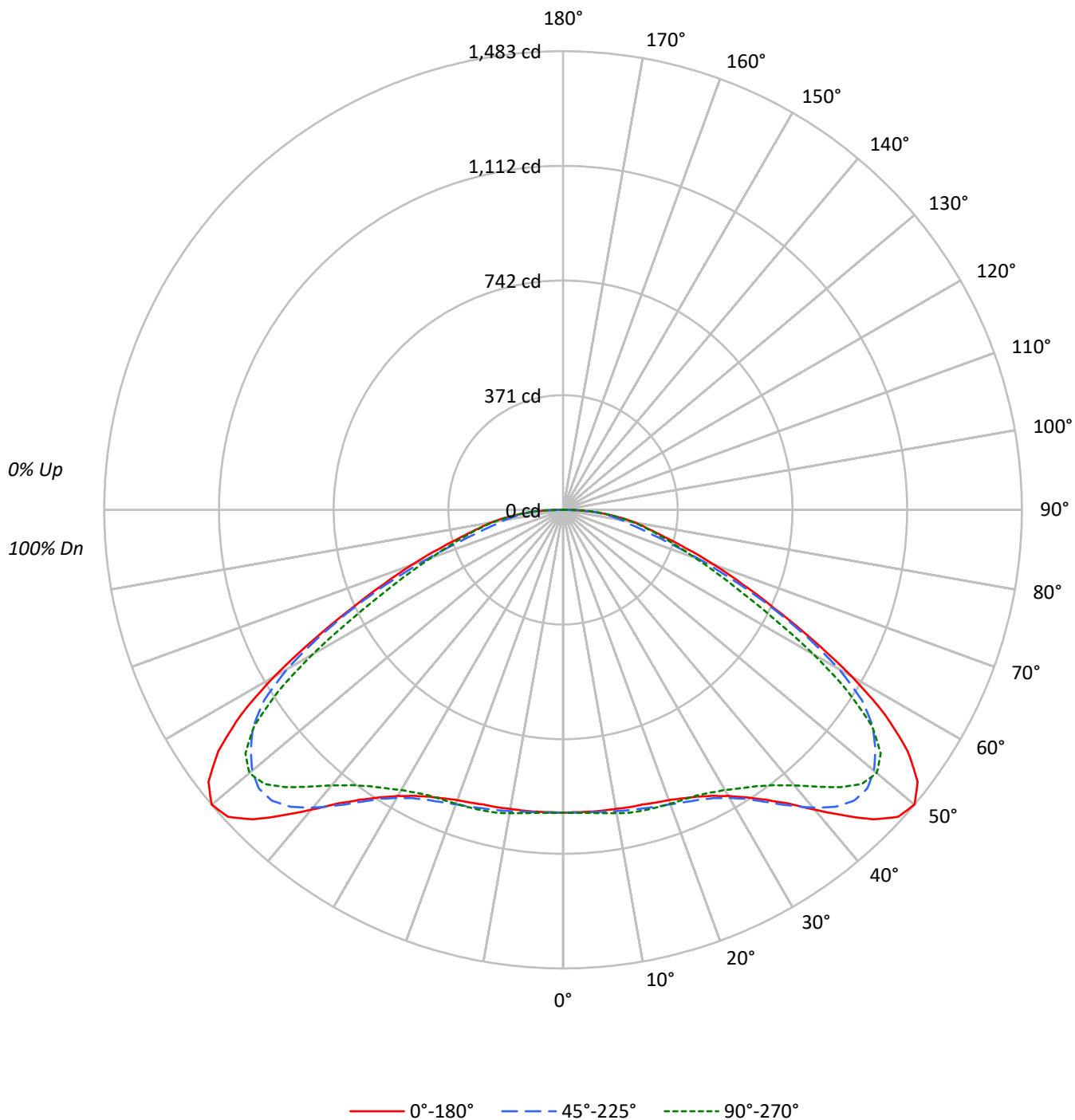
Lumens per Lamp: N/A
Luminaire Lumens: 4888.0 lumens
Efficiency: N/A
Efficacy: 140.9 lumens/watt
Spacing Criteria (0/90/45): 2.04 / 1.82 / 1.97
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	1318	1318	1318
5°	1324	1326	1328
10°	1341	1352	1361
15°	1375	1392	1402
20°	1430	1451	1448
25°	1519	1537	1514
30°	1659	1671	1625
35°	1879	1896	1792
40°	2222	2207	2043
45°	2693	2531	2412
50°	3104	2746	2771
55°	3190	2869	2859
60°	2899	2772	2517
65°	2398	2355	2053
70°	2048	1845	1784
75°	1773	1470	1690
80°	1836	1488	1777
85°	1856	1789	1973

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 3193 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.0	1.9
10°-20°	283.4	5.8
20°-30°	478.7	9.8
30°-40°	720.7	14.7
40°-50°	1024.7	21.0
50°-60°	1099.8	22.5
60°-70°	716.7	14.7
70°-80°	344.6	7.1
80°-90°	125.4	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°	856.1	17.5
0°-40°	1576.8	32.3
0°-60°	3701.3	75.7
0°-90°	4888.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4888.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	979	979	979	979	979	
5°	980	981	982	985	983	94
15°	987	992	1000	1005	1006	280
25°	1023	1032	1035	1026	1020	476
35°	1144	1166	1154	1116	1091	726
45°	1415	1380	1330	1296	1268	1086
55°	1360	1325	1223	1187	1219	1190
65°	753	747	740	660	645	762
75°	341	322	283	322	325	375
85°	120	113	116	119	128	131
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	979.2	979.2	979.2	979.2	979.2
2.5°	978.4	979.2	980.0	980.9	980.9
5°	980.0	980.9	981.7	985.1	983.4
7.5°	980.9	981.7	984.3	989.4	989.4
10°	981.7	984.3	989.4	994.4	996.1
12.5°	985.1	987.7	994.4	1001.2	1002.9
15°	986.8	991.9	999.5	1005.4	1006.3
17.5°	992.7	997.8	1006.3	1008.8	1008.8
20°	998.7	1005.4	1013.1	1013.1	1011.4
22.5°	1009.7	1017.3	1023.2	1018.1	1014.7
25°	1023.2	1032.5	1035.1	1025.7	1019.8
27.5°	1042.7	1054.5	1051.1	1038.4	1030.8
30°	1068.1	1083.3	1075.7	1057.1	1046.1
32.5°	1101.9	1120.5	1107.8	1084.1	1067.2
35°	1144.2	1166.2	1154.4	1115.5	1090.9
37.5°	1196.7	1219.6	1205.2	1155.2	1122.2
40°	1265.3	1277.1	1256.8	1202.6	1162.9
42.5°	1339.7	1333.8	1302.5	1252.6	1213.6
45°	1415.1	1380.4	1330.4	1295.7	1267.8
47.5°	1469.2	1404.9	1333.8	1316.0	1311.0
50°	1482.8	1399.8	1311.8	1305.0	1323.7
52.5°	1444.7	1372.7	1272.0	1260.2	1294.0
55°	1360.0	1325.3	1222.9	1187.4	1218.7
57.5°	1235.6	1233.1	1145.1	1081.6	1090.1
60°	1077.4	1087.5	1030.0	940.3	935.2
62.5°	906.4	912.3	886.9	793.9	776.1
65°	753.2	747.3	739.7	660.1	644.9
67.5°	627.1	609.4	597.5	549.3	541.6
70°	520.5	492.6	468.9	461.2	453.6
72.5°	421.5	401.2	363.1	384.2	383.4
75°	341.1	322.4	282.7	321.6	325.0
77.5°	279.3	266.6	228.5	264.1	275.1
80°	237.0	210.7	192.1	215.0	229.4
82.5°	181.1	160.8	156.6	165.9	179.4
85°	120.2	112.6	115.9	119.3	127.8
87.5°	60.9	65.2	70.2	76.2	80.4
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	17.4	19.1	17.7	19.4	19.8	16.4	18.2	16.8	18.5	18.9
	3H	18.5	20.1	18.8	20.4	20.8	17.6	19.2	18.0	19.5	19.9
	4H	18.9	20.4	19.2	20.7	21.1	18.0	19.6	18.4	19.9	20.3
	6H	19.2	20.6	19.6	21.0	21.4	18.5	19.9	18.9	20.3	20.7
	8H	19.4	20.7	19.8	21.1	21.5	18.7	20.0	19.1	20.4	20.8
	12H	19.5	20.8	19.9	21.2	21.6	18.9	20.2	19.3	20.5	21.0
4H	2H	17.8	19.3	18.2	19.6	20.0	17.0	18.5	17.4	18.9	19.3
	3H	19.0	20.3	19.5	20.7	21.1	18.3	19.6	18.7	20.0	20.4
	4H	19.5	20.7	20.0	21.1	21.6	18.9	20.1	19.3	20.5	20.9
	6H	20.0	21.1	20.5	21.5	21.9	19.5	20.5	19.9	20.9	21.4
	8H	20.3	21.2	20.7	21.7	22.1	19.7	20.7	20.2	21.1	21.6
	12H	20.5	21.3	20.9	21.8	22.3	20.0	20.9	20.5	21.3	21.8
8H	4H	19.7	20.7	20.2	21.1	21.6	19.1	20.1	19.6	20.5	21.0
	6H	20.3	21.1	20.8	21.6	22.1	19.8	20.6	20.3	21.1	21.6
	8H	20.6	21.3	21.1	21.8	22.3	20.2	20.9	20.7	21.4	21.9
	12H	20.9	21.5	21.4	22.0	22.6	20.5	21.2	21.0	21.7	22.2
12H	4H	19.7	20.6	20.2	21.1	21.5	19.2	20.0	19.6	20.5	21.0
	6H	20.4	21.1	20.9	21.5	22.1	19.9	20.6	20.4	21.1	21.6
	8H	20.7	21.4	21.2	21.8	22.4	20.3	20.9	20.8	21.4	22.0













(END OF REPORT)