

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: P1526905

Luminaire Tested: 24CGTX-45HE-A125-L850

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1526905
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-L850
Description: CGTX with A125 Lens Option

Light Source:
Ballast/Driver: -

Summary

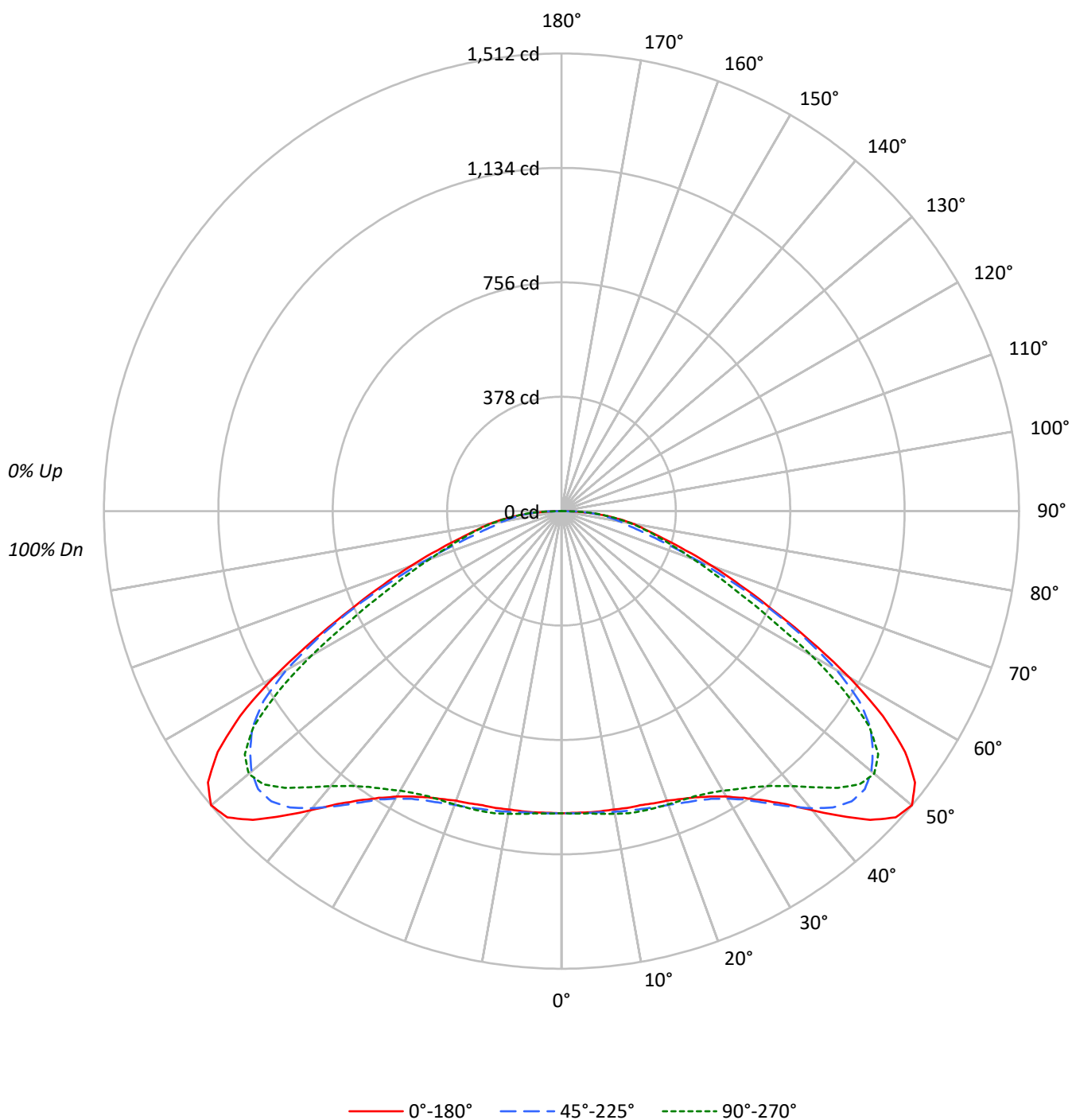
Lumens per Lamp: N/A
Luminaire Lumens: 4982.9 lumens
Efficiency: N/A
Efficacy: 143.6 lumens/watt
Spacing Criteria (0/90/45): 2.04 / 1.82 / 1.97
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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			
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	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°	1343	1343	1343
5°	1349	1352	1354
10°	1367	1378	1387
15°	1401	1419	1429
20°	1458	1479	1476
25°	1549	1567	1543
30°	1692	1704	1657
35°	1916	1933	1827
40°	2265	2250	2082
45°	2745	2581	2459
50°	3164	2799	2825
55°	3252	2924	2914
60°	2956	2826	2565
65°	2445	2401	2093
70°	2087	1880	1819
75°	1808	1498	1722
80°	1872	1517	1812
85°	1891	1825	2012

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 3255 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.8	1.9
10°-20°	288.9	5.8
20°-30°	488.0	9.8
30°-40°	734.7	14.7
40°-50°	1044.7	21.0
50°-60°	1121.1	22.5
60°-70°	730.6	14.7
70°-80°	351.3	7.0
80°-90°	127.8	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°	872.7	17.5
0°-40°	1607.4	32.3
0°-60°	3773.2	75.7
0°-90°	4982.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4982.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	998	998	998	998	998	
5°	999	1000	1001	1004	1002	95
15°	1006	1011	1019	1025	1026	286
25°	1043	1053	1055	1046	1040	486
35°	1166	1189	1177	1137	1112	740
45°	1442	1407	1356	1321	1292	1107
55°	1386	1351	1247	1210	1242	1213
65°	768	762	754	673	657	777
75°	348	329	288	328	331	382
85°	122	115	118	122	130	133
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	998.2	998.2	998.2	998.2	998.2
2.5°	997.3	998.2	999.1	999.9	999.9
5°	999.1	999.9	1000.8	1004.3	1002.5
7.5°	999.9	1000.8	1003.4	1008.6	1008.6
10°	1000.8	1003.4	1008.6	1013.7	1015.5
12.5°	1004.3	1006.8	1013.7	1020.6	1022.4
15°	1006.0	1011.2	1018.9	1025.0	1025.8
17.5°	1012.0	1017.2	1025.8	1028.4	1028.4
20°	1018.1	1025.0	1032.7	1032.7	1031.0
22.5°	1029.3	1037.0	1043.1	1037.9	1034.4
25°	1043.1	1052.6	1055.2	1045.7	1039.6
27.5°	1062.9	1075.0	1071.5	1058.6	1050.8
30°	1088.8	1104.3	1096.6	1077.6	1066.4
32.5°	1123.3	1142.3	1129.4	1105.2	1087.9
35°	1166.4	1188.9	1176.8	1137.1	1112.1
37.5°	1219.9	1243.2	1228.6	1177.7	1144.0
40°	1289.8	1301.9	1281.2	1226.0	1185.4
42.5°	1365.7	1359.7	1327.8	1276.9	1237.2
45°	1442.5	1407.2	1356.3	1320.9	1292.4
47.5°	1497.7	1432.2	1359.7	1341.6	1336.4
50°	1511.6	1427.0	1337.3	1330.4	1349.4
52.5°	1472.7	1399.4	1296.7	1284.6	1319.2
55°	1386.5	1351.1	1246.7	1210.4	1242.4
57.5°	1259.6	1257.0	1167.3	1102.6	1111.2
60°	1098.3	1108.6	1050.0	958.5	953.3
62.5°	924.0	930.1	904.2	809.3	791.1
65°	767.9	761.8	754.1	673.0	657.4
67.5°	639.3	621.2	609.1	559.9	552.2
70°	530.6	502.1	478.0	470.2	462.4
72.5°	429.7	408.9	370.1	391.7	390.8
75°	347.7	328.7	288.2	327.8	331.3
77.5°	284.7	271.8	232.9	269.2	280.4
80°	241.6	214.8	195.8	219.1	233.8
82.5°	184.6	163.9	159.6	169.1	182.9
85°	122.5	114.7	118.2	121.6	130.3
87.5°	62.1	66.4	71.6	77.6	82.0
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	19.2	17.8	19.5	19.8	16.5	18.3	16.9	18.6	18.9
	3H	18.5	20.1	18.9	20.5	20.8	17.6	19.3	18.0	19.6	19.9
	4H	18.9	20.4	19.3	20.8	21.2	18.1	19.6	18.5	20.0	20.4
	6H	19.3	20.7	19.7	21.1	21.4	18.5	20.0	19.0	20.3	20.7
	8H	19.4	20.8	19.9	21.2	21.6	18.7	20.1	19.2	20.5	20.9
	12H	19.6	20.9	20.0	21.2	21.7	18.9	20.2	19.3	20.6	21.0
4H	2H	17.8	19.4	18.2	19.7	20.1	17.1	18.6	17.5	18.9	19.3
	3H	19.1	20.4	19.5	20.8	21.2	18.4	19.7	18.8	20.1	20.5
	4H	19.6	20.8	20.0	21.2	21.6	19.0	20.1	19.4	20.5	21.0
	6H	20.1	21.1	20.6	21.6	22.0	19.6	20.6	20.0	21.0	21.5
	8H	20.3	21.3	20.8	21.7	22.2	19.8	20.8	20.3	21.2	21.7
	12H	20.5	21.4	21.0	21.9	22.3	20.1	20.9	20.5	21.4	21.9
8H	4H	19.8	20.7	20.2	21.2	21.6	19.2	20.1	19.6	20.6	21.0
	6H	20.4	21.2	20.9	21.7	22.1	19.9	20.7	20.4	21.2	21.6
	8H	20.7	21.4	21.2	21.9	22.4	20.2	21.0	20.7	21.5	21.9
	12H	21.0	21.6	21.5	22.1	22.6	20.6	21.2	21.1	21.7	22.3
12H	4H	19.8	20.7	20.3	21.1	21.6	19.2	20.1	19.7	20.6	21.0
	6H	20.4	21.2	21.0	21.6	22.2	20.0	20.7	20.5	21.1	21.7
	8H	20.8	21.4	21.3	21.9	22.5	20.4	21.0	20.9	21.5	22.0















(END OF REPORT)