

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: P1527122

Luminaire Tested: 24CGTX-45HE-F125-L850

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1527122
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2507-496-1)
Test Lab: INNOVATION CENTER
Issue Date: 8/24/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 24CGTX-45HE-F125-L850
Description: CGTX with F125 Lens Option

Light Source:
Ballast/Driver: -

Summary

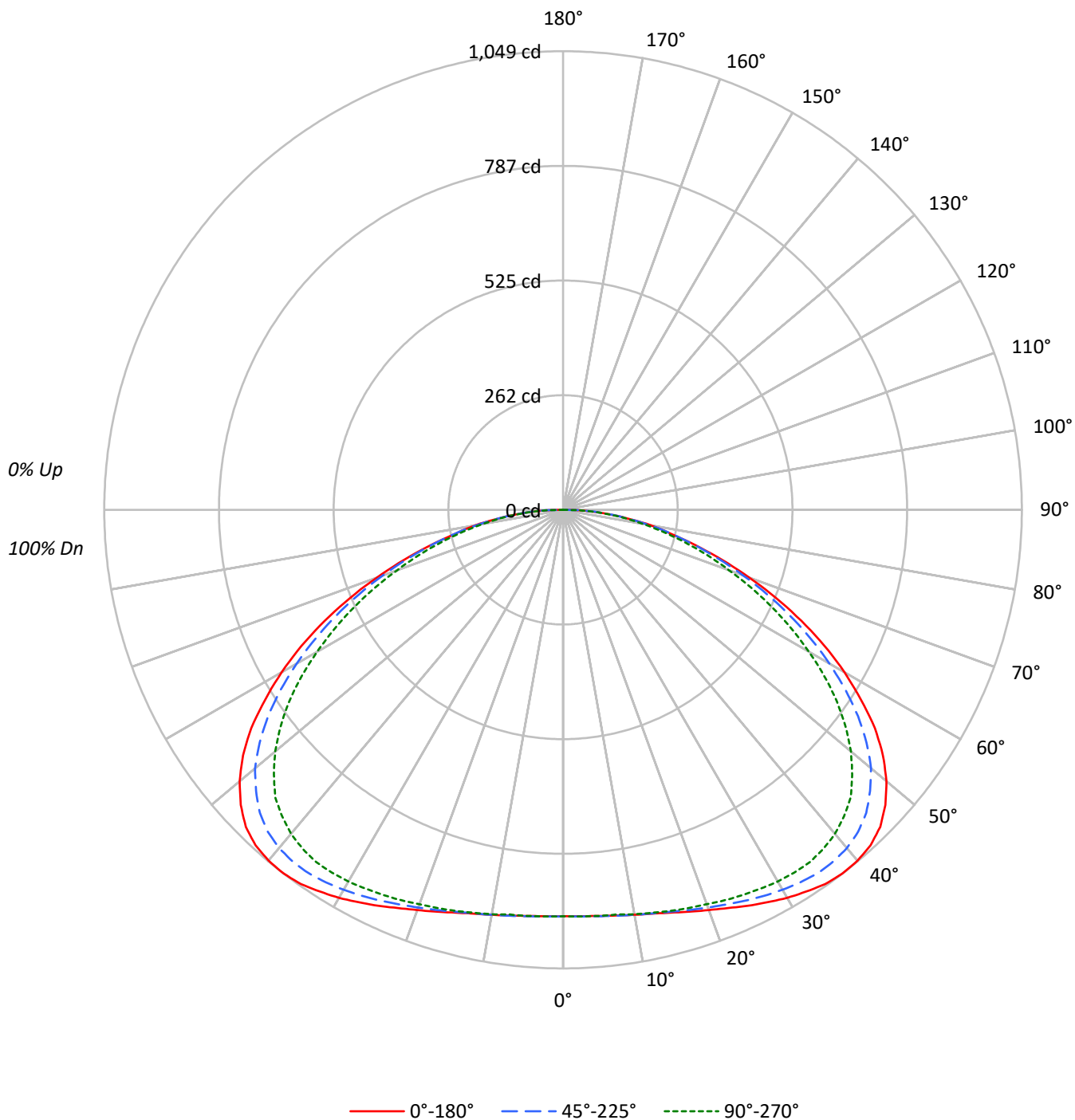
Lumens per Lamp: N/A
Luminaire Lumens: 3931.0 lumens
Efficiency: N/A
Efficacy: 113.3 lumens/watt
Spacing Criteria (0/90/45): 1.69 / 1.6 / 1.72
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1527122

CATALOG NUMBER: 24CGTX-45HE-F125-L850

Luminous Intensity Polar Plot



TEST NUMBER: P1527122

CATALOG NUMBER: 24CGTX-45HE-F125-L850

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	108	102	98	94	105	100	96	92	96	92	89		92	89	86		88
2	97	88	81	74	94	86	79	74	83	77	72		79	74	70		76
3	88	76	68	61	85	75	67	60	72	65	59		69	63	58		66
4	80	67	57	50	77	66	57	50	63	55	49		61	54	48		58
5	73	59	50	43	71	58	49	42	56	48	42		54	47	41		52
6	67	53	43	36	65	52	43	36	50	42	36		48	41	36		47
7	62	47	38	32	60	47	38	32	45	37	31		44	36	31		42
8	57	43	34	28	56	42	34	28	41	33	28		40	33	27		38
9	53	39	31	25	52	39	30	25	37	30	25		36	29	24		35
10	50	36	28	22	48	35	27	22	34	27	22		33	27	22		33

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1251	1251	1251
5°	1259	1260	1259
10°	1285	1285	1283
15°	1328	1325	1323
20°	1395	1386	1374
25°	1484	1465	1443
30°	1592	1559	1525
35°	1716	1667	1616
40°	1840	1774	1699
45°	1952	1865	1770
50°	2020	1924	1798
55°	2042	1931	1793
60°	2000	1893	1747
65°	1914	1822	1678
70°	1782	1723	1589
75°	1632	1621	1504
80°	1583	1551	1440
85°	1471	1535	1439

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 55°
Luminance: 2042 cd/sqm

TEST NUMBER: P1527122

CATALOG NUMBER: 24CGTX-45HE-F125-L850

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.3	2.3
10°-20°	270.4	6.9
20°-30°	456.7	11.6
30°-40°	635.4	16.2
40°-50°	752.1	19.1
50°-60°	729.7	18.6
60°-70°	562.2	14.3
70°-80°	328.0	8.3
80°-90°	107.2	2.7
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°	816.4	20.8
0°-40°	1451.8	36.9
0°-60°	2933.6	74.6
0°-90°	3931.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3931.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	930	930	930	930	930	
5°	932	933	933	933	932	89
15°	954	954	952	950	950	271
25°	1000	995	986	976	972	463
35°	1045	1036	1015	993	984	654
45°	1026	1012	980	947	930	788
55°	871	856	823	785	764	773
65°	601	594	572	543	527	594
75°	314	322	312	298	289	336
85°	95	100	99	97	93	107
90°	0	0	0	0	0	

TEST NUMBER: P1527122

CATALOG NUMBER: 24CGTX-45HE-F125-L850

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	929.6	929.6	929.6	929.6	929.6
2.5°	930.3	931.0	931.0	931.0	931.0
5°	932.3	933.0	933.0	933.0	932.3
7.5°	935.8	935.8	936.4	935.8	933.7
10°	940.6	940.6	940.6	939.9	939.2
12.5°	946.0	946.7	945.4	944.7	944.0
15°	953.6	953.6	951.5	949.5	949.5
17.5°	963.9	962.5	959.8	956.3	955.0
20°	974.1	972.8	968.0	962.5	959.8
22.5°	985.8	983.1	976.9	969.3	966.6
25°	999.5	995.4	986.5	976.2	972.1
27.5°	1011.9	1006.4	995.4	983.7	976.9
30°	1024.9	1018.0	1003.6	988.5	981.7
32.5°	1035.2	1028.3	1009.8	992.7	983.7
35°	1044.8	1035.8	1014.6	993.3	983.7
37.5°	1048.9	1039.3	1014.6	989.9	977.6
40°	1047.5	1037.2	1009.8	981.7	967.3
42.5°	1040.6	1028.3	998.8	967.3	950.8
45°	1025.6	1011.9	980.3	946.7	930.3
47.5°	999.5	985.8	952.2	916.6	896.7
50°	965.2	950.8	919.3	879.5	859.0
52.5°	922.0	907.7	874.7	834.3	814.4
55°	870.6	855.6	823.3	784.9	764.4
57.5°	807.6	796.6	765.1	728.7	708.8
60°	743.1	732.2	703.4	669.1	649.2
62.5°	673.9	665.0	638.9	606.7	589.6
65°	601.2	594.4	572.4	542.9	527.2
67.5°	527.2	524.4	504.6	479.2	465.5
70°	453.1	454.5	438.1	415.4	403.8
72.5°	381.2	386.0	372.9	354.4	346.2
75°	314.0	321.5	311.9	297.5	289.3
77.5°	251.6	261.9	253.6	242.7	235.8
80°	204.3	203.6	200.2	192.0	185.8
82.5°	146.7	149.4	147.4	142.6	139.2
85°	95.3	100.1	99.4	97.3	93.2
87.5°	47.3	52.8	53.5	52.1	50.0
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1527122

CATALOG NUMBER: 24CGTX-45HE-F125-L850

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	15.2	16.9	15.5	17.2	17.5	14.5	16.2	14.9	16.5	16.9
	3H	17.0	18.6	17.4	18.9	19.2	16.3	17.9	16.7	18.2	18.6
	4H	17.7	19.1	18.1	19.5	19.9	17.0	18.5	17.4	18.8	19.2
	6H	18.2	19.6	18.6	19.9	20.3	17.5	18.9	17.9	19.3	19.7
	8H	18.4	19.7	18.8	20.1	20.5	17.7	19.1	18.2	19.5	19.8
	12H	18.5	19.8	18.9	20.2	20.6	17.9	19.2	18.3	19.6	20.0
4H	2H	15.8	17.3	16.2	17.6	18.0	15.2	16.7	15.6	17.1	17.4
	3H	17.8	19.1	18.2	19.5	19.9	17.2	18.5	17.7	18.9	19.3
	4H	18.6	19.8	19.1	20.2	20.6	18.1	19.2	18.5	19.6	20.1
	6H	19.3	20.3	19.8	20.8	21.2	18.8	19.8	19.2	20.2	20.6
	8H	19.6	20.5	20.0	20.9	21.4	19.0	20.0	19.5	20.4	20.9
	12H	19.8	20.6	20.2	21.1	21.6	19.2	20.1	19.7	20.6	21.0
8H	4H	18.9	19.9	19.4	20.3	20.8	18.5	19.4	18.9	19.8	20.3
	6H	19.8	20.6	20.3	21.0	21.5	19.3	20.1	19.8	20.6	21.0
	8H	20.1	20.8	20.6	21.3	21.8	19.6	20.3	20.1	20.8	21.3
	12H	20.4	21.0	20.9	21.5	22.1	20.0	20.6	20.5	21.1	21.6
12H	4H	19.0	19.8	19.5	20.3	20.8	18.5	19.4	19.0	19.8	20.3
	6H	19.9	20.6	20.4	21.0	21.6	19.4	20.1	19.9	20.6	21.1
	8H	20.3	20.9	20.8	21.4	21.9	19.8	20.4	20.3	20.9	21.5













(END OF REPORT)