

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: P1527124

Luminaire Tested: 24CGTX-45HE-F125-L935

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1527124
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-L935
Description: CGTX with F125 Lens Option

Light Source:
Ballast/Driver: -

Summary

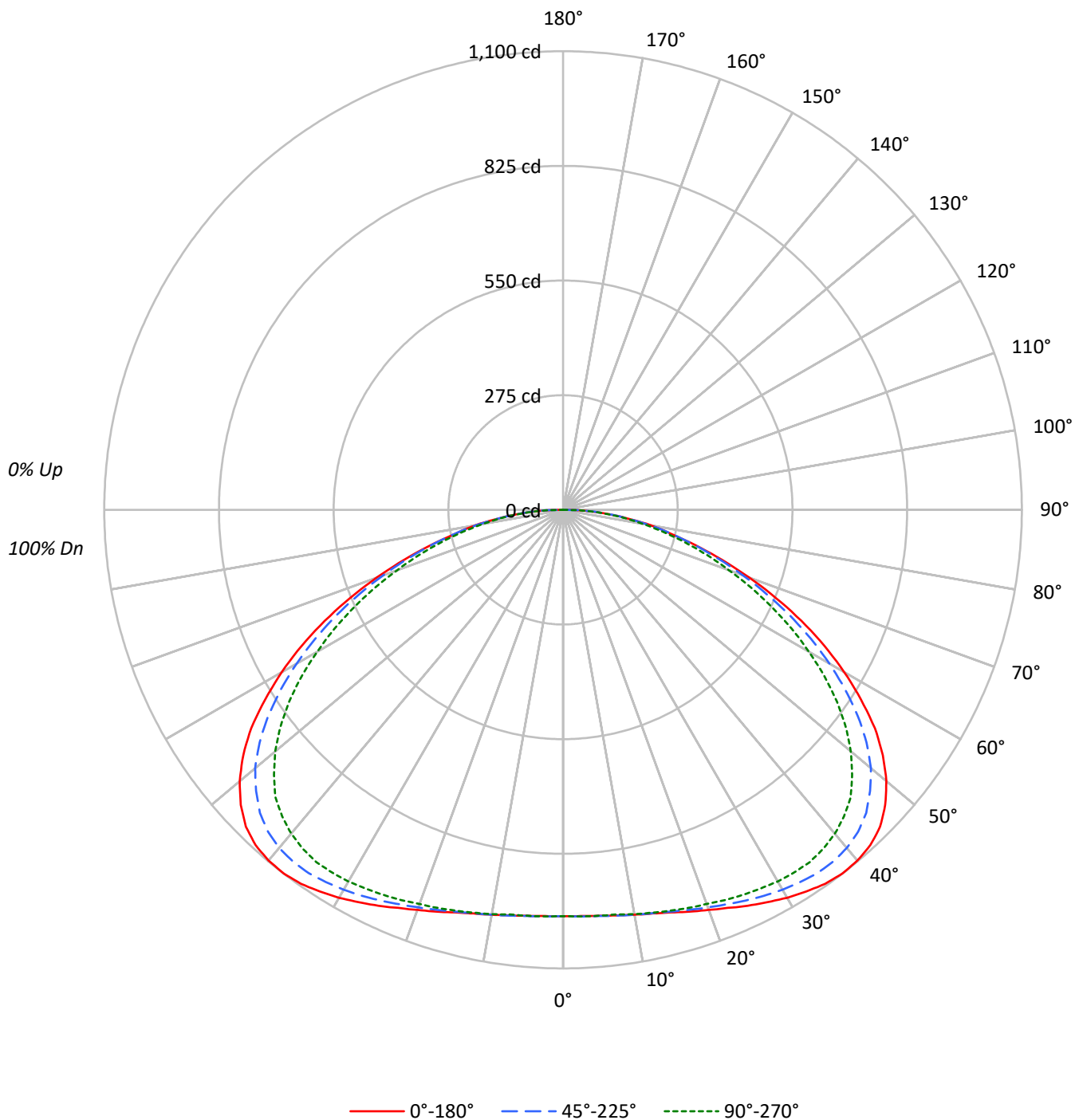
Lumens per Lamp: N/A
Luminaire Lumens: 4121.0 lumens
Efficiency: N/A
Efficacy: 118.8 lumens/watt
Spacing Criteria (0/90/45): 1.69 / 1.6 / 1.72
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

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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	81	74	94	86	79	74	83	77	72		79	74	70		76	72	69	66
3	88	76	68	61	85	75	67	60	72	65	59		69	63	58		66	61	57	54
4	80	67	57	50	77	66	57	50	63	55	49		61	54	48		58	53	48	45
5	73	59	50	43	71	58	49	42	56	48	42		54	47	41		52	46	41	39
6	67	53	43	36	65	52	43	36	50	42	36		48	41	36		47	40	35	33
7	62	47	38	32	60	47	38	32	45	37	31		44	36	31		42	36	31	29
8	57	43	34	28	56	42	34	28	41	33	28		40	33	27		38	32	27	25
9	53	39	31	25	52	39	30	25	37	30	25		36	29	24		35	29	24	22
10	50	36	28	22	48	35	27	22	34	27	22		33	27	22		33	26	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1311	1311	1311
5°	1320	1321	1320
10°	1347	1347	1345
15°	1393	1389	1387
20°	1462	1453	1441
25°	1556	1535	1513
30°	1669	1635	1599
35°	1799	1747	1694
40°	1929	1859	1781
45°	2046	1956	1856
50°	2118	2017	1885
55°	2141	2025	1880
60°	2096	1984	1831
65°	2007	1911	1760
70°	1869	1806	1665
75°	1711	1700	1577
80°	1660	1626	1509
85°	1542	1609	1508

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 55°

Luminance: 2141 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.6	2.3
10°-20°	283.5	6.9
20°-30°	478.8	11.6
30°-40°	666.1	16.2
40°-50°	788.4	19.1
50°-60°	764.9	18.6
60°-70°	589.4	14.3
70°-80°	343.9	8.3
80°-90°	112.4	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°	855.9	20.8
0°-40°	1521.9	36.9
0°-60°	3075.3	74.6
0°-90°	4121.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4121.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	974	974	974	974	974	
5°	977	978	978	978	977	94
15°	1000	1000	998	995	995	284
25°	1048	1044	1034	1023	1019	486
35°	1095	1086	1064	1041	1031	686
45°	1075	1061	1028	992	975	826
55°	913	897	863	823	801	810
65°	630	623	600	569	553	623
75°	329	337	327	312	303	353
85°	100	105	104	102	98	112
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	974.5	974.5	974.5	974.5	974.5
2.5°	975.2	976.0	976.0	976.0	976.0
5°	977.4	978.1	978.1	978.1	977.4
7.5°	981.0	981.0	981.7	981.0	978.8
10°	986.0	986.0	986.0	985.3	984.6
12.5°	991.8	992.5	991.0	990.3	989.6
15°	999.7	999.7	997.5	995.4	995.4
17.5°	1010.5	1009.0	1006.1	1002.5	1001.1
20°	1021.2	1019.8	1014.8	1009.0	1006.1
22.5°	1033.5	1030.6	1024.1	1016.2	1013.3
25°	1047.8	1043.5	1034.2	1023.4	1019.1
27.5°	1060.8	1055.0	1043.5	1031.3	1024.1
30°	1074.4	1067.2	1052.1	1036.3	1029.1
32.5°	1085.2	1078.0	1058.6	1040.6	1031.3
35°	1095.3	1085.9	1063.6	1041.4	1031.3
37.5°	1099.6	1089.5	1063.6	1037.8	1024.8
40°	1098.1	1087.4	1058.6	1029.1	1014.0
42.5°	1090.9	1078.0	1047.1	1014.0	996.8
45°	1075.1	1060.8	1027.7	992.5	975.2
47.5°	1047.8	1033.5	998.2	960.9	940.0
50°	1011.9	996.8	963.7	922.1	900.5
52.5°	966.6	951.5	917.0	874.6	853.8
55°	912.7	896.9	863.1	822.9	801.3
57.5°	846.6	835.1	802.0	763.9	743.1
60°	779.0	767.5	737.4	701.4	680.6
62.5°	706.5	697.1	669.8	636.0	618.1
65°	630.3	623.1	600.1	569.2	552.7
67.5°	552.7	549.8	528.9	502.4	488.0
70°	475.0	476.5	459.2	435.5	423.3
72.5°	399.6	404.6	391.0	371.6	362.9
75°	329.2	337.1	327.0	311.9	303.3
77.5°	263.8	274.5	265.9	254.4	247.2
80°	214.2	213.4	209.9	201.2	194.8
82.5°	153.8	156.7	154.5	149.5	145.9
85°	99.9	104.9	104.2	102.1	97.7
87.5°	49.6	55.3	56.1	54.6	52.5
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	15.3	17.1	15.7	17.4	17.7	14.7	16.4	15.0	16.7	17.0
	3H	17.2	18.7	17.5	19.1	19.4	16.5	18.0	16.8	18.4	18.7
	4H	17.8	19.3	18.2	19.7	20.0	17.1	18.6	17.5	19.0	19.4
	6H	18.3	19.7	18.8	20.1	20.5	17.7	19.1	18.1	19.4	19.8
	8H	18.5	19.9	19.0	20.3	20.7	17.9	19.2	18.3	19.6	20.0
	12H	18.7	20.0	19.1	20.3	20.8	18.1	19.3	18.5	19.7	20.1
4H	2H	15.9	17.4	16.3	17.8	18.1	15.4	16.9	15.8	17.2	17.6
	3H	18.0	19.2	18.4	19.6	20.0	17.4	18.7	17.8	19.1	19.5
	4H	18.8	19.9	19.2	20.3	20.8	18.2	19.4	18.7	19.8	20.2
	6H	19.5	20.5	19.9	20.9	21.4	18.9	19.9	19.4	20.4	20.8
	8H	19.7	20.7	20.2	21.1	21.6	19.2	20.1	19.6	20.6	21.0
	12H	19.9	20.8	20.4	21.3	21.7	19.4	20.3	19.9	20.7	21.2
8H	4H	19.1	20.1	19.6	20.5	21.0	18.6	19.6	19.1	20.0	20.5
	6H	19.9	20.7	20.4	21.2	21.7	19.4	20.2	19.9	20.7	21.2
	8H	20.3	21.0	20.8	21.5	22.0	19.8	20.5	20.3	21.0	21.5
	12H	20.6	21.2	21.1	21.7	22.2	20.1	20.8	20.6	21.2	21.8
12H	4H	19.2	20.0	19.6	20.5	20.9	18.7	19.5	19.2	20.0	20.5
	6H	20.0	20.7	20.5	21.2	21.7	19.6	20.3	20.1	20.7	21.3
	8H	20.4	21.0	20.9	21.5	22.1	20.0	20.6	20.5	21.1	21.6















(END OF REPORT)