

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: P1527118

Luminaire Tested: 24CGTX-45-F125-L850

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1527118
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-45-F125-L850
Description: CGTX with F125 Lens Option

Light Source:
Ballast/Driver: -

Summary

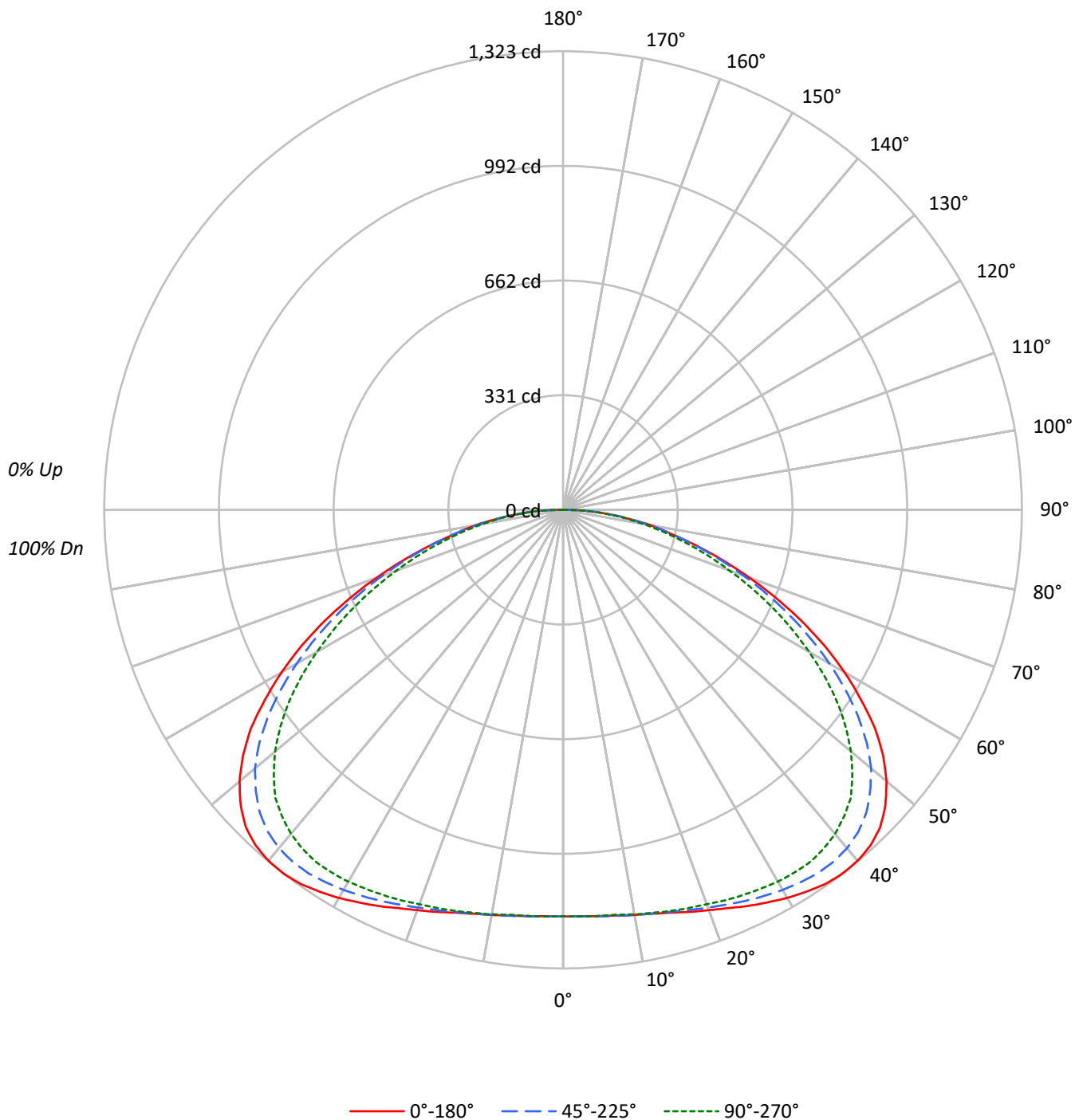
Lumens per Lamp: N/A
Luminaire Lumens: 4959.0 lumens
Efficiency: N/A
Efficacy: 139.3 lumens/watt
Spacing Criteria (0/90/45): 1.69 / 1.6 / 1.72
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 35.6
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		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°	1578	1578	1578
5°	1588	1590	1588
10°	1621	1621	1619
15°	1676	1672	1668
20°	1760	1748	1734
25°	1872	1848	1821
30°	2009	1967	1924
35°	2165	2102	2038
40°	2321	2237	2143
45°	2462	2353	2233
50°	2549	2427	2268
55°	2576	2436	2262
60°	2523	2388	2204
65°	2415	2299	2117
70°	2249	2174	2004
75°	2059	2046	1897
80°	1997	1956	1816
85°	1856	1936	1815

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 55°
Luminance: 2576 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.6	2.3
10°-20°	341.1	6.9
20°-30°	576.2	11.6
30°-40°	801.5	16.2
40°-50°	948.8	19.1
50°-60°	920.5	18.6
60°-70°	709.2	14.3
70°-80°	413.8	8.3
80°-90°	135.2	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°	1029.9	20.8
0°-40°	1831.4	36.9
0°-60°	3700.7	74.6
0°-90°	4959.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4959.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1173	1173	1173	1173	1173	
5°	1176	1177	1177	1177	1176	113
15°	1203	1203	1200	1198	1198	342
25°	1261	1256	1244	1232	1226	584
35°	1318	1307	1280	1253	1241	826
45°	1294	1276	1237	1194	1174	993
55°	1098	1079	1039	990	964	975
65°	758	750	722	685	665	749
75°	396	406	394	375	365	424
85°	120	126	125	123	118	134
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1172.7	1172.7	1172.7	1172.7	1172.7
2.5°	1173.6	1174.4	1174.4	1174.4	1174.4
5°	1176.1	1177.0	1177.0	1177.0	1176.1
7.5°	1180.5	1180.5	1181.3	1180.5	1177.9
10°	1186.5	1186.5	1186.5	1185.7	1184.8
12.5°	1193.4	1194.3	1192.6	1191.7	1190.8
15°	1203.0	1203.0	1200.4	1197.8	1197.8
17.5°	1215.9	1214.2	1210.7	1206.4	1204.7
20°	1228.9	1227.2	1221.1	1214.2	1210.7
22.5°	1243.6	1240.1	1232.4	1222.8	1219.4
25°	1260.9	1255.7	1244.5	1231.5	1226.3
27.5°	1276.5	1269.5	1255.7	1241.0	1232.4
30°	1292.9	1284.2	1266.1	1247.1	1238.4
32.5°	1305.9	1297.2	1273.9	1252.2	1241.0
35°	1318.0	1306.7	1279.9	1253.1	1241.0
37.5°	1323.2	1311.1	1279.9	1248.8	1233.2
40°	1321.4	1308.5	1273.9	1238.4	1220.3
42.5°	1312.8	1297.2	1260.0	1220.3	1199.5
45°	1293.8	1276.5	1236.7	1194.3	1173.6
47.5°	1260.9	1243.6	1201.2	1156.3	1131.2
50°	1217.7	1199.5	1159.7	1109.6	1083.6
52.5°	1163.2	1145.0	1103.5	1052.5	1027.4
55°	1098.3	1079.3	1038.6	990.2	964.3
57.5°	1018.7	1004.9	965.1	919.3	894.2
60°	937.5	923.6	887.3	844.1	819.0
62.5°	850.1	838.9	806.0	765.4	743.7
65°	758.4	749.8	722.1	684.9	665.0
67.5°	665.0	661.6	636.5	604.5	587.2
70°	571.6	573.4	552.6	524.1	509.4
72.5°	480.8	486.9	470.5	447.1	436.7
75°	396.1	405.6	393.5	375.3	365.0
77.5°	317.4	330.4	320.0	306.1	297.5
80°	257.7	256.8	252.5	242.1	234.4
82.5°	185.1	188.5	185.9	179.9	175.6
85°	120.2	126.3	125.4	122.8	117.6
87.5°	59.7	66.6	67.5	65.7	63.1
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	16.0	17.7	16.3	18.0	18.3	15.3	17.0	15.7	17.4	17.7
	3H	17.8	19.4	18.2	19.7	20.1	17.1	18.7	17.5	19.0	19.4
	4H	18.5	20.0	18.9	20.3	20.7	17.8	19.3	18.2	19.6	20.0
	6H	19.0	20.4	19.4	20.7	21.1	18.3	19.7	18.7	20.1	20.5
	8H	19.2	20.5	19.6	20.9	21.3	18.5	19.9	19.0	20.3	20.7
	12H	19.3	20.6	19.8	21.0	21.4	18.7	20.0	19.1	20.4	20.8
4H	2H	16.6	18.1	17.0	18.4	18.8	16.0	17.5	16.4	17.9	18.3
	3H	18.6	19.9	19.0	20.3	20.7	18.1	19.3	18.5	19.7	20.1
	4H	19.4	20.6	19.9	21.0	21.4	18.9	20.0	19.3	20.4	20.9
	6H	20.1	21.1	20.6	21.6	22.0	19.6	20.6	20.0	21.0	21.5
	8H	20.4	21.3	20.8	21.8	22.2	19.8	20.8	20.3	21.2	21.7
	12H	20.6	21.4	21.1	21.9	22.4	20.0	20.9	20.5	21.4	21.8
8H	4H	19.8	20.7	20.2	21.1	21.6	19.3	20.2	19.7	20.6	21.1
	6H	20.6	21.4	21.1	21.8	22.3	20.1	20.9	20.6	21.4	21.8
	8H	20.9	21.6	21.4	22.1	22.6	20.4	21.2	20.9	21.7	22.1
	12H	21.2	21.8	21.7	22.3	22.9	20.8	21.4	21.3	21.9	22.4
12H	4H	19.8	20.6	20.3	21.1	21.6	19.3	20.2	19.8	20.6	21.1
	6H	20.7	21.4	21.2	21.8	22.4	20.2	20.9	20.7	21.4	21.9
	8H	21.1	21.7	21.6	22.2	22.7	20.6	21.2	21.1	21.7	22.3













(END OF REPORT)