

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: P1527106

Luminaire Tested: 24CGTX-40-F125-L840

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1527106
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-40-F125-L840
Description: CGTX with F125 Lens Option

Light Source:
Ballast/Driver: -

Summary

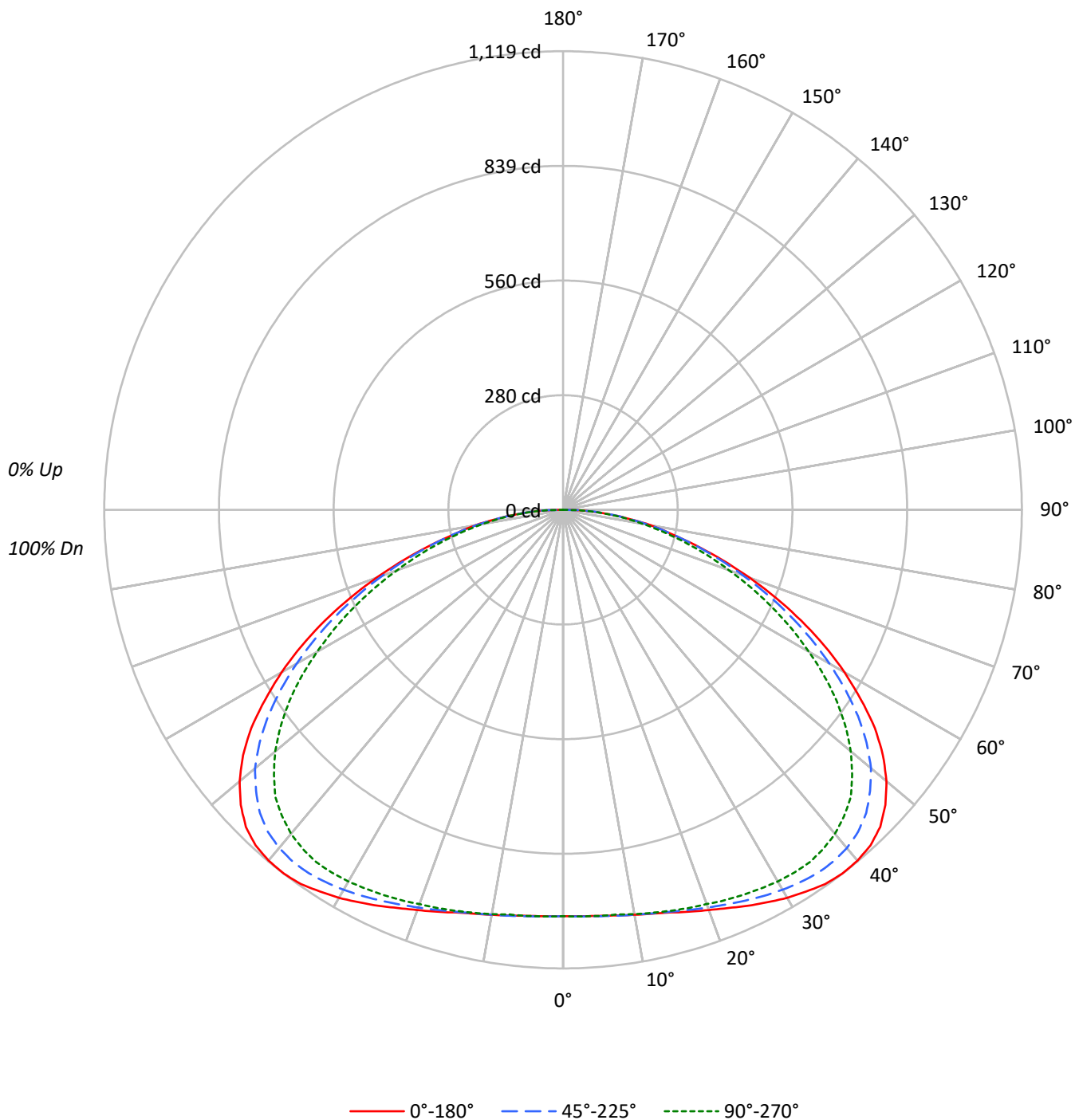
Lumens per Lamp: N/A
Luminaire Lumens: 4193.0 lumens
Efficiency: N/A
Efficacy: 138.4 lumens/watt
Spacing Criteria (0/90/45): 1.69 / 1.6 / 1.72
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 30.3
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: P1527106

CATALOG NUMBER: 24CGTX-40-F125-L840

Luminous Intensity Polar Plot



TEST NUMBER: P1527106

CATALOG NUMBER: 24CGTX-40-F125-L840

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°	1334	1334	1334
5°	1343	1344	1343
10°	1371	1371	1369
15°	1417	1414	1411
20°	1488	1478	1466
25°	1583	1562	1539
30°	1698	1663	1627
35°	1830	1778	1724
40°	1962	1892	1812
45°	2081	1990	1888
50°	2155	2053	1918
55°	2179	2060	1913
60°	2133	2019	1864
65°	2042	1944	1790
70°	1901	1838	1694
75°	1741	1730	1604
80°	1688	1654	1536
85°	1568	1636	1535

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 55°
Luminance: 2179 cd/sqm

TEST NUMBER: P1527106

CATALOG NUMBER: 24CGTX-40-F125-L840

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.2	2.3
10°-20°	288.4	6.9
20°-30°	487.2	11.6
30°-40°	677.7	16.2
40°-50°	802.2	19.1
50°-60°	778.3	18.6
60°-70°	599.7	14.3
70°-80°	349.9	8.3
80°-90°	114.3	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°	870.8	20.8
0°-40°	1548.5	36.9
0°-60°	3129.1	74.6
0°-90°	4193.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4193.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	992	992	992	992	992	
5°	994	995	995	995	994	95
15°	1017	1017	1015	1013	1013	289
25°	1066	1062	1052	1041	1037	494
35°	1114	1105	1082	1060	1049	698
45°	1094	1079	1046	1010	992	840
55°	929	913	878	837	815	824
65°	641	634	611	579	562	633
75°	335	343	333	317	309	359
85°	102	107	106	104	99	114
90°	0	0	0	0	0	

TEST NUMBER: P1527106

CATALOG NUMBER: 24CGTX-40-F125-L840

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	991.5	991.5	991.5	991.5	991.5
2.5°	992.3	993.0	993.0	993.0	993.0
5°	994.5	995.2	995.2	995.2	994.5
7.5°	998.1	998.1	998.9	998.1	995.9
10°	1003.2	1003.2	1003.2	1002.5	1001.8
12.5°	1009.1	1009.8	1008.4	1007.6	1006.9
15°	1017.1	1017.1	1014.9	1012.8	1012.8
17.5°	1028.1	1026.6	1023.7	1020.1	1018.6
20°	1039.1	1037.6	1032.5	1026.6	1023.7
22.5°	1051.5	1048.6	1042.0	1034.0	1031.0
25°	1066.1	1061.7	1052.2	1041.3	1036.9
27.5°	1079.3	1073.4	1061.7	1049.3	1042.0
30°	1093.2	1085.9	1070.5	1054.4	1047.1
32.5°	1104.2	1096.8	1077.1	1058.8	1049.3
35°	1114.4	1104.9	1082.2	1059.5	1049.3
37.5°	1118.8	1108.5	1082.2	1055.9	1042.7
40°	1117.3	1106.3	1077.1	1047.1	1031.8
42.5°	1110.0	1096.8	1065.4	1031.8	1014.2
45°	1093.9	1079.3	1045.7	1009.8	992.3
47.5°	1066.1	1051.5	1015.7	977.7	956.4
50°	1029.6	1014.2	980.6	938.2	916.2
52.5°	983.5	968.1	933.0	889.9	868.7
55°	928.7	912.6	878.2	837.3	815.3
57.5°	861.4	849.7	816.1	777.3	756.1
60°	792.7	781.0	750.2	713.7	692.5
62.5°	718.8	709.3	681.5	647.1	628.9
65°	641.3	634.0	610.6	579.1	562.3
67.5°	562.3	559.4	538.2	511.1	496.5
70°	483.3	484.8	467.3	443.1	430.7
72.5°	406.6	411.7	397.8	378.0	369.3
75°	334.9	342.9	332.7	317.4	308.6
77.5°	268.4	279.3	270.6	258.9	251.5
80°	217.9	217.2	213.5	204.7	198.2
82.5°	156.5	159.4	157.2	152.1	148.4
85°	101.6	106.8	106.0	103.8	99.4
87.5°	50.5	56.3	57.0	55.6	53.4
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1527106

CATALOG NUMBER: 24CGTX-40-F125-L840

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	15.4	17.1	15.8	17.4	17.8	14.7	16.5	15.1	16.8	17.1
	3H	17.2	18.8	17.6	19.1	19.5	16.5	18.1	16.9	18.4	18.8
	4H	17.9	19.4	18.3	19.7	20.1	17.2	18.7	17.6	19.0	19.4
	6H	18.4	19.8	18.8	20.2	20.5	17.8	19.1	18.2	19.5	19.9
	8H	18.6	19.9	19.0	20.3	20.7	18.0	19.3	18.4	19.7	20.1
	12H	18.7	20.0	19.2	20.4	20.8	18.1	19.4	18.6	19.8	20.2
4H	2H	16.0	17.5	16.4	17.8	18.2	15.5	17.0	15.9	17.3	17.7
	3H	18.0	19.3	18.4	19.7	20.1	17.5	18.7	17.9	19.1	19.5
	4H	18.9	20.0	19.3	20.4	20.8	18.3	19.4	18.7	19.8	20.3
	6H	19.5	20.5	20.0	21.0	21.4	19.0	20.0	19.4	20.4	20.9
	8H	19.8	20.7	20.2	21.2	21.6	19.2	20.2	19.7	20.6	21.1
	12H	20.0	20.8	20.5	21.3	21.8	19.5	20.3	19.9	20.8	21.3
8H	4H	19.2	20.1	19.6	20.6	21.0	18.7	19.6	19.1	20.1	20.5
	6H	20.0	20.8	20.5	21.3	21.7	19.5	20.3	20.0	20.8	21.3
	8H	20.3	21.0	20.8	21.5	22.0	19.9	20.6	20.4	21.1	21.6
	12H	20.6	21.3	21.1	21.8	22.3	20.2	20.8	20.7	21.3	21.9
12H	4H	19.2	20.1	19.7	20.5	21.0	18.7	19.6	19.2	20.1	20.5
	6H	20.1	20.8	20.6	21.2	21.8	19.6	20.3	20.1	20.8	21.3
	8H	20.5	21.1	21.0	21.6	22.1	20.0	20.7	20.5	21.1	21.7











(END OF REPORT)