

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: P1527107

Luminaire Tested: 24CGTX-40-F125-L850

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1527107
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-L850
Description: CGTX with F125 Lens Option

Light Source:
Ballast/Driver: -

Summary

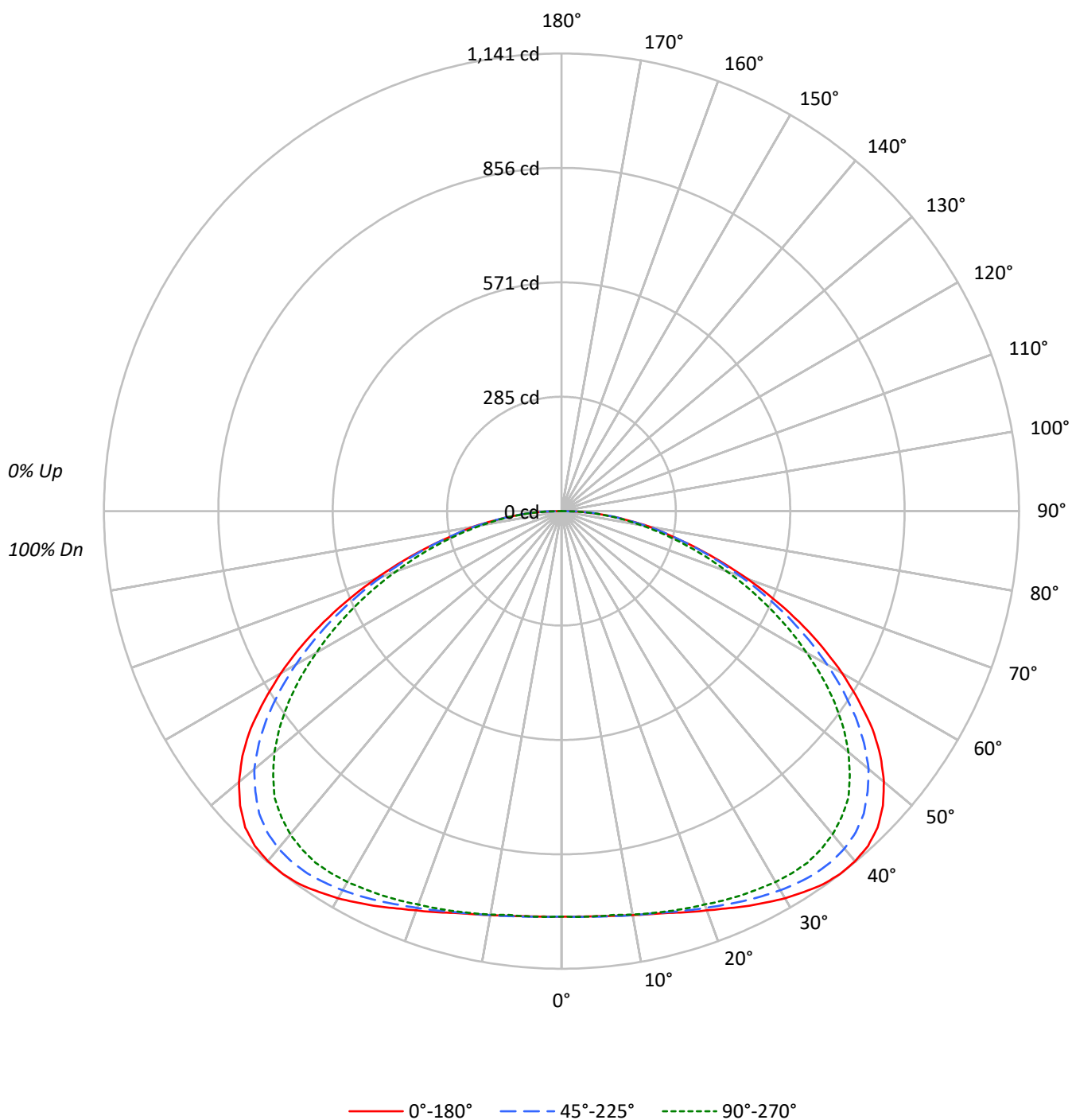
Lumens per Lamp: N/A
Luminaire Lumens: 4275.0 lumens
Efficiency: N/A
Efficacy: 141.1 lumens/watt
Spacing Criteria (0/90/45): 1.69 / 1.6 / 1.72
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

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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
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°	1360	1360	1360
5°	1369	1370	1369
10°	1398	1398	1395
15°	1444	1441	1438
20°	1517	1507	1494
25°	1614	1593	1570
30°	1732	1696	1659
35°	1866	1812	1757
40°	2001	1929	1848
45°	2122	2029	1925
50°	2197	2093	1955
55°	2221	2100	1950
60°	2175	2058	1900
65°	2082	1982	1825
70°	1939	1874	1727
75°	1775	1763	1635
80°	1722	1687	1565
85°	1599	1669	1565

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 55°
Luminance: 2221 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.1	2.3
10°-20°	294.1	6.9
20°-30°	496.7	11.6
30°-40°	691.0	16.2
40°-50°	817.9	19.1
50°-60°	793.5	18.6
60°-70°	611.4	14.3
70°-80°	356.7	8.3
80°-90°	116.6	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°	887.9	20.8
0°-40°	1578.8	36.9
0°-60°	3190.3	74.6
0°-90°	4275.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4275.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1011	1011	1011	1011	1011	
5°	1014	1015	1015	1015	1014	97
15°	1037	1037	1035	1033	1033	295
25°	1087	1082	1073	1062	1057	504
35°	1136	1126	1103	1080	1070	712
45°	1115	1100	1066	1030	1012	856
55°	947	930	895	854	831	840
65°	654	646	622	590	573	646
75°	342	350	339	324	315	366
85°	104	109	108	106	101	116
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1010.9	1010.9	1010.9	1010.9	1010.9
2.5°	1011.7	1012.4	1012.4	1012.4	1012.4
5°	1013.9	1014.7	1014.7	1014.7	1013.9
7.5°	1017.6	1017.6	1018.4	1017.6	1015.4
10°	1022.9	1022.9	1022.9	1022.1	1021.4
12.5°	1028.8	1029.6	1028.1	1027.3	1026.6
15°	1037.0	1037.0	1034.8	1032.6	1032.6
17.5°	1048.2	1046.7	1043.7	1040.0	1038.5
20°	1059.4	1057.9	1052.7	1046.7	1043.7
22.5°	1072.1	1069.1	1062.4	1054.2	1051.2
25°	1087.0	1082.5	1072.8	1061.6	1057.2
27.5°	1100.4	1094.4	1082.5	1069.8	1062.4
30°	1114.6	1107.1	1091.5	1075.1	1067.6
32.5°	1125.7	1118.3	1098.2	1079.5	1069.8
35°	1136.2	1126.5	1103.4	1080.3	1069.8
37.5°	1140.7	1130.2	1103.4	1076.5	1063.1
40°	1139.2	1128.0	1098.2	1067.6	1051.9
42.5°	1131.7	1118.3	1086.2	1051.9	1034.0
45°	1115.3	1100.4	1066.1	1029.6	1011.7
47.5°	1087.0	1072.1	1035.5	996.8	975.2
50°	1049.7	1034.0	999.8	956.5	934.1
52.5°	1002.7	987.1	951.3	907.3	885.7
55°	946.8	930.4	895.4	853.6	831.3
57.5°	878.2	866.3	832.0	792.5	770.9
60°	808.2	796.2	764.9	727.6	706.0
62.5°	732.9	723.2	694.8	659.8	641.2
65°	653.8	646.4	622.5	590.5	573.3
67.5°	573.3	570.3	548.7	521.1	506.2
70°	492.8	494.3	476.4	451.8	439.1
72.5°	414.5	419.7	405.6	385.4	376.5
75°	341.5	349.7	339.2	323.6	314.6
77.5°	273.6	284.8	275.8	263.9	256.5
80°	222.2	221.4	217.7	208.7	202.0
82.5°	159.5	162.5	160.3	155.1	151.3
85°	103.6	108.8	108.1	105.9	101.4
87.5°	51.4	57.4	58.2	56.7	54.4
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	15.5	17.2	15.8	17.5	17.8	14.8	16.5	15.2	16.8	17.2
	3H	17.3	18.9	17.7	19.2	19.5	16.6	18.2	17.0	18.5	18.8
	4H	17.9	19.4	18.3	19.8	20.2	17.3	18.8	17.7	19.1	19.5
	6H	18.5	19.9	18.9	20.2	20.6	17.8	19.2	18.2	19.6	20.0
	8H	18.7	20.0	19.1	20.4	20.8	18.0	19.4	18.5	19.7	20.1
	12H	18.8	20.1	19.2	20.5	20.9	18.2	19.5	18.6	19.8	20.3
4H	2H	16.1	17.5	16.5	17.9	18.3	15.5	17.0	15.9	17.4	17.7
	3H	18.1	19.4	18.5	19.8	20.2	17.5	18.8	17.9	19.2	19.6
	4H	18.9	20.1	19.4	20.5	20.9	18.4	19.5	18.8	19.9	20.3
	6H	19.6	20.6	20.1	21.0	21.5	19.0	20.0	19.5	20.5	20.9
	8H	19.9	20.8	20.3	21.2	21.7	19.3	20.2	19.8	20.7	21.2
	12H	20.1	20.9	20.5	21.4	21.8	19.5	20.4	20.0	20.9	21.3
8H	4H	19.2	20.2	19.7	20.6	21.1	18.7	19.7	19.2	20.1	20.6
	6H	20.1	20.8	20.5	21.3	21.8	19.6	20.4	20.1	20.8	21.3
	8H	20.4	21.1	20.9	21.6	22.1	19.9	20.6	20.4	21.1	21.6
	12H	20.7	21.3	21.2	21.8	22.4	20.2	20.9	20.8	21.4	21.9
12H	4H	19.3	20.1	19.8	20.6	21.1	18.8	19.7	19.3	20.1	20.6
	6H	20.1	20.9	20.7	21.3	21.9	19.7	20.4	20.2	20.9	21.4
	8H	20.5	21.2	21.0	21.7	22.2	20.1	20.7	20.6	21.2	21.8













(END OF REPORT)