

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: P1527109

Luminaire Tested: 24CGTX-40HE-F125-L835

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1527109
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-40HE-F125-L835
Description: CGTX with F125 Lens Option

Light Source:
Ballast/Driver: -

Summary

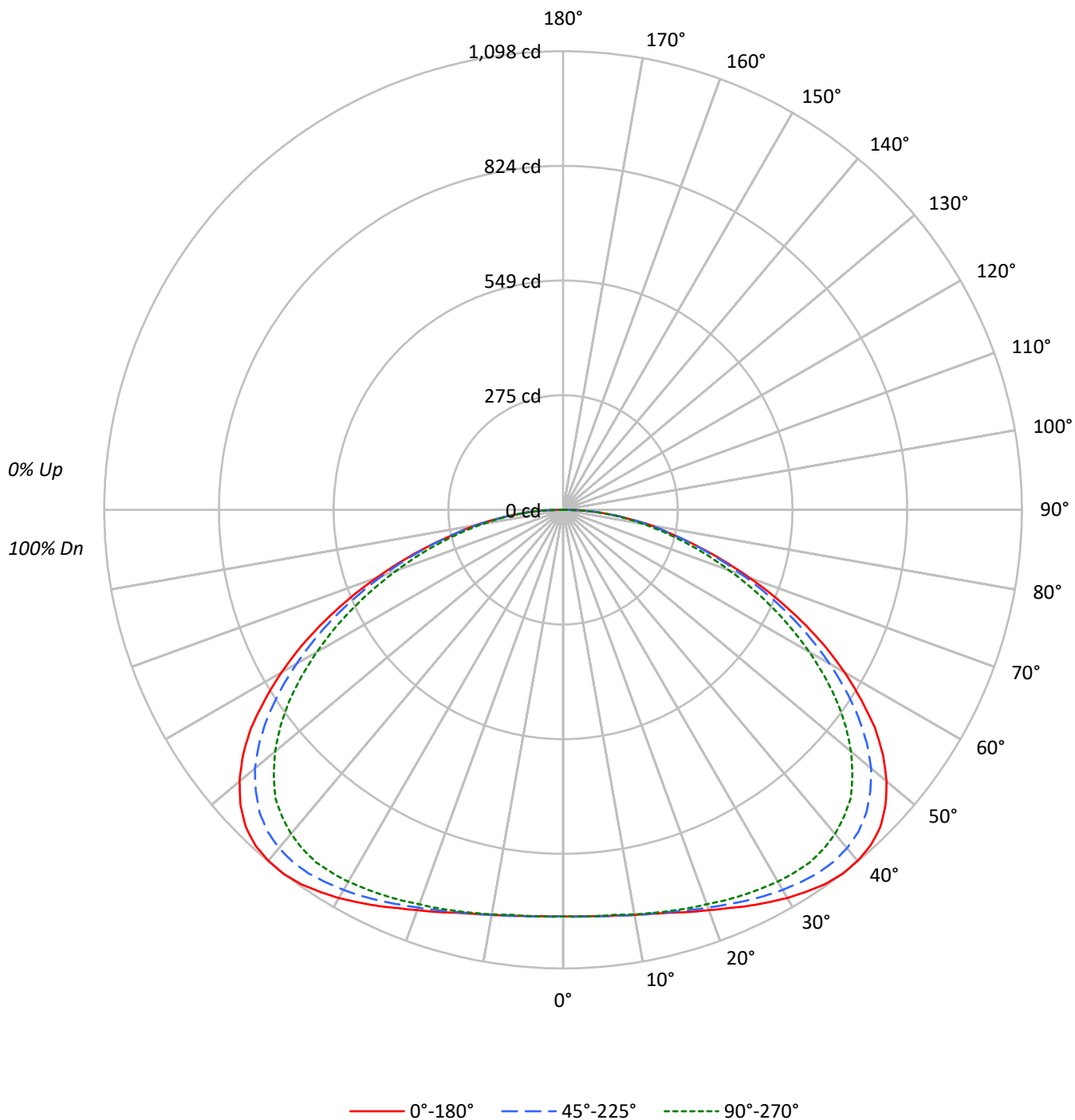
Lumens per Lamp: N/A
Luminaire Lumens: 4116.1 lumens
Efficiency: N/A
Efficacy: 137.7 lumens/watt
Spacing Criteria (0/90/45): 1.69 / 1.6 / 1.72
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 29.9
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°	1310	1310	1310
5°	1318	1320	1318
10°	1345	1345	1344
15°	1391	1388	1385
20°	1460	1451	1439
25°	1554	1533	1511
30°	1667	1633	1597
35°	1797	1745	1692
40°	1926	1857	1779
45°	2043	1953	1854
50°	2116	2015	1883
55°	2138	2022	1878
60°	2094	1982	1829
65°	2004	1908	1757
70°	1867	1805	1663
75°	1709	1698	1575
80°	1657	1624	1507
85°	1541	1607	1507

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 55°
Luminance: 2138 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.5	2.3
10°-20°	283.2	6.9
20°-30°	478.2	11.6
30°-40°	665.3	16.2
40°-50°	787.5	19.1
50°-60°	764.0	18.6
60°-70°	588.7	14.3
70°-80°	343.5	8.3
80°-90°	112.3	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°	854.9	20.8
0°-40°	1520.1	36.9
0°-60°	3071.7	74.6
0°-90°	4116.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4116.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	973	973	973	973	973	
5°	976	977	977	977	976	93
15°	998	998	996	994	994	284
25°	1047	1042	1033	1022	1018	485
35°	1094	1085	1062	1040	1030	685
45°	1074	1060	1026	991	974	825
55°	912	896	862	822	800	809
65°	630	622	599	568	552	622
75°	329	337	327	312	303	352
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°	973.4	973.4	973.4	973.4	973.4
2.5°	974.1	974.8	974.8	974.8	974.8
5°	976.2	977.0	977.0	977.0	976.2
7.5°	979.8	979.8	980.5	979.8	977.7
10°	984.8	984.8	984.8	984.1	983.4
12.5°	990.6	991.3	989.9	989.2	988.4
15°	998.5	998.5	996.3	994.2	994.2
17.5°	1009.3	1007.8	1004.9	1001.4	999.9
20°	1020.0	1018.6	1013.6	1007.8	1004.9
22.5°	1032.2	1029.4	1022.9	1015.0	1012.1
25°	1046.6	1042.3	1032.9	1022.2	1017.9
27.5°	1059.5	1053.8	1042.3	1030.1	1022.9
30°	1073.1	1066.0	1050.9	1035.1	1027.9
32.5°	1083.9	1076.7	1057.3	1039.4	1030.1
35°	1094.0	1084.6	1062.4	1040.1	1030.1
37.5°	1098.3	1088.2	1062.4	1036.5	1023.6
40°	1096.8	1086.1	1057.3	1027.9	1012.8
42.5°	1089.7	1076.7	1045.9	1012.8	995.6
45°	1073.9	1059.5	1026.5	991.3	974.1
47.5°	1046.6	1032.2	997.1	959.7	938.9
50°	1010.7	995.6	962.6	921.0	899.4
52.5°	965.5	950.4	915.9	873.6	852.8
55°	911.6	895.8	862.1	821.9	800.4
57.5°	845.6	834.1	801.1	763.0	742.2
60°	778.1	766.6	736.5	700.6	679.8
62.5°	705.6	696.3	669.0	635.3	617.3
65°	629.5	622.3	599.4	568.5	552.0
67.5°	552.0	549.1	528.3	501.8	487.4
70°	474.5	475.9	458.7	435.0	422.8
72.5°	399.1	404.1	390.5	371.1	362.5
75°	328.8	336.7	326.6	311.5	302.9
77.5°	263.4	274.2	265.6	254.1	246.9
80°	213.9	213.2	209.6	201.0	194.5
82.5°	153.6	156.5	154.3	149.3	145.7
85°	99.8	104.8	104.1	101.9	97.6
87.5°	49.5	55.3	56.0	54.6	52.4
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	15.3	17.1	15.7	17.4	17.7	14.7	16.4	15.0	16.7	17.0
	3H	17.1	18.7	17.5	19.0	19.4	16.4	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	19.3
	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	20.6	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	21.2	21.7	19.4	20.3	19.9	20.7	21.2
8H	4H	19.1	20.0	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	20.7	20.6	21.2	21.8
12H	4H	19.2	20.0	19.6	20.5	20.9	18.7	19.5	19.1	20.0	20.5
	6H	20.0	20.7	20.5	21.2	21.7	19.5	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)