

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: P1527114

Luminaire Tested: 24CGTX-40HE-F125-L940

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1527114
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-L940
Description: CGTX with F125 Lens Option

Light Source:
Ballast/Driver: -

Summary

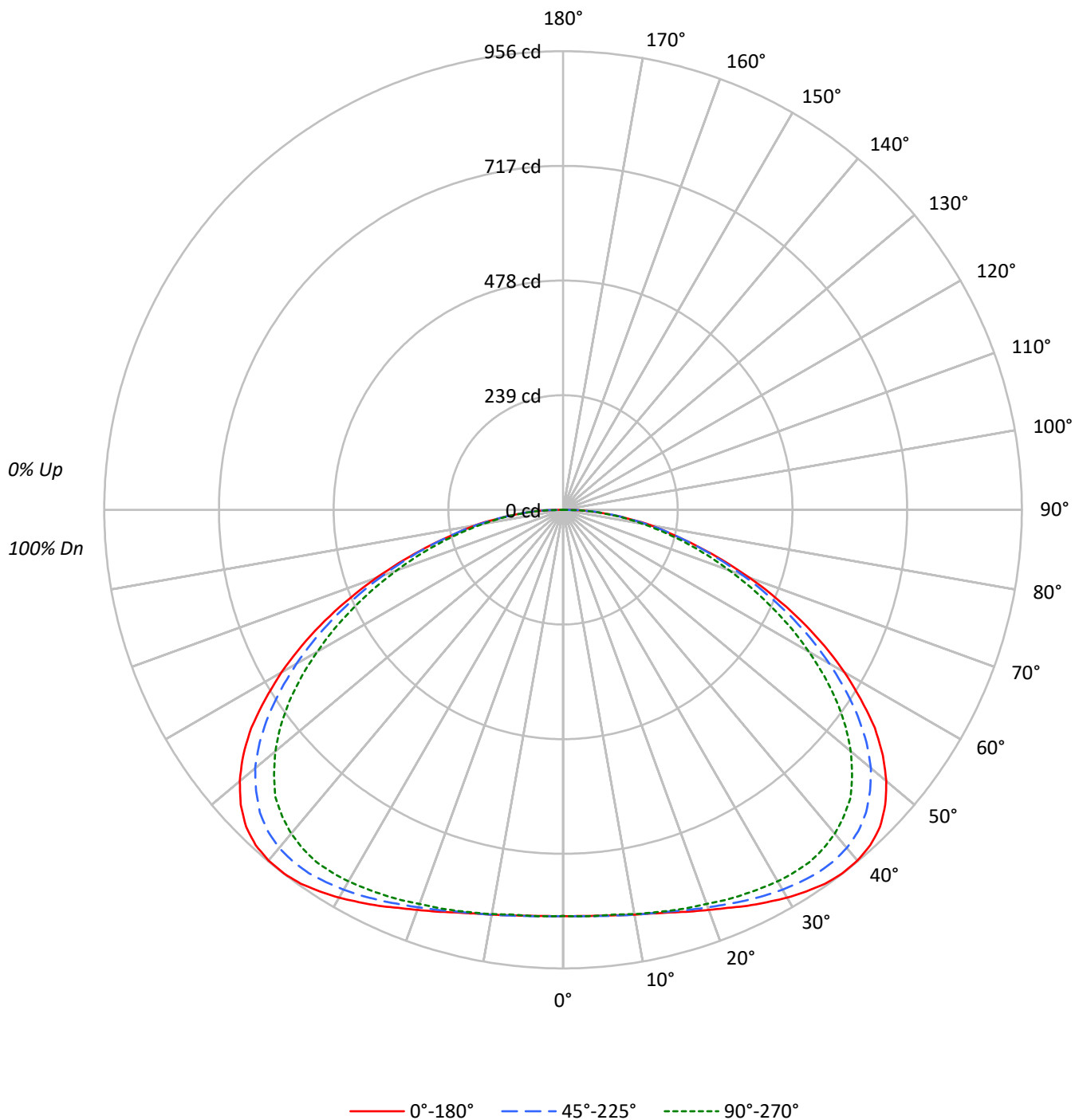
Lumens per Lamp: N/A
Luminaire Lumens: 3581.0 lumens
Efficiency: N/A
Efficacy: 119.8 lumens/watt
Spacing Criteria (0/90/45): 1.69 / 1.6 / 1.72
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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
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°	1139	1139	1139
5°	1147	1148	1147
10°	1171	1171	1169
15°	1210	1207	1205
20°	1271	1263	1252
25°	1352	1334	1315
30°	1450	1420	1389
35°	1563	1518	1472
40°	1676	1616	1548
45°	1778	1699	1612
50°	1841	1753	1638
55°	1860	1759	1633
60°	1822	1724	1591
65°	1744	1660	1529
70°	1624	1570	1447
75°	1487	1477	1370
80°	1442	1413	1311
85°	1340	1399	1311

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 55°

Luminance: 1860 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.3	2.3
10°-20°	246.3	6.9
20°-30°	416.1	11.6
30°-40°	578.8	16.2
40°-50°	685.1	19.1
50°-60°	664.7	18.6
60°-70°	512.1	14.3
70°-80°	298.8	8.3
80°-90°	97.7	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°	743.7	20.8
0°-40°	1322.5	36.9
0°-60°	2672.4	74.6
0°-90°	3581.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3581.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	847	847	847	847	847	
5°	849	850	850	850	849	81
15°	869	869	867	865	865	247
25°	910	907	899	889	886	422
35°	952	944	924	905	896	596
45°	934	922	893	862	847	717
55°	793	779	750	715	696	704
65°	548	541	522	495	480	541
75°	286	293	284	271	264	306
85°	87	91	91	89	85	97
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	846.8	846.8	846.8	846.8	846.8
2.5°	847.4	848.1	848.1	848.1	848.1
5°	849.3	849.9	849.9	849.9	849.3
7.5°	852.4	852.4	853.1	852.4	850.6
10°	856.8	856.8	856.8	856.2	855.6
12.5°	861.8	862.4	861.2	860.6	859.9
15°	868.7	868.7	866.8	864.9	864.9
17.5°	878.0	876.8	874.3	871.2	869.9
20°	887.4	886.2	881.8	876.8	874.3
22.5°	898.0	895.5	889.9	883.0	880.5
25°	910.5	906.8	898.7	889.3	885.5
27.5°	921.8	916.8	906.8	896.2	889.9
30°	933.6	927.4	914.3	900.5	894.3
32.5°	943.0	936.7	919.9	904.3	896.2
35°	951.7	943.6	924.3	904.9	896.2
37.5°	955.5	946.7	924.3	901.8	890.5
40°	954.2	944.9	919.9	894.3	881.2
42.5°	948.0	936.7	909.9	881.2	866.2
45°	934.3	921.8	893.0	862.4	847.4
47.5°	910.5	898.0	867.4	835.0	816.8
50°	879.3	866.2	837.5	801.2	782.5
52.5°	840.0	826.8	796.9	760.0	741.9
55°	793.1	779.4	750.0	715.1	696.3
57.5°	735.7	725.7	696.9	663.8	645.7
60°	677.0	667.0	640.7	609.5	591.4
62.5°	613.9	605.8	582.0	552.7	537.1
65°	547.7	541.4	521.5	494.6	480.2
67.5°	480.2	477.7	459.6	436.5	424.0
70°	412.8	414.0	399.1	378.4	367.8
72.5°	347.2	351.6	339.7	322.9	315.4
75°	286.0	292.9	284.1	271.0	263.5
77.5°	229.2	238.6	231.1	221.1	214.8
80°	186.1	185.5	182.4	174.9	169.2
82.5°	133.6	136.1	134.3	129.9	126.8
85°	86.8	91.2	90.6	88.7	84.9
87.5°	43.1	48.1	48.7	47.5	45.6
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	14.8	16.6	15.2	16.9	17.2	14.2	15.9	14.5	16.2	16.5
	3H	16.7	18.2	17.0	18.6	18.9	16.0	17.5	16.3	17.9	18.2
	4H	17.3	18.8	17.7	19.2	19.5	16.7	18.1	17.1	18.5	18.9
	6H	17.9	19.2	18.3	19.6	20.0	17.2	18.6	17.6	19.0	19.3
	8H	18.1	19.4	18.5	19.8	20.2	17.4	18.7	17.8	19.1	19.5
	12H	18.2	19.5	18.6	19.9	20.3	17.6	18.9	18.0	19.2	19.7
4H	2H	15.4	16.9	15.8	17.3	17.7	14.9	16.4	15.3	16.8	17.1
	3H	17.5	18.7	17.9	19.1	19.5	16.9	18.2	17.3	18.6	19.0
	4H	18.3	19.5	18.7	19.9	20.3	17.7	18.9	18.2	19.3	19.7
	6H	19.0	20.0	19.4	20.4	20.9	18.4	19.4	18.9	19.9	20.3
	8H	19.2	20.2	19.7	20.6	21.1	18.7	19.6	19.1	20.1	20.5
	12H	19.4	20.3	19.9	20.8	21.2	18.9	19.8	19.4	20.2	20.7
8H	4H	18.6	19.6	19.1	20.0	20.5	18.1	19.1	18.6	19.5	20.0
	6H	19.4	20.2	19.9	20.7	21.2	19.0	19.7	19.4	20.2	20.7
	8H	19.8	20.5	20.3	21.0	21.5	19.3	20.0	19.8	20.5	21.0
	12H	20.1	20.7	20.6	21.2	21.8	19.6	20.3	20.1	20.8	21.3
12H	4H	18.7	19.5	19.1	20.0	20.5	18.2	19.0	18.7	19.5	20.0
	6H	19.5	20.2	20.0	20.7	21.2	19.1	19.8	19.6	20.2	20.8
	8H	19.9	20.6	20.4	21.0	21.6	19.5	20.1	20.0	20.6	21.1













(END OF REPORT)