

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: P1527110

Luminaire Tested: 24CGTX-40HE-F125-L840

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1527110
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-L840
Description: CGTX with F125 Lens Option

Light Source:
Ballast/Driver: -

Summary

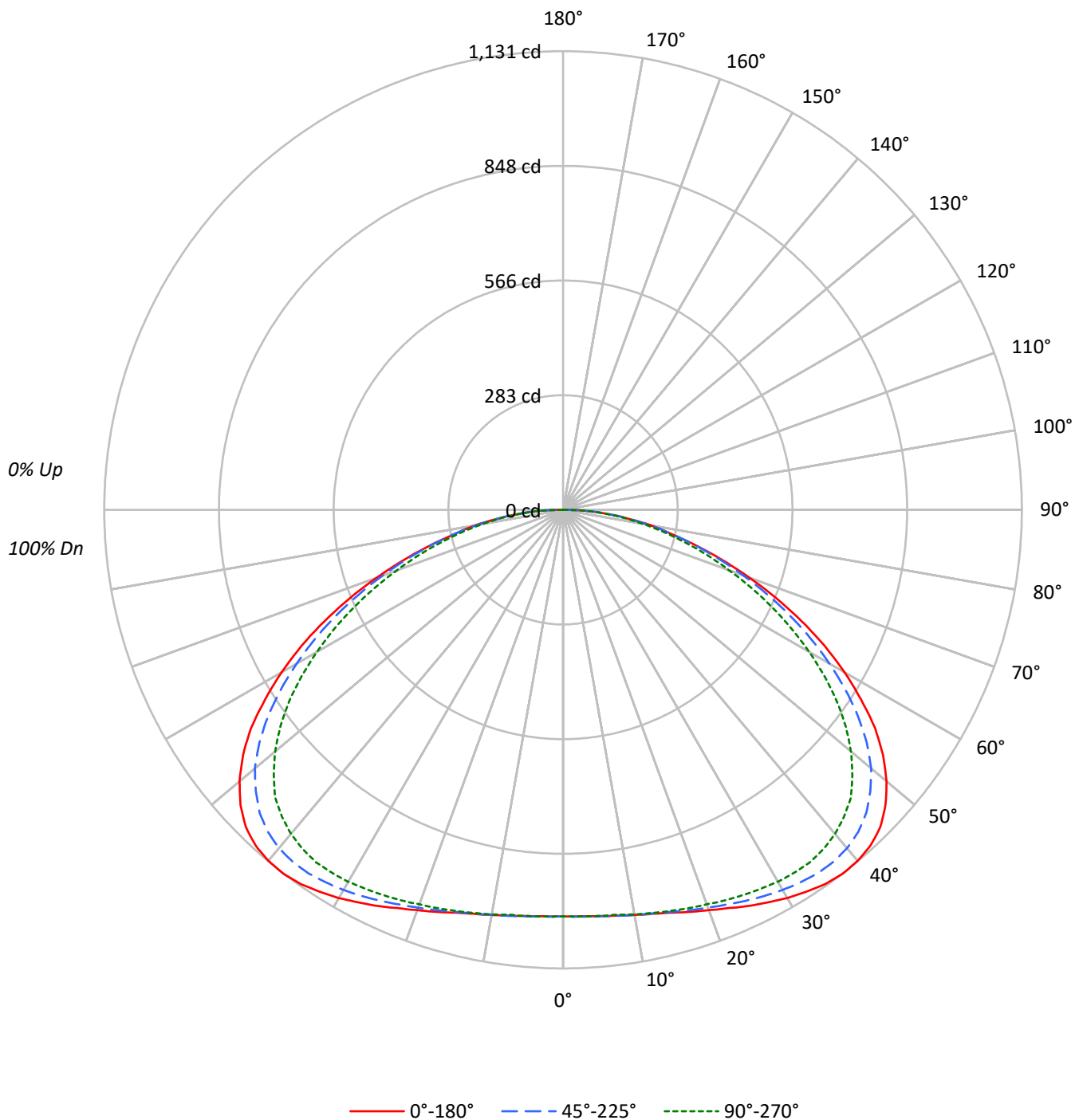
Lumens per Lamp: N/A
Luminaire Lumens: 4240.0 lumens
Efficiency: N/A
Efficacy: 141.8 lumens/watt
Spacing Criteria (0/90/45): 1.69 / 1.6 / 1.72
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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				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	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°	1349	1349	1349
5°	1358	1359	1358
10°	1386	1386	1384
15°	1433	1430	1427
20°	1504	1495	1482
25°	1601	1580	1557
30°	1717	1682	1645
35°	1851	1797	1743
40°	1984	1913	1832
45°	2105	2012	1909
50°	2179	2076	1939
55°	2203	2083	1934
60°	2157	2041	1884
65°	2065	1966	1810
70°	1923	1859	1713
75°	1761	1749	1622
80°	1707	1673	1553
85°	1587	1655	1553

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 55°

Luminance: 2203 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.3	2.3
10°-20°	291.7	6.9
20°-30°	492.6	11.6
30°-40°	685.3	16.2
40°-50°	811.2	19.1
50°-60°	787.0	18.6
60°-70°	606.4	14.3
70°-80°	353.8	8.3
80°-90°	115.6	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°	880.6	20.8
0°-40°	1565.9	36.9
0°-60°	3164.1	74.6
0°-90°	4240.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4240.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1003	1003	1003	1003	1003	
5°	1006	1006	1006	1006	1006	96
15°	1028	1028	1026	1024	1024	293
25°	1078	1074	1064	1053	1048	500
35°	1127	1117	1094	1071	1061	706
45°	1106	1091	1057	1021	1003	849
55°	939	923	888	847	824	834
65°	648	641	617	586	569	641
75°	339	347	336	321	312	363
85°	103	108	107	105	101	115
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1002.7	1002.7	1002.7	1002.7	1002.7
2.5°	1003.4	1004.1	1004.1	1004.1	1004.1
5°	1005.6	1006.4	1006.4	1006.4	1005.6
7.5°	1009.3	1009.3	1010.1	1009.3	1007.1
10°	1014.5	1014.5	1014.5	1013.8	1013.0
12.5°	1020.4	1021.1	1019.7	1018.9	1018.2
15°	1028.5	1028.5	1026.3	1024.1	1024.1
17.5°	1039.6	1038.2	1035.2	1031.5	1030.0
20°	1050.7	1049.2	1044.1	1038.2	1035.2
22.5°	1063.3	1060.3	1053.7	1045.5	1042.6
25°	1078.1	1073.6	1064.0	1052.9	1048.5
27.5°	1091.4	1085.5	1073.6	1061.1	1053.7
30°	1105.4	1098.0	1082.5	1066.3	1058.9
32.5°	1116.5	1109.1	1089.2	1070.7	1061.1
35°	1126.9	1117.3	1094.3	1071.4	1061.1
37.5°	1131.3	1121.0	1094.3	1067.7	1054.4
40°	1129.8	1118.7	1089.2	1058.9	1043.3
42.5°	1122.4	1109.1	1077.3	1043.3	1025.6
45°	1106.2	1091.4	1057.4	1021.1	1003.4
47.5°	1078.1	1063.3	1027.1	988.6	967.2
50°	1041.1	1025.6	991.6	948.7	926.5
52.5°	994.5	979.0	943.5	899.9	878.4
55°	939.1	922.8	888.0	846.6	824.5
57.5°	871.0	859.2	825.2	786.0	764.6
60°	801.5	789.7	758.6	721.7	700.2
62.5°	726.9	717.2	689.1	654.4	635.9
65°	648.5	641.1	617.4	585.6	568.6
67.5°	568.6	565.7	544.2	516.9	502.1
70°	488.8	490.2	472.5	448.1	435.5
72.5°	411.1	416.3	402.2	382.3	373.4
75°	338.7	346.8	336.4	320.9	312.0
77.5°	271.4	282.5	273.6	261.8	254.4
80°	220.3	219.6	215.9	207.0	200.4
82.5°	158.2	161.2	159.0	153.8	150.1
85°	102.8	108.0	107.2	105.0	100.6
87.5°	51.0	56.9	57.7	56.2	54.0
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	15.4	17.2	15.8	17.5	17.8	14.8	16.5	15.1	16.8	17.1
	3H	17.2	18.8	17.6	19.2	19.5	16.6	18.1	16.9	18.5	18.8
	4H	17.9	19.4	18.3	19.8	20.1	17.2	18.7	17.6	19.1	19.5
	6H	18.4	19.8	18.9	20.2	20.6	17.8	19.2	18.2	19.5	19.9
	8H	18.6	20.0	19.1	20.4	20.8	18.0	19.3	18.4	19.7	20.1
	12H	18.8	20.1	19.2	20.4	20.9	18.2	19.4	18.6	19.8	20.2
4H	2H	16.0	17.5	16.4	17.9	18.2	15.5	17.0	15.9	17.3	17.7
	3H	18.1	19.3	18.5	19.7	20.1	17.5	18.8	17.9	19.2	19.6
	4H	18.9	20.0	19.3	20.4	20.9	18.3	19.5	18.8	19.9	20.3
	6H	19.6	20.6	20.0	21.0	21.5	19.0	20.0	19.5	20.5	20.9
	8H	19.8	20.8	20.3	21.2	21.7	19.3	20.2	19.7	20.7	21.1
	12H	20.0	20.9	20.5	21.4	21.8	19.5	20.4	20.0	20.8	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	20.0	20.8	20.5	21.3	21.8	19.5	20.3	20.0	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	22.3	20.2	20.9	20.7	21.3	21.9
12H	4H	19.3	20.1	19.7	20.6	21.0	18.8	19.6	19.3	20.1	20.6
	6H	20.1	20.8	20.6	21.3	21.8	19.7	20.4	20.2	20.8	21.4
	8H	20.5	21.1	21.0	21.6	22.2	20.1	20.7	20.6	21.2	21.7















(END OF REPORT)