

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: P1527139

Luminaire Tested: 24CGTX-65-F125-L840

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1527139
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-65-F125-L840
Description: CGTX with F125 Lens Option

Light Source:
Ballast/Driver: -

Summary

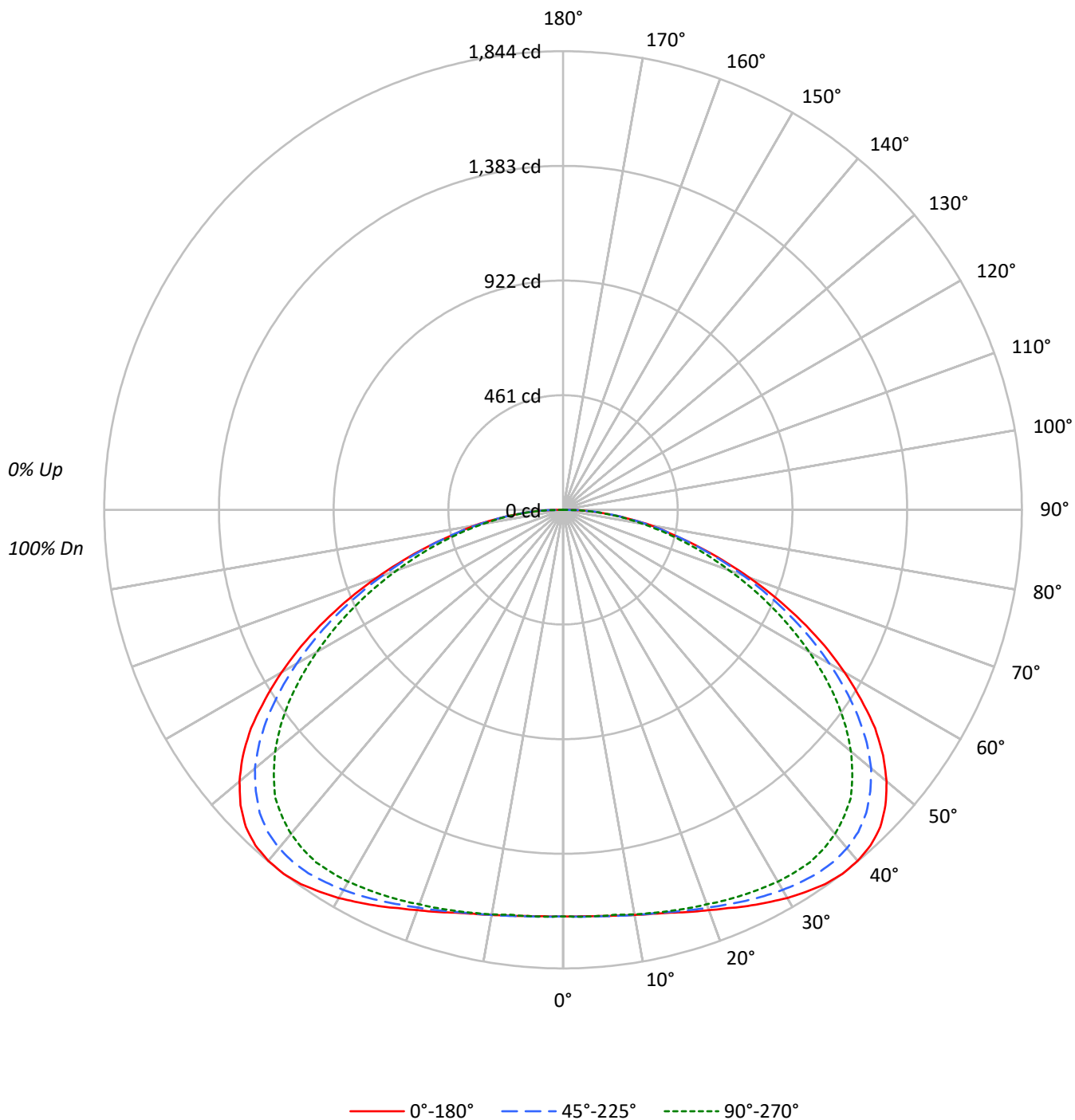
Lumens per Lamp: N/A
Luminaire Lumens: 6913.0 lumens
Efficiency: N/A
Efficacy: 129.5 lumens/watt
Spacing Criteria (0/90/45): 1.69 / 1.6 / 1.72
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 53.4
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: P1527139

CATALOG NUMBER: 24CGTX-65-F125-L840

Luminous Intensity Polar Plot



TEST NUMBER: P1527139

CATALOG NUMBER: 24CGTX-65-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	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°	2200	2200	2200
5°	2214	2216	2214
10°	2260	2260	2256
15°	2336	2331	2326
20°	2453	2437	2417
25°	2609	2575	2538
30°	2800	2742	2682
35°	3018	2931	2842
40°	3235	3119	2988
45°	3432	3280	3113
50°	3553	3384	3162
55°	3592	3396	3153
60°	3517	3328	3072
65°	3366	3205	2952
70°	3135	3031	2793
75°	2871	2851	2645
80°	2784	2727	2531
85°	2587	2699	2532

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 55°

Luminance: 3592 cd/sqm

TEST NUMBER: P1527139

CATALOG NUMBER: 24CGTX-65-F125-L840

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.0	2.3
10°-20°	475.6	6.9
20°-30°	803.2	11.6
30°-40°	1117.3	16.2
40°-50°	1322.6	19.1
50°-60°	1283.2	18.6
60°-70°	988.7	14.3
70°-80°	576.9	8.3
80°-90°	188.5	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°	1435.8	20.8
0°-40°	2553.1	36.9
0°-60°	5158.9	74.6
0°-90°	6913.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6913.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1635	1635	1635	1635	1635	
5°	1640	1641	1641	1641	1640	157
15°	1677	1677	1673	1670	1670	477
25°	1758	1750	1735	1717	1710	815
35°	1837	1822	1784	1747	1730	1151
45°	1804	1779	1724	1665	1636	1385
55°	1531	1505	1448	1380	1344	1359
65°	1057	1045	1007	955	927	1044
75°	552	565	548	523	509	591
85°	168	176	175	171	164	187
90°	0	0	0	0	0	

TEST NUMBER: P1527139

CATALOG NUMBER: 24CGTX-65-F125-L840

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1634.8	1634.8	1634.8	1634.8	1634.8
2.5°	1636.0	1637.2	1637.2	1637.2	1637.2
5°	1639.6	1640.8	1640.8	1640.8	1639.6
7.5°	1645.6	1645.6	1646.8	1645.6	1642.0
10°	1654.1	1654.1	1654.1	1652.8	1651.6
12.5°	1663.7	1664.9	1662.5	1661.3	1660.1
15°	1677.0	1677.0	1673.3	1669.7	1669.7
17.5°	1695.0	1692.6	1687.8	1681.8	1679.4
20°	1713.1	1710.7	1702.3	1692.6	1687.8
22.5°	1733.6	1728.8	1717.9	1704.7	1699.9
25°	1757.7	1750.5	1734.8	1716.7	1709.5
27.5°	1779.4	1769.8	1750.5	1730.0	1717.9
30°	1802.3	1790.3	1765.0	1738.4	1726.4
32.5°	1820.4	1808.4	1775.8	1745.7	1730.0
35°	1837.3	1821.6	1784.3	1746.9	1730.0
37.5°	1844.5	1827.7	1784.3	1740.9	1719.2
40°	1842.1	1824.0	1775.8	1726.4	1701.1
42.5°	1830.1	1808.4	1756.5	1701.1	1672.1
45°	1803.5	1779.4	1724.0	1664.9	1636.0
47.5°	1757.7	1733.6	1674.5	1611.9	1576.9
50°	1697.5	1672.1	1616.7	1546.8	1510.6
52.5°	1621.5	1596.2	1538.3	1467.2	1432.2
55°	1531.1	1504.6	1447.9	1380.4	1344.2
57.5°	1420.2	1400.9	1345.4	1281.5	1246.6
60°	1306.8	1287.6	1236.9	1176.6	1141.7
62.5°	1185.1	1169.4	1123.6	1066.9	1036.8
65°	1057.3	1045.2	1006.7	954.8	927.1
67.5°	927.1	922.3	887.3	842.7	818.6
70°	796.9	799.3	770.4	730.6	710.1
72.5°	670.3	678.7	655.8	623.3	608.8
75°	552.2	565.4	548.5	523.2	508.8
77.5°	442.4	460.5	446.1	426.8	414.7
80°	359.3	358.1	352.0	337.6	326.7
82.5°	258.0	262.8	259.2	250.8	244.7
85°	167.6	176.0	174.8	171.2	164.0
87.5°	83.2	92.8	94.0	91.6	88.0
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1527139

CATALOG NUMBER: 24CGTX-65-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	17.1	18.9	17.5	19.2	19.5	16.5	18.2	16.8	18.5	18.8
	3H	18.9	20.5	19.3	20.9	21.2	18.3	19.8	18.6	20.2	20.5
	4H	19.6	21.1	20.0	21.5	21.8	18.9	20.4	19.3	20.8	21.2
	6H	20.1	21.5	20.6	21.9	22.3	19.5	20.9	19.9	21.2	21.6
	8H	20.3	21.7	20.8	22.1	22.4	19.7	21.0	20.1	21.4	21.8
	12H	20.5	21.8	20.9	22.1	22.6	19.9	21.1	20.3	21.5	21.9
4H	2H	17.7	19.2	18.1	19.6	19.9	17.2	18.7	17.6	19.0	19.4
	3H	19.8	21.0	20.2	21.4	21.8	19.2	20.5	19.6	20.9	21.3
	4H	20.6	21.7	21.0	22.1	22.6	20.0	21.2	20.5	21.6	22.0
	6H	21.3	22.3	21.7	22.7	23.2	20.7	21.7	21.2	22.2	22.6
	8H	21.5	22.5	22.0	22.9	23.4	21.0	21.9	21.4	22.4	22.8
	12H	21.7	22.6	22.2	23.1	23.5	21.2	22.1	21.7	22.5	23.0
8H	4H	20.9	21.9	21.4	22.3	22.8	20.4	21.4	20.9	21.8	22.3
	6H	21.7	22.5	22.2	23.0	23.5	21.2	22.0	21.7	22.5	23.0
	8H	22.1	22.8	22.6	23.3	23.8	21.6	22.3	22.1	22.8	23.3
	12H	22.4	23.0	22.9	23.5	24.0	21.9	22.5	22.4	23.0	23.6
12H	4H	21.0	21.8	21.4	22.3	22.7	20.5	21.3	20.9	21.8	22.3
	6H	21.8	22.5	22.3	23.0	23.5	21.4	22.1	21.9	22.5	23.1
	8H	22.2	22.8	22.7	23.3	23.9	21.8	22.4	22.3	22.9	23.4













(END OF REPORT)