

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: P1527140

Luminaire Tested: 24CGTX-65-F125-L850

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1527140
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-L850
Description: CGTX with F125 Lens Option

Light Source:
Ballast/Driver: -

Summary

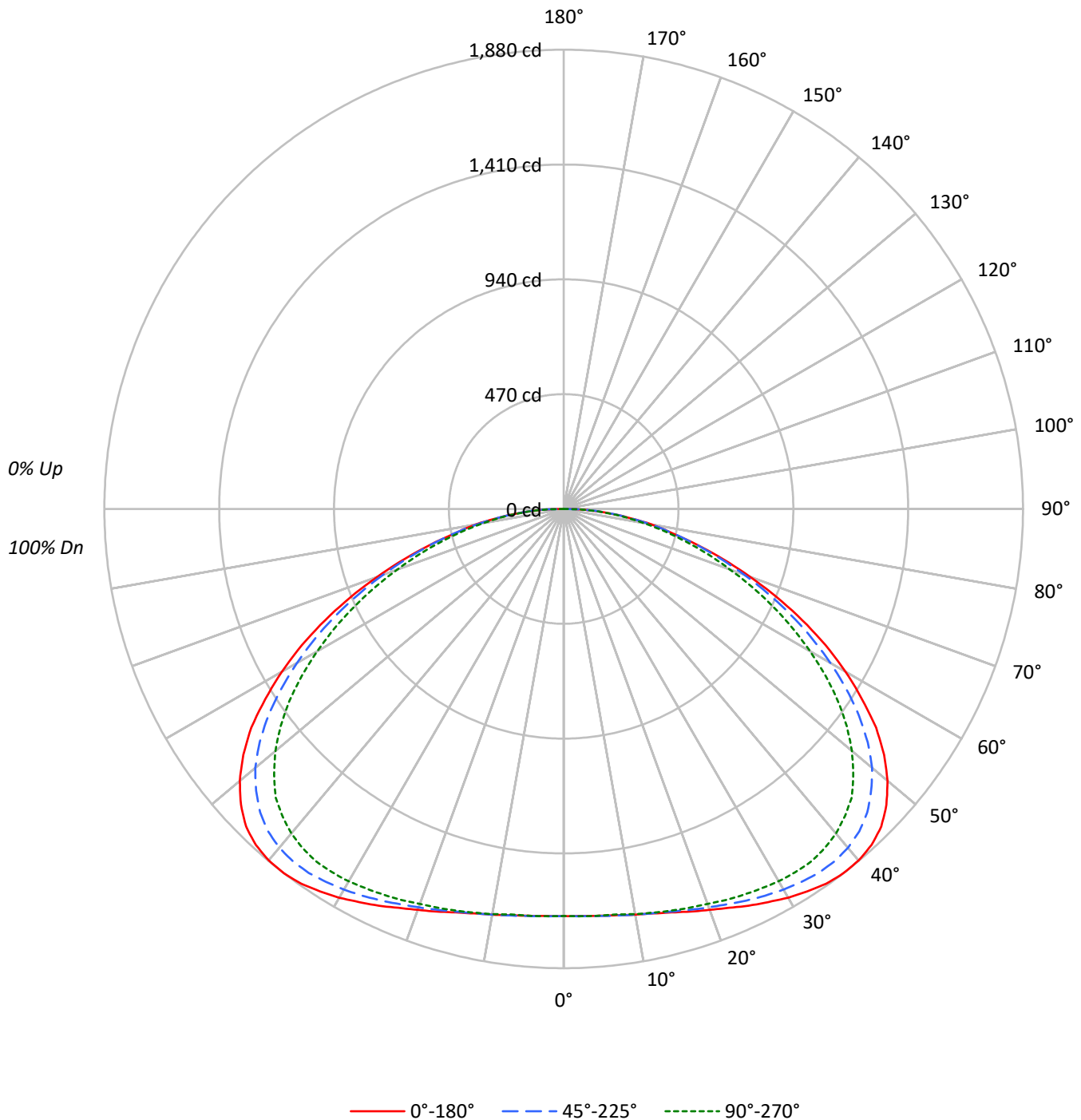
Lumens per Lamp: N/A
Luminaire Lumens: 7047.0 lumens
Efficiency: N/A
Efficacy: 132.0 lumens/watt
Spacing Criteria (0/90/45): 1.69 / 1.6 / 1.72
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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: P1527140

CATALOG NUMBER: 24CGTX-65-F125-L850

Luminous Intensity Polar Plot





TEST NUMBER: P1527140

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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°	2242	2242	2242
5°	2257	2259	2257
10°	2304	2304	2300
15°	2381	2376	2371
20°	2500	2485	2463
25°	2660	2625	2587
30°	2854	2795	2734
35°	3076	2987	2897
40°	3298	3179	3046
45°	3498	3344	3173
50°	3622	3450	3223
55°	3661	3462	3214
60°	3585	3393	3132
65°	3431	3267	3009
70°	3196	3089	2847
75°	2926	2907	2696
80°	2837	2781	2580
85°	2637	2751	2580

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 55°

Luminance: 3661 cd/sqm

TEST NUMBER: P1527140

CATALOG NUMBER: 24CGTX-65-F125-L850

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.0	2.3
10°-20°	484.8	6.9
20°-30°	818.8	11.6
30°-40°	1139.0	16.2
40°-50°	1348.3	19.1
50°-60°	1308.1	18.6
60°-70°	1007.9	14.3
70°-80°	588.1	8.3
80°-90°	192.2	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°	1463.6	20.8
0°-40°	2602.6	36.9
0°-60°	5258.9	74.6
0°-90°	7047.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7047.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1666	1666	1666	1666	1666	
5°	1671	1673	1673	1673	1671	160
15°	1710	1710	1706	1702	1702	486
25°	1792	1784	1768	1750	1743	830
35°	1873	1857	1819	1781	1764	1173
45°	1838	1814	1757	1697	1668	1412
55°	1561	1534	1476	1407	1370	1386
65°	1078	1066	1026	973	945	1065
75°	563	576	559	533	519	603
85°	171	179	178	174	167	191
90°	0	0	0	0	0	

TEST NUMBER: P1527140

CATALOG NUMBER: 24CGTX-65-F125-L850

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1666.4	1666.4	1666.4	1666.4	1666.4
2.5°	1667.7	1668.9	1668.9	1668.9	1668.9
5°	1671.4	1672.6	1672.6	1672.6	1671.4
7.5°	1677.5	1677.5	1678.7	1677.5	1673.8
10°	1686.1	1686.1	1686.1	1684.9	1683.7
12.5°	1695.9	1697.2	1694.7	1693.5	1692.3
15°	1709.5	1709.5	1705.8	1702.1	1702.1
17.5°	1727.9	1725.4	1720.5	1714.4	1711.9
20°	1746.3	1743.9	1735.3	1725.4	1720.5
22.5°	1767.2	1762.3	1751.2	1737.7	1732.8
25°	1791.8	1784.4	1768.5	1750.0	1742.6
27.5°	1813.9	1804.1	1784.4	1763.5	1751.2
30°	1837.3	1825.0	1799.2	1772.1	1759.8
32.5°	1855.7	1843.4	1810.2	1779.5	1763.5
35°	1872.9	1856.9	1818.8	1780.7	1763.5
37.5°	1880.3	1863.1	1818.8	1774.6	1752.5
40°	1877.8	1859.4	1810.2	1759.8	1734.0
42.5°	1865.5	1843.4	1790.6	1734.0	1704.5
45°	1838.5	1813.9	1757.4	1697.2	1667.7
47.5°	1791.8	1767.2	1707.0	1643.1	1607.5
50°	1730.4	1704.5	1648.0	1576.7	1539.9
52.5°	1652.9	1627.1	1568.1	1495.6	1460.0
55°	1560.8	1533.7	1476.0	1407.1	1370.3
57.5°	1447.7	1428.0	1371.5	1306.4	1270.7
60°	1332.2	1312.5	1260.9	1199.5	1163.8
62.5°	1208.1	1192.1	1145.4	1087.6	1056.9
65°	1077.8	1065.5	1026.2	973.3	945.1
67.5°	945.1	940.1	904.5	859.0	834.5
70°	812.3	814.8	785.3	744.7	723.8
72.5°	683.3	691.9	668.5	635.4	620.6
75°	562.9	576.4	559.2	533.4	518.6
77.5°	451.0	469.5	454.7	435.0	422.8
80°	366.2	365.0	358.9	344.1	333.0
82.5°	263.0	267.9	264.2	255.6	249.5
85°	170.8	179.4	178.2	174.5	167.1
87.5°	84.8	94.6	95.9	93.4	89.7
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1527140

CATALOG NUMBER: 24CGTX-65-F125-L850

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	17.2	18.9	17.6	19.2	19.6	16.5	18.3	16.9	18.6	18.9
	3H	19.0	20.6	19.4	20.9	21.3	18.3	19.9	18.7	20.2	20.6
	4H	19.7	21.2	20.1	21.5	21.9	19.0	20.5	19.4	20.8	21.2
	6H	20.2	21.6	20.6	22.0	22.3	19.6	20.9	20.0	21.3	21.7
	8H	20.4	21.7	20.8	22.1	22.5	19.8	21.1	20.2	21.5	21.9
	12H	20.5	21.8	21.0	22.2	22.6	19.9	21.2	20.4	21.6	22.0
4H	2H	17.8	19.3	18.2	19.6	20.0	17.3	18.8	17.7	19.1	19.5
	3H	19.8	21.1	20.3	21.5	21.9	19.3	20.5	19.7	20.9	21.3
	4H	20.7	21.8	21.1	22.2	22.6	20.1	21.2	20.5	21.6	22.1
	6H	21.3	22.3	21.8	22.8	23.2	20.8	21.8	21.2	22.2	22.7
	8H	21.6	22.5	22.0	23.0	23.4	21.0	22.0	21.5	22.4	22.9
	12H	21.8	22.6	22.3	23.1	23.6	21.3	22.1	21.7	22.6	23.1
8H	4H	21.0	21.9	21.4	22.4	22.8	20.5	21.4	20.9	21.9	22.3
	6H	21.8	22.6	22.3	23.1	23.5	21.3	22.1	21.8	22.6	23.1
	8H	22.1	22.8	22.6	23.4	23.8	21.7	22.4	22.2	22.9	23.4
	12H	22.4	23.1	22.9	23.6	24.1	22.0	22.6	22.5	23.1	23.7
12H	4H	21.0	21.9	21.5	22.3	22.8	20.5	21.4	21.0	21.9	22.3
	6H	21.9	22.6	22.4	23.1	23.6	21.4	22.1	21.9	22.6	23.1
	8H	22.3	22.9	22.8	23.4	24.0	21.8	22.5	22.3	22.9	23.5















(END OF REPORT)