

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: P1527144

Luminaire Tested: 24CGTX-65HE-F125-L850

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1527144
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-65HE-F125-L850
Description: CGTX with F125 Lens Option

Light Source:
Ballast/Driver: -

Summary

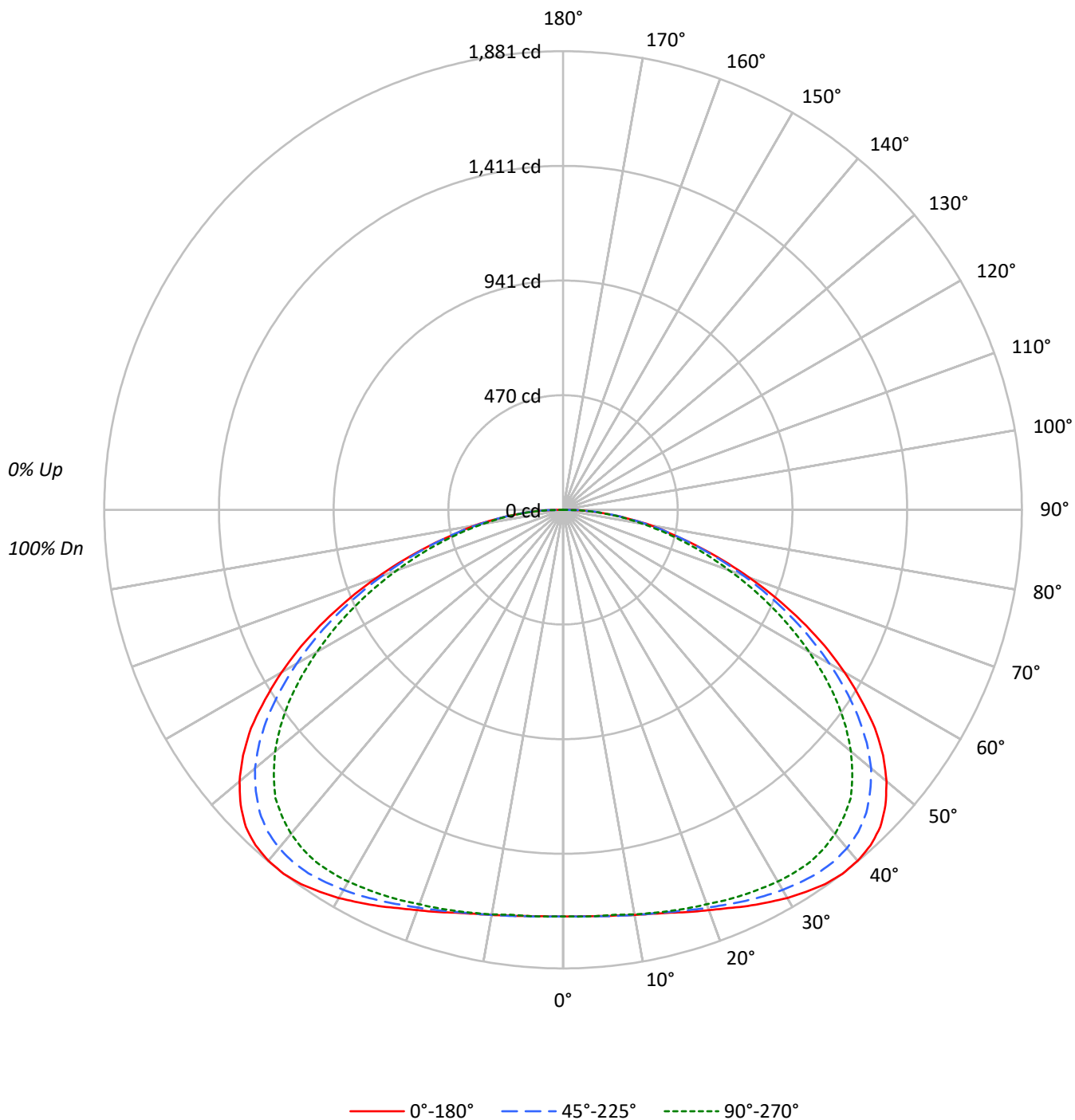
Lumens per Lamp: N/A
Luminaire Lumens: 7051.0 lumens
Efficiency: N/A
Efficacy: 141.3 lumens/watt
Spacing Criteria (0/90/45): 1.69 / 1.6 / 1.72
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 49.9
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

TEST NUMBER: P1527144

CATALOG NUMBER: 24CGTX-65HE-F125-L850

Luminous Intensity Polar Plot



TEST NUMBER: P1527144

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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	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°	2243	2243	2243
5°	2259	2260	2259
10°	2305	2305	2302
15°	2383	2377	2372
20°	2502	2486	2465
25°	2662	2627	2589
30°	2856	2797	2736
35°	3078	2989	2898
40°	3300	3181	3047
45°	3500	3346	3175
50°	3624	3452	3225
55°	3663	3464	3216
60°	3587	3395	3134
65°	3433	3269	3011
70°	3198	3091	2849
75°	2928	2909	2698
80°	2839	2782	2582
85°	2638	2753	2581

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 55°

Luminance: 3663 cd/sqm

TEST NUMBER: P1527144

CATALOG NUMBER: 24CGTX-65HE-F125-L850

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.1	2.3
10°-20°	485.1	6.9
20°-30°	819.2	11.6
30°-40°	1139.6	16.2
40°-50°	1349.0	19.1
50°-60°	1308.8	18.6
60°-70°	1008.4	14.3
70°-80°	588.4	8.3
80°-90°	192.3	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°	1464.4	20.8
0°-40°	2604.0	36.9
0°-60°	5261.9	74.6
0°-90°	7051.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7051.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1667	1667	1667	1667	1667	
5°	1672	1674	1674	1674	1672	160
15°	1710	1710	1707	1703	1703	487
25°	1793	1785	1770	1751	1744	831
35°	1874	1858	1820	1782	1764	1174
45°	1840	1815	1758	1698	1669	1413
55°	1562	1535	1477	1408	1371	1386
65°	1078	1066	1027	974	946	1065
75°	563	577	560	534	519	603
85°	171	180	178	175	167	191
90°	0	0	0	0	0	

TEST NUMBER: P1527144

CATALOG NUMBER: 24CGTX-65HE-F125-L850

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1667.4	1667.4	1667.4	1667.4	1667.4
2.5°	1668.6	1669.9	1669.9	1669.9	1669.9
5°	1672.3	1673.5	1673.5	1673.5	1672.3
7.5°	1678.5	1678.5	1679.7	1678.5	1674.8
10°	1687.1	1687.1	1687.1	1685.8	1684.6
12.5°	1696.9	1698.1	1695.7	1694.4	1693.2
15°	1710.4	1710.4	1706.7	1703.1	1703.1
17.5°	1728.9	1726.4	1721.5	1715.4	1712.9
20°	1747.3	1744.9	1736.3	1726.4	1721.5
22.5°	1768.2	1763.3	1752.2	1738.7	1733.8
25°	1792.8	1785.4	1769.5	1751.0	1743.6
27.5°	1815.0	1805.1	1785.4	1764.5	1752.2
30°	1838.3	1826.0	1800.2	1773.1	1760.8
32.5°	1856.8	1844.5	1811.3	1780.5	1764.5
35°	1874.0	1858.0	1819.9	1781.8	1764.5
37.5°	1881.4	1864.1	1819.9	1775.6	1753.5
40°	1878.9	1860.4	1811.3	1760.8	1735.0
42.5°	1866.6	1844.5	1791.6	1735.0	1705.5
45°	1839.5	1815.0	1758.4	1698.1	1668.6
47.5°	1792.8	1768.2	1708.0	1644.0	1608.4
50°	1731.3	1705.5	1649.0	1577.6	1540.7
52.5°	1653.9	1628.0	1569.0	1496.5	1460.8
55°	1561.6	1534.6	1476.8	1407.9	1371.1
57.5°	1448.5	1428.8	1372.3	1307.1	1271.5
60°	1332.9	1313.3	1261.6	1200.1	1164.5
62.5°	1208.7	1192.8	1146.0	1088.2	1057.5
65°	1078.4	1066.1	1026.8	973.9	945.6
67.5°	945.6	940.7	905.0	859.5	834.9
70°	812.8	815.3	785.7	745.2	724.3
72.5°	683.7	692.3	668.9	635.7	621.0
75°	563.2	576.7	559.5	533.7	518.9
77.5°	451.3	469.7	455.0	435.3	423.0
80°	366.4	365.2	359.1	344.3	333.2
82.5°	263.1	268.1	264.4	255.8	249.6
85°	170.9	179.5	178.3	174.6	167.2
87.5°	84.8	94.7	95.9	93.5	89.8
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1527144

CATALOG NUMBER: 24CGTX-65HE-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	22.4	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	20.6	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	22.9	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)