

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: P1527137

Luminaire Tested: 24CGTX-65-F125-L830

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1527137
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-L830
Description: CGTX with F125 Lens Option

Light Source:
Ballast/Driver: -

Summary

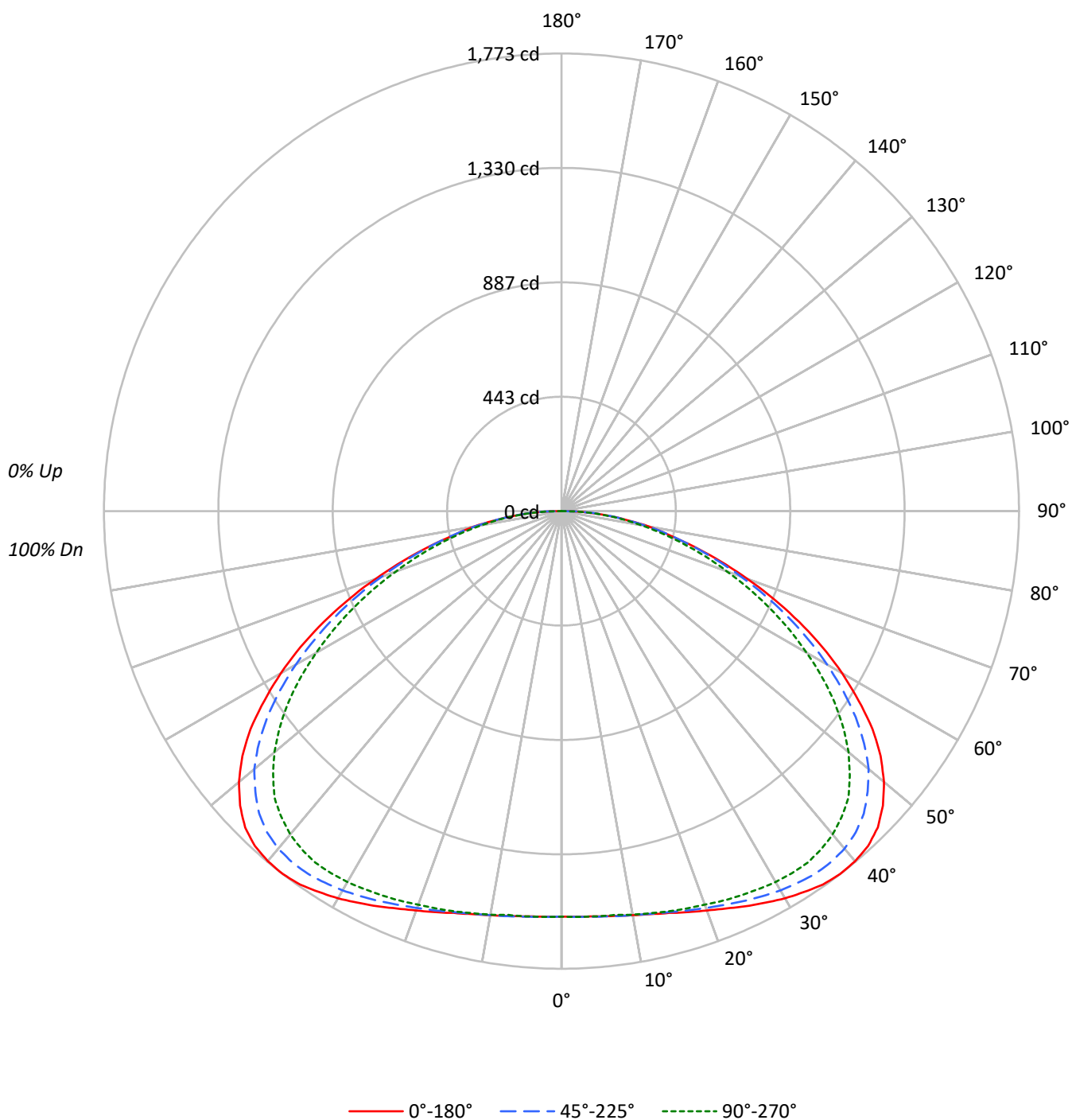
Lumens per Lamp: N/A
Luminaire Lumens: 6644.0 lumens
Efficiency: N/A
Efficacy: 124.4 lumens/watt
Spacing Criteria (0/90/45): 1.69 / 1.6 / 1.72
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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: P1527137

CATALOG NUMBER: 24CGTX-65-F125-L830

Luminous Intensity Polar Plot



TEST NUMBER: P1527137

CATALOG NUMBER: 24CGTX-65-F125-L830

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
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°	2114	2114	2114
5°	2128	2130	2128
10°	2172	2172	2169
15°	2245	2240	2235
20°	2358	2342	2323
25°	2508	2475	2439
30°	2691	2635	2578
35°	2900	2817	2731
40°	3110	2998	2872
45°	3298	3153	2992
50°	3415	3252	3039
55°	3452	3264	3031
60°	3380	3199	2953
65°	3235	3080	2837
70°	3013	2913	2685
75°	2759	2741	2542
80°	2676	2621	2433
85°	2487	2594	2433

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 55°
Luminance: 3452 cd/sqm

TEST NUMBER: P1527137

CATALOG NUMBER: 24CGTX-65-F125-L830

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.9	2.3
10°-20°	457.1	6.9
20°-30°	772.0	11.6
30°-40°	1073.8	16.2
40°-50°	1271.2	19.1
50°-60°	1233.3	18.6
60°-70°	950.2	14.3
70°-80°	554.4	8.3
80°-90°	181.2	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°	1379.9	20.8
0°-40°	2453.7	36.9
0°-60°	4958.2	74.6
0°-90°	6644.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6644.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1571	1571	1571	1571	1571	
5°	1576	1577	1577	1577	1576	151
15°	1612	1612	1608	1605	1605	458
25°	1689	1682	1667	1650	1643	783
35°	1766	1751	1715	1679	1663	1106
45°	1733	1710	1657	1600	1572	1331
55°	1472	1446	1392	1327	1292	1306
65°	1016	1005	968	918	891	1004
75°	531	543	527	503	489	568
85°	161	169	168	164	158	180
90°	0	0	0	0	0	

TEST NUMBER: P1527137

CATALOG NUMBER: 24CGTX-65-F125-L830

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1571.1	1571.1	1571.1	1571.1	1571.1
2.5°	1572.3	1573.5	1573.5	1573.5	1573.5
5°	1575.8	1576.9	1576.9	1576.9	1575.8
7.5°	1581.6	1581.6	1582.7	1581.6	1578.1
10°	1589.7	1589.7	1589.7	1588.5	1587.4
12.5°	1599.0	1600.1	1597.8	1596.6	1595.5
15°	1611.7	1611.7	1608.2	1604.8	1604.8
17.5°	1629.1	1626.8	1622.1	1616.3	1614.0
20°	1646.5	1644.1	1636.0	1626.8	1622.1
22.5°	1666.2	1661.5	1651.1	1638.4	1633.7
25°	1689.3	1682.4	1667.3	1649.9	1643.0
27.5°	1710.2	1700.9	1682.4	1662.7	1651.1
30°	1732.2	1720.6	1696.3	1670.8	1659.2
32.5°	1749.6	1738.0	1706.7	1677.7	1662.7
35°	1765.8	1750.7	1714.8	1678.9	1662.7
37.5°	1772.8	1756.5	1714.8	1673.1	1652.3
40°	1770.4	1753.1	1706.7	1659.2	1634.9
42.5°	1758.9	1738.0	1688.2	1634.9	1607.1
45°	1733.4	1710.2	1656.9	1600.1	1572.3
47.5°	1689.3	1666.2	1609.4	1549.1	1515.5
50°	1631.4	1607.1	1553.8	1486.6	1451.8
52.5°	1558.4	1534.1	1478.5	1410.1	1376.5
55°	1471.5	1446.0	1391.6	1326.7	1291.9
57.5°	1364.9	1346.4	1293.1	1231.7	1198.1
60°	1256.0	1237.5	1188.8	1130.9	1097.3
62.5°	1139.0	1123.9	1079.9	1025.4	996.5
65°	1016.1	1004.6	967.5	917.7	891.0
67.5°	891.0	886.4	852.8	809.9	786.7
70°	765.9	768.2	740.4	702.2	682.5
72.5°	644.2	652.3	630.3	599.0	585.1
75°	530.7	543.4	527.2	502.9	489.0
77.5°	425.2	442.6	428.7	410.2	398.6
80°	345.3	344.1	338.3	324.4	314.0
82.5°	248.0	252.6	249.1	241.0	235.2
85°	161.1	169.2	168.0	164.5	157.6
87.5°	79.9	89.2	90.4	88.1	84.6
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1527137

CATALOG NUMBER: 24CGTX-65-F125-L830

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	17.0	18.7	17.4	19.0	19.4	16.3	18.1	16.7	18.4	18.7
	3H	18.8	20.4	19.2	20.7	21.1	18.1	19.7	18.5	20.0	20.4
	4H	19.5	21.0	19.9	21.3	21.7	18.8	20.3	19.2	20.6	21.0
	6H	20.0	21.4	20.4	21.8	22.1	19.4	20.7	19.8	21.1	21.5
	8H	20.2	21.5	20.6	21.9	22.3	19.6	20.9	20.0	21.3	21.7
	12H	20.3	21.6	20.8	22.0	22.4	19.7	21.0	20.2	21.4	21.8
4H	2H	17.6	19.1	18.0	19.4	19.8	17.1	18.6	17.5	18.9	19.3
	3H	19.6	20.9	20.0	21.3	21.7	19.1	20.3	19.5	20.7	21.1
	4H	20.5	21.6	20.9	22.0	22.4	19.9	21.0	20.3	21.4	21.9
	6H	21.1	22.1	21.6	22.6	23.0	20.6	21.6	21.0	22.0	22.5
	8H	21.4	22.3	21.8	22.8	23.2	20.8	21.8	21.3	22.2	22.7
	12H	21.6	22.4	22.1	22.9	23.4	21.1	21.9	21.5	22.4	22.9
8H	4H	20.8	21.7	21.2	22.2	22.6	20.3	21.2	20.7	21.7	22.1
	6H	21.6	22.4	22.1	22.9	23.3	21.1	21.9	21.6	22.4	22.9
	8H	21.9	22.6	22.4	23.1	23.6	21.5	22.2	22.0	22.7	23.2
	12H	22.2	22.9	22.7	23.4	23.9	21.8	22.4	22.3	22.9	23.5
12H	4H	20.8	21.7	21.3	22.1	22.6	20.3	21.2	20.8	21.7	22.1
	6H	21.7	22.4	22.2	22.8	23.4	21.2	21.9	21.7	22.4	22.9
	8H	22.1	22.7	22.6	23.2	23.7	21.6	22.3	22.1	22.7	23.3













(END OF REPORT)