

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: P1527141

Luminaire Tested: 24CGTX-65HE-F125-L830

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1527141
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-L830
Description: CGTX with F125 Lens Option

Light Source:
Ballast/Driver: -

Summary

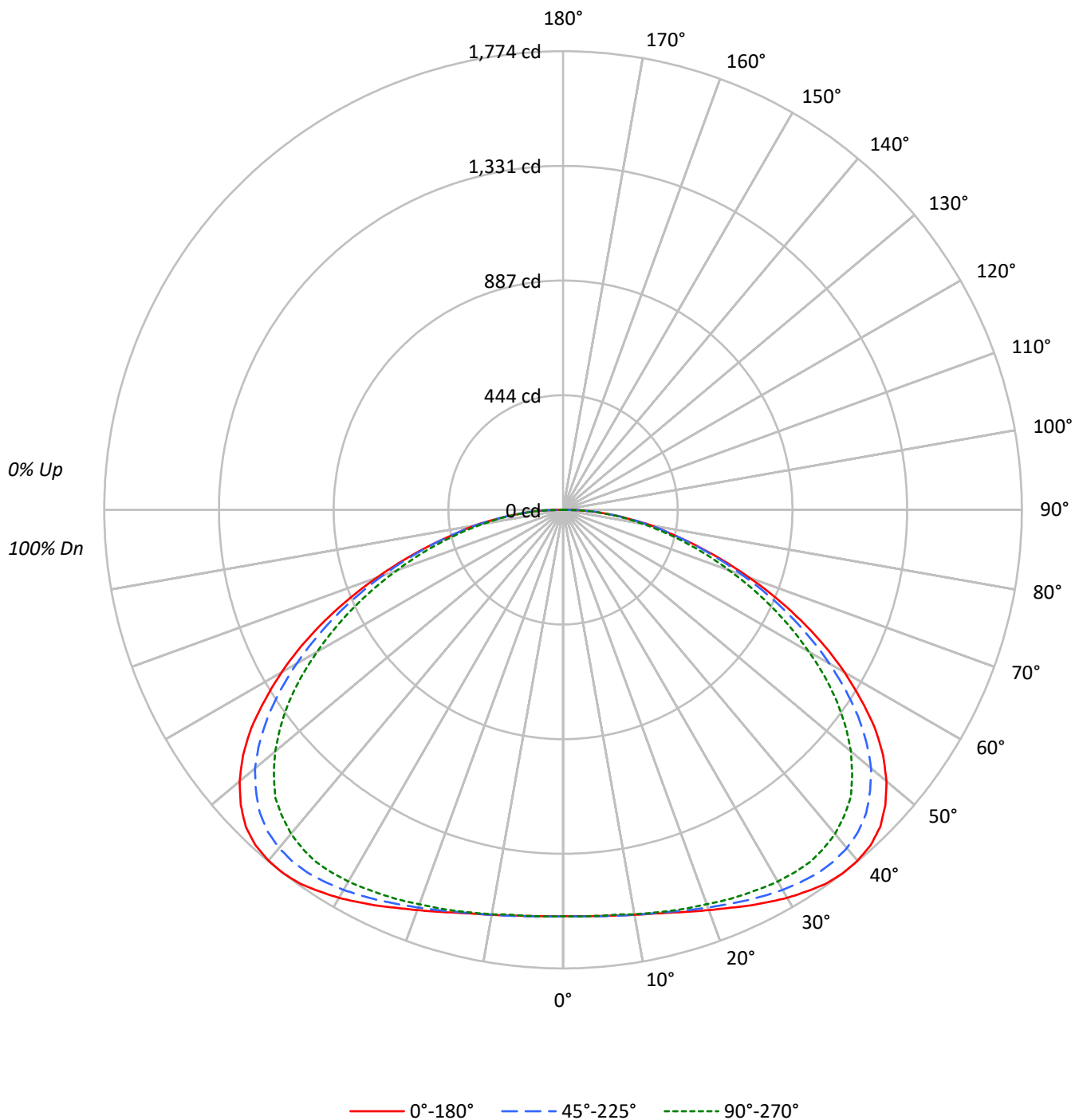
Lumens per Lamp: N/A
Luminaire Lumens: 6648.0 lumens
Efficiency: N/A
Efficacy: 133.2 lumens/watt
Spacing Criteria (0/90/45): 1.69 / 1.6 / 1.72
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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: P1527141

CATALOG NUMBER: 24CGTX-65HE-F125-L830

Luminous Intensity Polar Plot



TEST NUMBER: P1527141

CATALOG NUMBER: 24CGTX-65HE-F125-L830

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		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°	2115	2115	2115
5°	2130	2131	2130
10°	2173	2173	2170
15°	2246	2242	2237
20°	2359	2344	2324
25°	2509	2477	2441
30°	2693	2637	2579
35°	2902	2818	2733
40°	3111	2999	2873
45°	3300	3155	2994
50°	3417	3254	3041
55°	3454	3266	3032
60°	3382	3201	2954
65°	3237	3082	2838
70°	3015	2914	2686
75°	2760	2742	2544
80°	2677	2623	2435
85°	2489	2595	2435

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 55°

Luminance: 3454 cd/sqm

TEST NUMBER: P1527141

CATALOG NUMBER: 24CGTX-65HE-F125-L830

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.0	2.3
10°-20°	457.3	6.9
20°-30°	772.4	11.6
30°-40°	1074.5	16.2
40°-50°	1271.9	19.1
50°-60°	1234.0	18.6
60°-70°	950.8	14.3
70°-80°	554.8	8.3
80°-90°	181.3	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°	1380.7	20.8
0°-40°	2455.2	36.9
0°-60°	4961.1	74.6
0°-90°	6648.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6648.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1572	1572	1572	1572	1572	
5°	1577	1578	1578	1578	1577	151
15°	1613	1613	1609	1606	1606	459
25°	1690	1683	1668	1651	1644	783
35°	1767	1752	1716	1680	1664	1107
45°	1734	1711	1658	1601	1573	1332
55°	1472	1447	1392	1328	1293	1307
65°	1017	1005	968	918	892	1004
75°	531	544	528	503	489	569
85°	161	169	168	165	158	180
90°	0	0	0	0	0	

TEST NUMBER: P1527141

CATALOG NUMBER: 24CGTX-65HE-F125-L830

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1572.1	1572.1	1572.1	1572.1	1572.1
2.5°	1573.3	1574.4	1574.4	1574.4	1574.4
5°	1576.7	1577.9	1577.9	1577.9	1576.7
7.5°	1582.5	1582.5	1583.7	1582.5	1579.1
10°	1590.6	1590.6	1590.6	1589.5	1588.3
12.5°	1599.9	1601.1	1598.8	1597.6	1596.4
15°	1612.7	1612.7	1609.2	1605.7	1605.7
17.5°	1630.1	1627.7	1623.1	1617.3	1615.0
20°	1647.5	1645.1	1637.0	1627.7	1623.1
22.5°	1667.2	1662.5	1652.1	1639.3	1634.7
25°	1690.3	1683.4	1668.3	1650.9	1644.0
27.5°	1711.2	1701.9	1683.4	1663.7	1652.1
30°	1733.2	1721.7	1697.3	1671.8	1660.2
32.5°	1750.6	1739.0	1707.7	1678.8	1663.7
35°	1766.9	1751.8	1715.9	1679.9	1663.7
37.5°	1773.8	1757.6	1715.9	1674.1	1653.3
40°	1771.5	1754.1	1707.7	1660.2	1635.9
42.5°	1759.9	1739.0	1689.2	1635.9	1608.0
45°	1734.4	1711.2	1657.9	1601.1	1573.3
47.5°	1690.3	1667.2	1610.4	1550.1	1516.4
50°	1632.4	1608.0	1554.7	1487.5	1452.7
52.5°	1559.3	1535.0	1479.3	1410.9	1377.3
55°	1472.4	1446.9	1392.4	1327.5	1292.7
57.5°	1365.7	1347.2	1293.8	1232.4	1198.8
60°	1256.7	1238.2	1189.5	1131.5	1097.9
62.5°	1139.7	1124.6	1080.5	1026.0	997.1
65°	1016.8	1005.2	968.1	918.2	891.5
67.5°	891.5	886.9	853.3	810.4	787.2
70°	766.3	768.7	740.8	702.6	682.9
72.5°	644.6	652.7	630.7	599.4	585.5
75°	531.0	543.7	527.5	503.2	489.3
77.5°	425.5	442.9	429.0	410.4	398.8
80°	345.5	344.3	338.5	324.6	314.2
82.5°	248.1	252.7	249.3	241.1	235.4
85°	161.2	169.3	168.1	164.6	157.7
87.5°	80.0	89.3	90.4	88.1	84.6
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1527141

CATALOG NUMBER: 24CGTX-65HE-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)