

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: P1527143

Luminaire Tested: 24CGTX-65HE-F125-L840

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1527143
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-L840
Description: CGTX with F125 Lens Option

Light Source:
Ballast/Driver: -

Summary

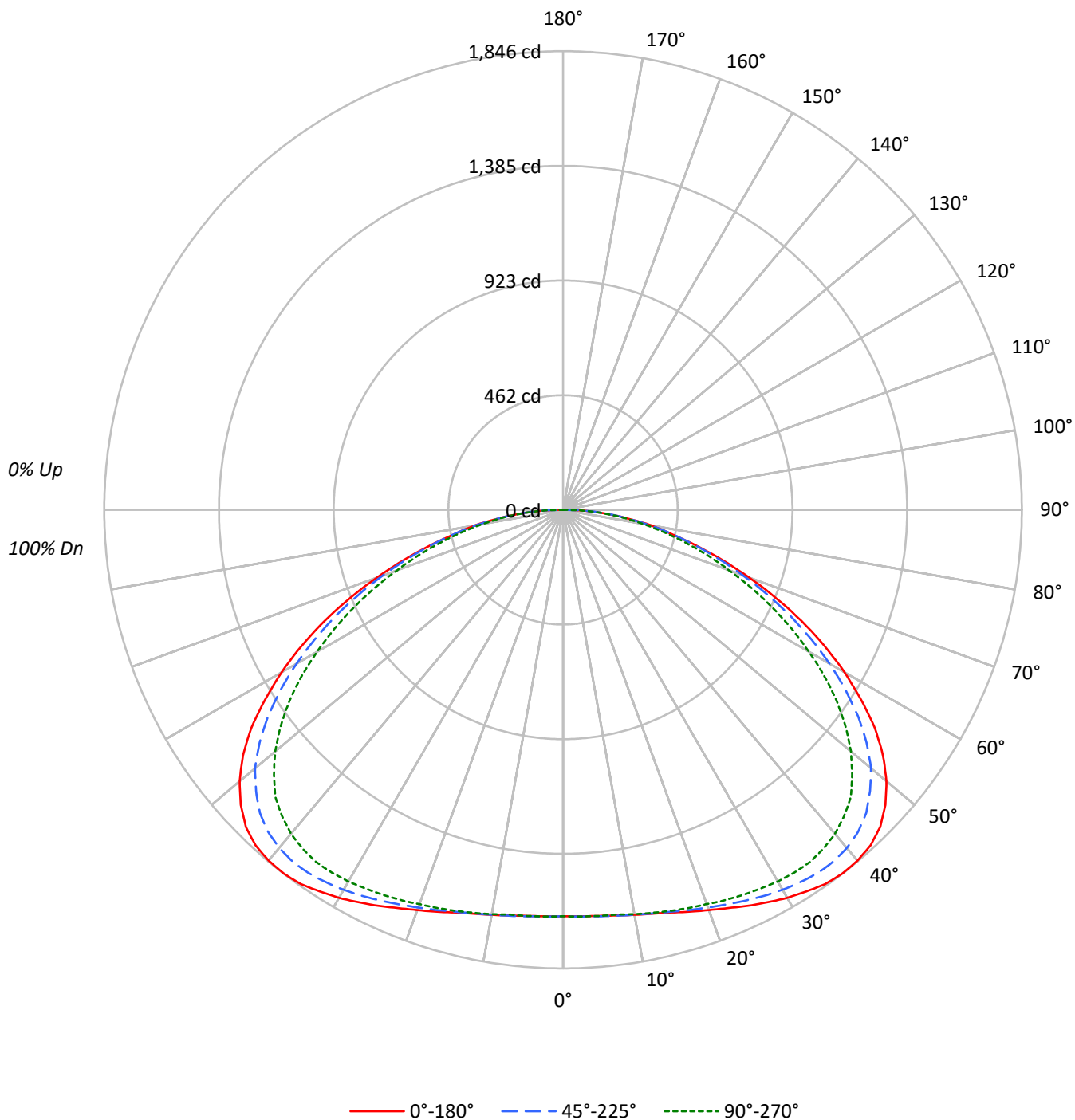
Lumens per Lamp: N/A
Luminaire Lumens: 6917.0 lumens
Efficiency: N/A
Efficacy: 138.6 lumens/watt
Spacing Criteria (0/90/45): 1.69 / 1.6 / 1.72
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

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Luminous Intensity Polar Plot



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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°	2201	2201	2201
5°	2216	2217	2216
10°	2261	2261	2258
15°	2337	2332	2327
20°	2454	2439	2418
25°	2611	2577	2539
30°	2802	2744	2684
35°	3020	2932	2843
40°	3237	3121	2990
45°	3434	3282	3115
50°	3555	3386	3164
55°	3594	3398	3155
60°	3519	3330	3074
65°	3368	3207	2953
70°	3137	3032	2795
75°	2872	2853	2646
80°	2786	2729	2533
85°	2589	2700	2533

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 55°

Luminance: 3594 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.1	2.3
10°-20°	475.8	6.9
20°-30°	803.7	11.6
30°-40°	1118.0	16.2
40°-50°	1323.4	19.1
50°-60°	1283.9	18.6
60°-70°	989.3	14.3
70°-80°	577.2	8.3
80°-90°	188.7	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°	1436.6	20.8
0°-40°	2554.6	36.9
0°-60°	5161.9	74.6
0°-90°	6917.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6917.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1636	1636	1636	1636	1636	
5°	1640	1642	1642	1642	1640	157
15°	1678	1678	1674	1671	1671	477
25°	1759	1752	1736	1718	1710	815
35°	1838	1823	1785	1748	1731	1152
45°	1805	1780	1725	1666	1637	1386
55°	1532	1505	1449	1381	1345	1360
65°	1058	1046	1007	955	928	1045
75°	552	566	549	524	509	592
85°	168	176	175	171	164	187
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1635.7	1635.7	1635.7	1635.7	1635.7
2.5°	1636.9	1638.1	1638.1	1638.1	1638.1
5°	1640.5	1641.7	1641.7	1641.7	1640.5
7.5°	1646.6	1646.6	1647.8	1646.6	1642.9
10°	1655.0	1655.0	1655.0	1653.8	1652.6
12.5°	1664.7	1665.9	1663.5	1662.2	1661.0
15°	1677.9	1677.9	1674.3	1670.7	1670.7
17.5°	1696.0	1693.6	1688.8	1682.8	1680.3
20°	1714.1	1711.7	1703.3	1693.6	1688.8
22.5°	1734.6	1729.8	1718.9	1705.7	1700.8
25°	1758.7	1751.5	1735.8	1717.7	1710.5
27.5°	1780.5	1770.8	1751.5	1731.0	1718.9
30°	1803.4	1791.3	1766.0	1739.4	1727.4
32.5°	1821.5	1809.4	1776.8	1746.7	1731.0
35°	1838.4	1822.7	1785.3	1747.9	1731.0
37.5°	1845.6	1828.7	1785.3	1741.9	1720.1
40°	1843.2	1825.1	1776.8	1727.4	1702.1
42.5°	1831.1	1809.4	1757.5	1702.1	1673.1
45°	1804.6	1780.5	1725.0	1665.9	1636.9
47.5°	1758.7	1734.6	1675.5	1612.8	1577.8
50°	1698.4	1673.1	1617.6	1547.6	1511.5
52.5°	1622.4	1597.1	1539.2	1468.0	1433.1
55°	1532.0	1505.4	1448.7	1381.2	1345.0
57.5°	1421.0	1401.7	1346.2	1282.3	1247.3
60°	1307.6	1288.3	1237.6	1177.3	1142.3
62.5°	1185.8	1170.1	1124.2	1067.6	1037.4
65°	1057.9	1045.8	1007.2	955.4	927.6
67.5°	927.6	922.8	887.8	843.2	819.1
70°	797.3	799.8	770.8	731.0	710.5
72.5°	670.7	679.1	656.2	623.6	609.2
75°	552.5	565.7	548.9	523.5	509.0
77.5°	442.7	460.8	446.3	427.0	415.0
80°	359.5	358.3	352.2	337.8	326.9
82.5°	258.1	263.0	259.3	250.9	244.9
85°	167.7	176.1	174.9	171.3	164.1
87.5°	83.2	92.9	94.1	91.7	88.1
90°	0.0	0.0	0.0	0.0	0.0

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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	22.5	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	22.6	22.4	23.0	23.6
12H	4H	21.0	21.8	21.4	22.3	22.7	20.5	21.3	21.0	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)