

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: P1527165

Luminaire Tested: 24CGTX-80HE-F125-L940

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1527165
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-80HE-F125-L940
Description: CGTX with F125 Lens Option

Light Source:
Ballast/Driver: -

Summary

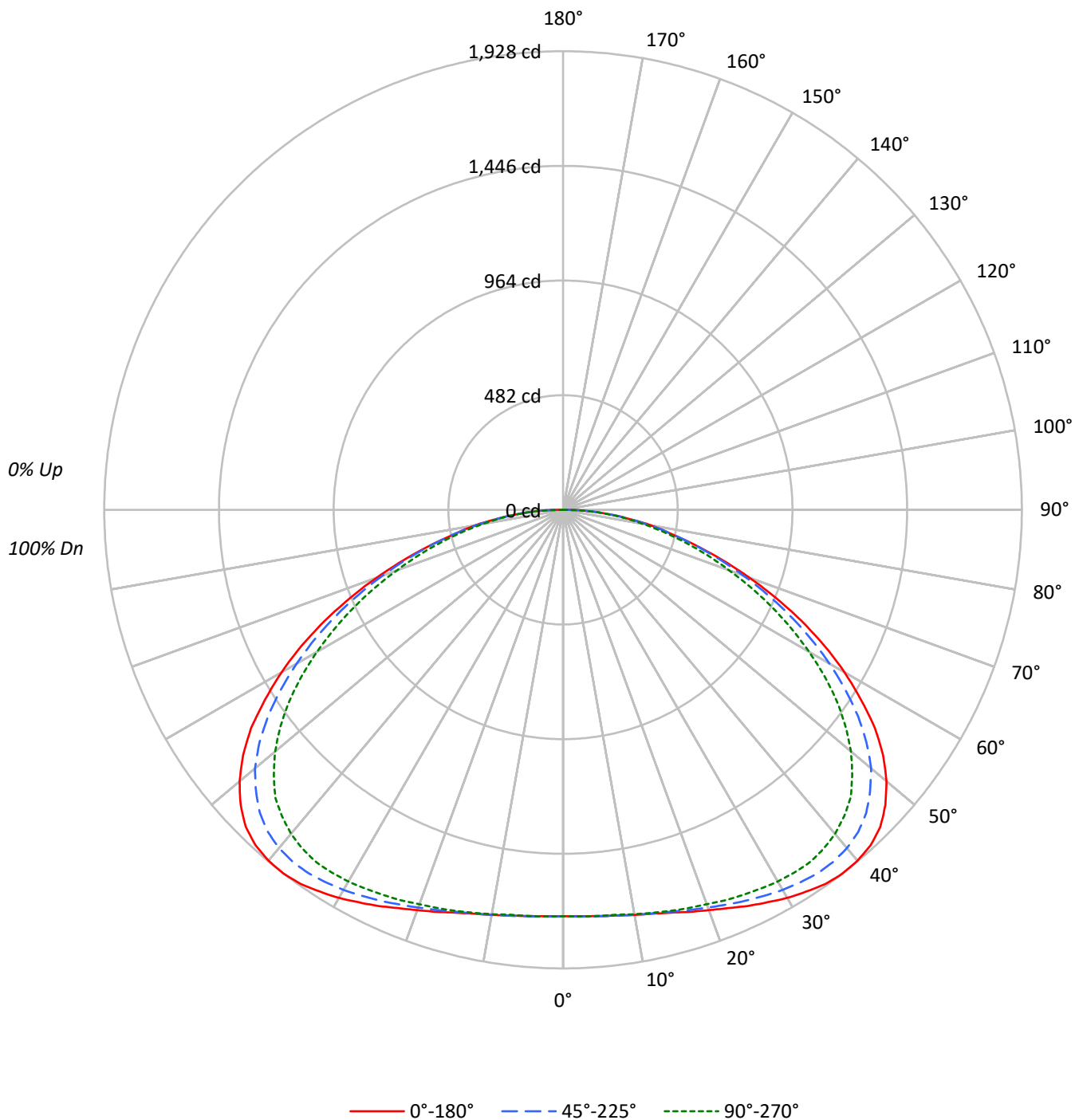
Lumens per Lamp: N/A
Luminaire Lumens: 7226.0 lumens
Efficiency: N/A
Efficacy: 113.8 lumens/watt
Spacing Criteria (0/90/45): 1.69 / 1.6 / 1.72
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 63.5
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°	2299	2299	2299
5°	2315	2316	2315
10°	2362	2362	2359
15°	2442	2436	2431
20°	2564	2548	2526
25°	2728	2692	2653
30°	2927	2866	2804
35°	3154	3063	2970
40°	3382	3260	3123
45°	3587	3429	3254
50°	3714	3537	3305
55°	3754	3550	3296
60°	3676	3479	3211
65°	3519	3350	3085
70°	3277	3168	2920
75°	3001	2981	2765
80°	2910	2851	2646
85°	2705	2820	2646

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 55°

Luminance: 3754 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.1	2.3
10°-20°	497.1	6.9
20°-30°	839.6	11.6
30°-40°	1167.9	16.2
40°-50°	1382.5	19.1
50°-60°	1341.3	18.6
60°-70°	1033.5	14.3
70°-80°	603.0	8.3
80°-90°	197.1	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°	1500.8	20.8
0°-40°	2668.7	36.9
0°-60°	5392.5	74.6
0°-90°	7226.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7226.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1709	1709	1709	1709	1709	
5°	1714	1715	1715	1715	1714	164
15°	1753	1753	1749	1745	1745	499
25°	1837	1830	1813	1794	1787	851
35°	1920	1904	1865	1826	1808	1203
45°	1885	1860	1802	1740	1710	1448
55°	1600	1573	1514	1443	1405	1421
65°	1105	1093	1052	998	969	1092
75°	577	591	573	547	532	618
85°	175	184	183	179	171	196
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1708.8	1708.8	1708.8	1708.8	1708.8
2.5°	1710.0	1711.3	1711.3	1711.3	1711.3
5°	1713.8	1715.1	1715.1	1715.1	1713.8
7.5°	1720.1	1720.1	1721.4	1720.1	1716.3
10°	1728.9	1728.9	1728.9	1727.7	1726.4
12.5°	1739.0	1740.3	1737.8	1736.5	1735.2
15°	1752.9	1752.9	1749.1	1745.3	1745.3
17.5°	1771.8	1769.3	1764.2	1757.9	1755.4
20°	1790.7	1788.2	1779.3	1769.3	1764.2
22.5°	1812.1	1807.1	1795.7	1781.9	1776.8
25°	1837.3	1829.8	1813.4	1794.5	1786.9
27.5°	1860.0	1849.9	1829.8	1808.3	1795.7
30°	1883.9	1871.3	1844.9	1817.2	1804.6
32.5°	1902.8	1890.2	1856.2	1824.7	1808.3
35°	1920.5	1904.1	1865.0	1826.0	1808.3
37.5°	1928.0	1910.4	1865.0	1819.7	1797.0
40°	1925.5	1906.6	1856.2	1804.6	1778.1
42.5°	1912.9	1890.2	1836.1	1778.1	1747.8
45°	1885.2	1860.0	1802.0	1740.3	1710.0
47.5°	1837.3	1812.1	1750.4	1684.8	1648.3
50°	1774.3	1747.8	1689.9	1616.8	1579.0
52.5°	1694.9	1668.5	1608.0	1533.6	1497.1
55°	1600.4	1572.7	1513.5	1442.9	1405.1
57.5°	1484.5	1464.3	1406.3	1339.6	1303.0
60°	1366.0	1345.9	1292.9	1229.9	1193.4
62.5°	1238.7	1222.4	1174.5	1115.2	1083.7
65°	1105.2	1092.6	1052.2	998.0	969.1
67.5°	969.1	964.0	927.5	880.9	855.6
70°	833.0	835.5	805.2	763.7	742.2
72.5°	700.6	709.5	685.5	651.5	636.4
75°	577.2	591.0	573.4	546.9	531.8
77.5°	462.5	481.4	466.3	446.1	433.5
80°	375.5	374.3	368.0	352.8	341.5
82.5°	269.7	274.7	270.9	262.1	255.8
85°	175.2	184.0	182.7	178.9	171.4
87.5°	87.0	97.0	98.3	95.8	92.0
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	17.3	19.0	17.6	19.3	19.6	16.6	18.3	17.0	18.7	19.0
	3H	19.1	20.7	19.5	21.0	21.4	18.4	20.0	18.8	20.3	20.7
	4H	19.8	21.3	20.2	21.6	22.0	19.1	20.6	19.5	20.9	21.3
	6H	20.3	21.7	20.7	22.0	22.4	19.6	21.0	20.1	21.4	21.8
	8H	20.5	21.8	20.9	22.2	22.6	19.9	21.2	20.3	21.6	22.0
	12H	20.6	21.9	21.1	22.3	22.7	20.0	21.3	20.4	21.7	22.1
4H	2H	17.9	19.4	18.3	19.7	20.1	17.4	18.8	17.8	19.2	19.6
	3H	19.9	21.2	20.3	21.6	22.0	19.4	20.6	19.8	21.0	21.4
	4H	20.7	21.9	21.2	22.3	22.7	20.2	21.3	20.6	21.7	22.2
	6H	21.4	22.4	21.9	22.9	23.3	20.9	21.9	21.3	22.3	22.8
	8H	21.7	22.6	22.1	23.1	23.5	21.1	22.1	21.6	22.5	23.0
	12H	21.9	22.7	22.4	23.2	23.7	21.4	22.2	21.8	22.7	23.1
8H	4H	21.1	22.0	21.5	22.4	22.9	20.6	21.5	21.0	21.9	22.4
	6H	21.9	22.7	22.4	23.2	23.6	21.4	22.2	21.9	22.7	23.1
	8H	22.2	22.9	22.7	23.4	23.9	21.8	22.5	22.3	23.0	23.4
	12H	22.5	23.2	23.0	23.6	24.2	22.1	22.7	22.6	23.2	23.7
12H	4H	21.1	22.0	21.6	22.4	22.9	20.6	21.5	21.1	21.9	22.4
	6H	22.0	22.7	22.5	23.1	23.7	21.5	22.2	22.0	22.7	23.2
	8H	22.4	23.0	22.9	23.5	24.0	21.9	22.5	22.4	23.0	23.6













(END OF REPORT)