

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: P1527153

Luminaire Tested: 24CGTX-72HE-F125-L835

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1527153
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-72HE-F125-L835
Description: CGTX with F125 Lens Option

Light Source:
Ballast/Driver: -

Summary

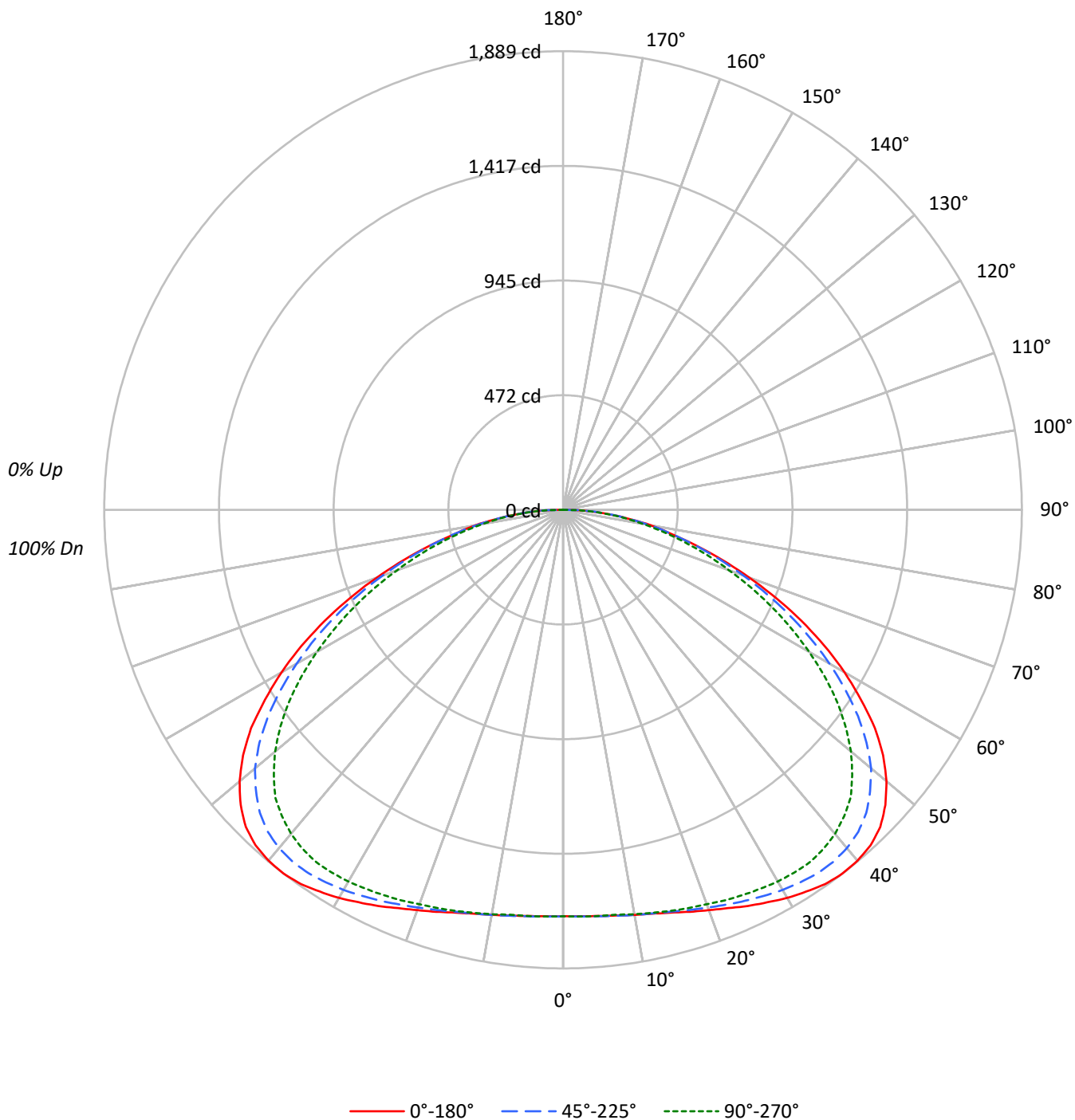
Lumens per Lamp: N/A
Luminaire Lumens: 7079.9 lumens
Efficiency: N/A
Efficacy: 132.1 lumens/watt
Spacing Criteria (0/90/45): 1.69 / 1.6 / 1.72
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 53.6
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°	2253	2253	2253
5°	2268	2270	2268
10°	2314	2314	2311
15°	2392	2387	2382
20°	2512	2496	2475
25°	2673	2638	2599
30°	2868	2808	2747
35°	3091	3001	2910
40°	3314	3194	3060
45°	3515	3360	3188
50°	3639	3466	3238
55°	3678	3478	3229
60°	3602	3409	3146
65°	3447	3282	3023
70°	3210	3104	2861
75°	2940	2921	2708
80°	2851	2793	2593
85°	2649	2763	2592

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 55°

Luminance: 3678 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.8	2.3
10°-20°	487.0	6.9
20°-30°	822.6	11.6
30°-40°	1144.3	16.2
40°-50°	1354.6	19.1
50°-60°	1314.2	18.6
60°-70°	1012.5	14.3
70°-80°	590.8	8.3
80°-90°	193.1	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°	1470.4	20.8
0°-40°	2614.7	36.9
0°-60°	5283.4	74.6
0°-90°	7079.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7079.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1674	1674	1674	1674	1674	
5°	1679	1680	1680	1680	1679	161
15°	1717	1717	1714	1710	1710	489
25°	1800	1793	1777	1758	1751	834
35°	1882	1866	1827	1789	1772	1179
45°	1847	1822	1766	1705	1675	1418
55°	1568	1541	1483	1414	1377	1392
65°	1083	1070	1031	978	950	1070
75°	566	579	562	536	521	606
85°	172	180	179	175	168	192
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1674.2	1674.2	1674.2	1674.2	1674.2
2.5°	1675.4	1676.7	1676.7	1676.7	1676.7
5°	1679.2	1680.4	1680.4	1680.4	1679.2
7.5°	1685.3	1685.3	1686.6	1685.3	1681.6
10°	1694.0	1694.0	1694.0	1692.7	1691.5
12.5°	1703.8	1705.1	1702.6	1701.4	1700.1
15°	1717.4	1717.4	1713.7	1710.0	1710.0
17.5°	1735.9	1733.5	1728.5	1722.4	1719.9
20°	1754.5	1752.0	1743.4	1733.5	1728.5
22.5°	1775.5	1770.5	1759.4	1745.8	1740.9
25°	1800.2	1792.7	1776.7	1758.2	1750.8
27.5°	1822.4	1812.5	1792.7	1771.8	1759.4
30°	1845.8	1833.5	1807.6	1780.4	1768.1
32.5°	1864.4	1852.0	1818.7	1787.8	1771.8
35°	1881.6	1865.6	1827.3	1789.0	1771.8
37.5°	1889.0	1871.8	1827.3	1782.9	1760.6
40°	1886.6	1868.1	1818.7	1768.1	1742.1
42.5°	1874.2	1852.0	1798.9	1742.1	1712.5
45°	1847.1	1822.4	1765.6	1705.1	1675.4
47.5°	1800.2	1775.5	1715.0	1650.8	1615.0
50°	1738.4	1712.5	1655.7	1584.1	1547.0
52.5°	1660.6	1634.7	1575.4	1502.6	1466.8
55°	1568.0	1540.9	1482.8	1413.7	1376.7
57.5°	1454.4	1434.7	1377.9	1312.5	1276.7
60°	1338.4	1318.6	1266.8	1205.0	1169.2
62.5°	1213.7	1197.6	1150.7	1092.7	1061.8
65°	1082.8	1070.5	1031.0	977.9	949.5
67.5°	949.5	944.5	908.7	863.0	838.3
70°	816.1	818.6	789.0	748.2	727.2
72.5°	686.5	695.1	671.7	638.3	623.5
75°	565.5	579.1	561.8	535.8	521.0
77.5°	453.1	471.6	456.8	437.1	424.7
80°	367.9	366.7	360.5	345.7	334.6
82.5°	264.2	269.2	265.5	256.8	250.6
85°	171.6	180.3	179.0	175.3	167.9
87.5°	85.2	95.1	96.3	93.8	90.1
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	17.2	18.9	17.6	19.3	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	20.9	21.2
	6H	20.2	21.6	20.6	22.0	22.4	19.6	21.0	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	19.9	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	22.7	20.1	21.3	20.5	21.7	22.1
	6H	21.4	22.4	21.8	22.8	23.2	20.8	21.8	21.2	22.2	22.7
	8H	21.6	22.5	22.1	23.0	23.5	21.1	22.0	21.5	22.4	22.9
	12H	21.8	22.7	22.3	23.1	23.6	21.3	22.1	21.8	22.6	23.1
8H	4H	21.0	21.9	21.4	22.4	22.8	20.5	21.4	21.0	21.9	22.3
	6H	21.8	22.6	22.3	23.1	23.6	21.3	22.1	21.8	22.6	23.1
	8H	22.2	22.9	22.7	23.4	23.8	21.7	22.4	22.2	22.9	23.4
	12H	22.5	23.1	23.0	23.6	24.1	22.0	22.6	22.5	23.1	23.7
12H	4H	21.0	21.9	21.5	22.4	22.8	20.6	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	23.0	23.5













(END OF REPORT)