

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: P1527164

Luminaire Tested: 24CGTX-80HE-F125-L935

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1527164
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-L935
Description: CGTX with F125 Lens Option

Light Source:
Ballast/Driver: -

Summary

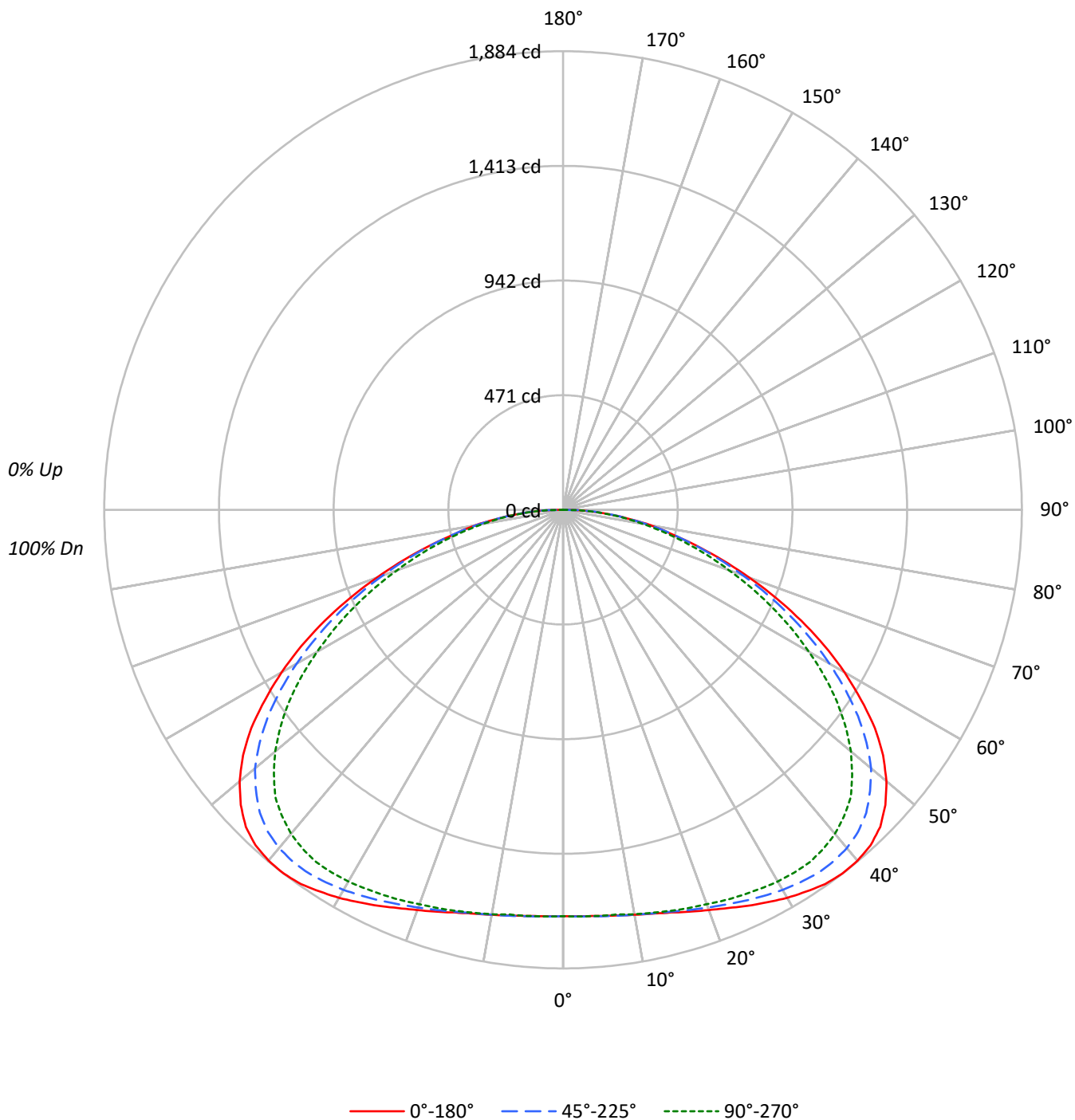
Lumens per Lamp: N/A
Luminaire Lumens: 7060.0 lumens
Efficiency: N/A
Efficacy: 111.2 lumens/watt
Spacing Criteria (0/90/45): 1.69 / 1.6 / 1.72
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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			
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°	2246	2246	2246
5°	2261	2263	2261
10°	2308	2308	2305
15°	2386	2380	2375
20°	2505	2489	2468
25°	2665	2630	2592
30°	2860	2800	2739
35°	3082	2993	2902
40°	3304	3185	3051
45°	3505	3350	3179
50°	3629	3456	3229
55°	3668	3469	3220
60°	3591	3399	3138
65°	3438	3273	3014
70°	3201	3095	2853
75°	2931	2912	2701
80°	2843	2786	2586
85°	2641	2756	2584

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 55°

Luminance: 3668 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.3	2.3
10°-20°	485.7	6.9
20°-30°	820.3	11.6
30°-40°	1141.1	16.2
40°-50°	1350.7	19.1
50°-60°	1310.5	18.6
60°-70°	1009.7	14.3
70°-80°	589.1	8.3
80°-90°	192.5	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°	1466.3	20.8
0°-40°	2607.4	36.9
0°-60°	5268.6	74.6
0°-90°	7060.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7060.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1670	1670	1670	1670	1670	
5°	1674	1676	1676	1676	1674	160
15°	1713	1713	1709	1705	1705	487
25°	1795	1788	1772	1753	1746	832
35°	1876	1860	1822	1784	1767	1175
45°	1842	1817	1761	1700	1671	1414
55°	1564	1537	1479	1410	1373	1388
65°	1080	1068	1028	975	947	1067
75°	564	577	560	534	520	604
85°	171	180	178	175	167	191
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1669.5	1669.5	1669.5	1669.5	1669.5
2.5°	1670.8	1672.0	1672.0	1672.0	1672.0
5°	1674.4	1675.7	1675.7	1675.7	1674.4
7.5°	1680.6	1680.6	1681.8	1680.6	1676.9
10°	1689.2	1689.2	1689.2	1688.0	1686.8
12.5°	1699.1	1700.3	1697.8	1696.6	1695.4
15°	1712.6	1712.6	1708.9	1705.2	1705.2
17.5°	1731.1	1728.6	1723.7	1717.5	1715.1
20°	1749.6	1747.1	1738.5	1728.6	1723.7
22.5°	1770.5	1765.6	1754.5	1740.9	1736.0
25°	1795.1	1787.7	1771.7	1753.2	1745.9
27.5°	1817.3	1807.4	1787.7	1766.8	1754.5
30°	1840.7	1828.3	1802.5	1775.4	1763.1
32.5°	1859.1	1846.8	1813.6	1782.8	1766.8
35°	1876.4	1860.4	1822.2	1784.0	1766.8
37.5°	1883.8	1866.5	1822.2	1777.9	1755.7
40°	1881.3	1862.8	1813.6	1763.1	1737.2
42.5°	1869.0	1846.8	1793.9	1737.2	1707.7
45°	1841.9	1817.3	1760.6	1700.3	1670.8
47.5°	1795.1	1770.5	1710.2	1646.1	1610.4
50°	1733.5	1707.7	1651.1	1579.6	1542.7
52.5°	1656.0	1630.1	1571.0	1498.4	1462.7
55°	1563.6	1536.6	1478.7	1409.7	1372.8
57.5°	1450.4	1430.7	1374.0	1308.8	1273.1
60°	1334.6	1314.9	1263.2	1201.7	1166.0
62.5°	1210.3	1194.3	1147.5	1089.6	1058.8
65°	1079.8	1067.5	1028.1	975.1	946.8
67.5°	946.8	941.9	906.2	860.6	836.0
70°	813.8	816.3	786.7	746.1	725.2
72.5°	684.6	693.2	669.8	636.5	621.8
75°	563.9	577.4	560.2	534.3	519.6
77.5°	451.9	470.3	455.5	435.8	423.5
80°	366.9	365.7	359.5	344.7	333.7
82.5°	263.5	268.4	264.7	256.1	249.9
85°	171.1	179.8	178.5	174.8	167.4
87.5°	85.0	94.8	96.0	93.6	89.9
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	19.8	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	21.2	20.5	21.7	22.1
	6H	21.3	22.3	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	23.4	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	20.9	21.9	22.3
	6H	21.8	22.6	22.3	23.1	23.5	21.3	22.1	21.8	22.6	23.1
	8H	22.1	22.9	22.7	23.4	23.8	21.7	22.4	22.2	22.9	23.4
	12H	22.4	23.1	22.9	23.6	24.1	22.0	22.6	22.5	23.1	23.7
12H	4H	21.0	21.9	21.5	22.3	22.8	20.5	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)