

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: P1527068

Luminaire Tested: 24CGTX-100HE-F125-L930

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1527068
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-100HE-F125-L930
Description: CGTX with F125 Lens Option

Light Source:
Ballast/Driver: -

Summary

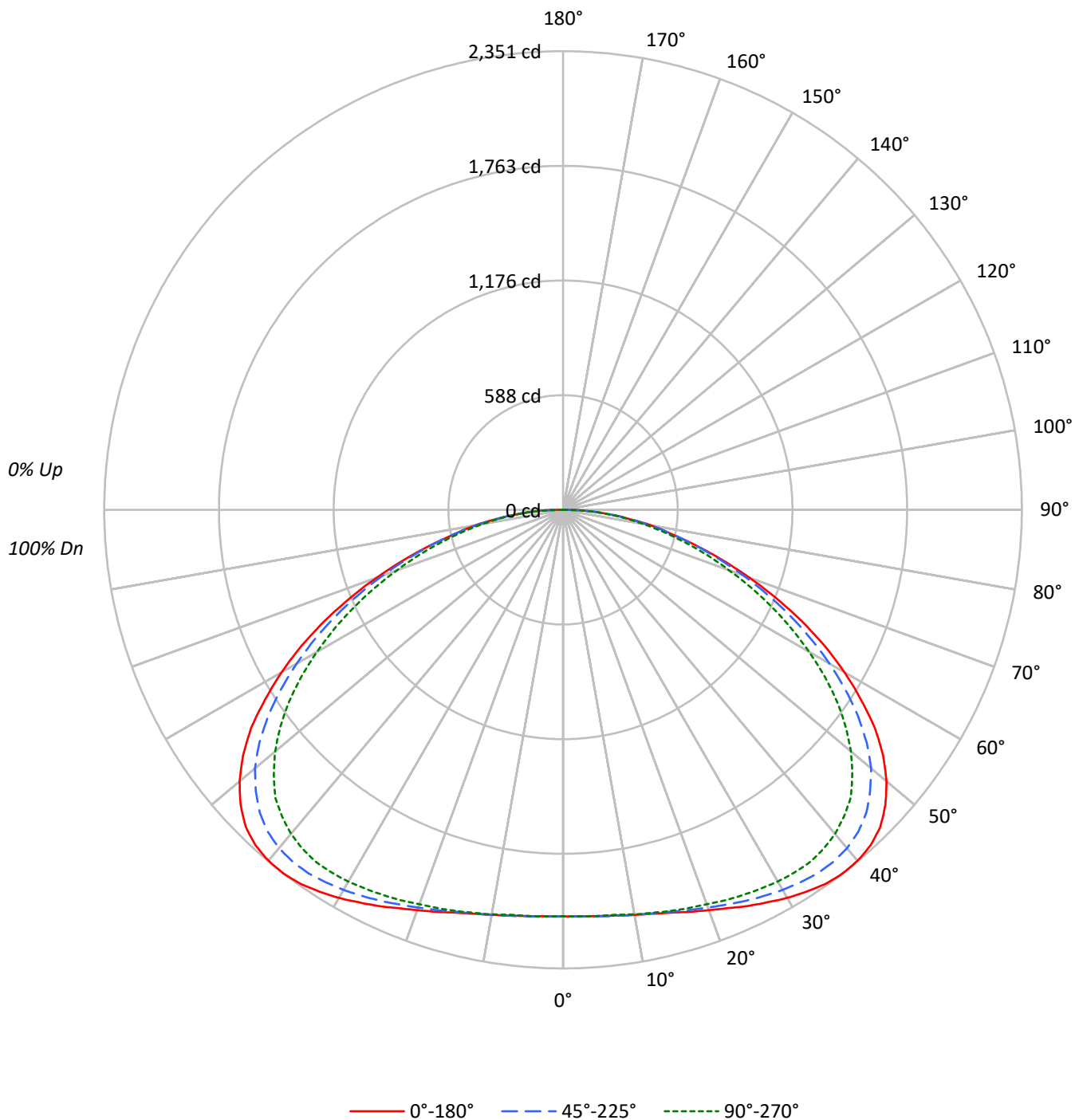
Lumens per Lamp: N/A
Luminaire Lumens: 8812.0 lumens
Efficiency: N/A
Efficacy: 106.7 lumens/watt
Spacing Criteria (0/90/45): 1.69 / 1.6 / 1.72
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 82.6
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		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°	2804	2804	2804
5°	2823	2825	2823
10°	2881	2881	2876
15°	2978	2971	2965
20°	3127	3107	3080
25°	3326	3283	3235
30°	3569	3495	3419
35°	3847	3736	3622
40°	4124	3976	3809
45°	4375	4181	3968
50°	4529	4314	4030
55°	4578	4329	4020
60°	4483	4243	3916
65°	4291	4085	3762
70°	3996	3863	3561
75°	3659	3635	3371
80°	3549	3477	3227
85°	3298	3440	3226

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 55°

Luminance: 4578 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.1	2.3
10°-20°	606.2	6.9
20°-30°	1023.9	11.6
30°-40°	1424.2	16.2
40°-50°	1685.9	19.1
50°-60°	1635.7	18.6
60°-70°	1260.3	14.3
70°-80°	735.3	8.3
80°-90°	240.3	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°	1830.2	20.8
0°-40°	3254.4	36.9
0°-60°	6576.0	74.6
0°-90°	8812.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8812.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2084	2084	2084	2084	2084	
5°	2090	2092	2092	2092	2090	200
15°	2138	2138	2133	2128	2128	608
25°	2241	2231	2211	2188	2179	1038
35°	2342	2322	2274	2227	2205	1467
45°	2299	2268	2198	2122	2085	1765
55°	1952	1918	1846	1760	1714	1733
65°	1348	1332	1283	1217	1182	1331
75°	704	721	699	667	648	754
85°	214	224	223	218	209	239
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2083.8	2083.8	2083.8	2083.8	2083.8
2.5°	2085.4	2086.9	2086.9	2086.9	2086.9
5°	2090.0	2091.5	2091.5	2091.5	2090.0
7.5°	2097.7	2097.7	2099.2	2097.7	2093.1
10°	2108.4	2108.4	2108.4	2106.9	2105.3
12.5°	2120.7	2122.2	2119.2	2117.6	2116.1
15°	2137.6	2137.6	2133.0	2128.4	2128.4
17.5°	2160.7	2157.6	2151.4	2143.8	2140.7
20°	2183.7	2180.6	2169.9	2157.6	2151.4
22.5°	2209.8	2203.7	2189.9	2173.0	2166.8
25°	2240.6	2231.4	2211.4	2188.3	2179.1
27.5°	2268.2	2255.9	2231.4	2205.2	2189.9
30°	2297.4	2282.1	2249.8	2216.0	2200.6
32.5°	2320.5	2305.1	2263.6	2225.2	2205.2
35°	2342.0	2322.0	2274.4	2226.7	2205.2
37.5°	2351.2	2329.7	2274.4	2219.1	2191.4
40°	2348.2	2325.1	2263.6	2200.6	2168.4
42.5°	2332.8	2305.1	2239.0	2168.4	2131.5
45°	2299.0	2268.2	2197.5	2122.2	2085.4
47.5°	2240.6	2209.8	2134.5	2054.6	2010.1
50°	2163.7	2131.5	2060.8	1971.6	1925.5
52.5°	2066.9	2034.7	1960.9	1870.2	1825.7
55°	1951.7	1917.9	1845.6	1759.6	1713.5
57.5°	1810.3	1785.7	1715.0	1633.6	1589.0
60°	1665.8	1641.2	1576.7	1499.9	1455.3
62.5°	1510.6	1490.6	1432.2	1360.0	1321.6
65°	1347.7	1332.4	1283.2	1217.1	1181.8
67.5°	1181.8	1175.6	1131.0	1074.2	1043.5
70°	1015.8	1018.9	982.0	931.3	905.1
72.5°	854.4	865.2	836.0	794.5	776.1
75°	703.8	720.7	699.2	666.9	648.5
77.5°	564.0	587.0	568.6	544.0	528.6
80°	458.0	456.4	448.7	430.3	416.5
82.5°	328.9	335.0	330.4	319.6	312.0
85°	213.6	224.4	222.8	218.2	209.0
87.5°	106.0	118.3	119.9	116.8	112.2
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	18.0	19.7	18.3	20.0	20.3	17.3	19.0	17.7	19.4	19.7
	3H	19.8	21.4	20.2	21.7	22.1	19.1	20.7	19.5	21.0	21.4
	4H	20.5	22.0	20.9	22.3	22.7	19.8	21.3	20.2	21.6	22.0
	6H	21.0	22.4	21.4	22.7	23.1	20.3	21.7	20.7	22.1	22.5
	8H	21.2	22.5	21.6	22.9	23.3	20.5	21.9	21.0	22.3	22.7
	12H	21.3	22.6	21.8	23.0	23.4	20.7	22.0	21.1	22.4	22.8
4H	2H	18.6	20.1	19.0	20.4	20.8	18.0	19.5	18.4	19.9	20.3
	3H	20.6	21.9	21.0	22.3	22.7	20.1	21.3	20.5	21.7	22.1
	4H	21.4	22.6	21.9	23.0	23.4	20.9	22.0	21.3	22.4	22.9
	6H	22.1	23.1	22.6	23.6	24.0	21.6	22.6	22.0	23.0	23.5
	8H	22.4	23.3	22.8	23.7	24.2	21.8	22.8	22.3	23.2	23.7
	12H	22.6	23.4	23.0	23.9	24.4	22.0	22.9	22.5	23.4	23.8
8H	4H	21.8	22.7	22.2	23.1	23.6	21.3	22.2	21.7	22.6	23.1
	6H	22.6	23.4	23.1	23.8	24.3	22.1	22.9	22.6	23.4	23.8
	8H	22.9	23.6	23.4	24.1	24.6	22.4	23.2	22.9	23.7	24.1
	12H	23.2	23.8	23.7	24.3	24.9	22.8	23.4	23.3	23.9	24.4
12H	4H	21.8	22.6	22.3	23.1	23.6	21.3	22.2	21.8	22.6	23.1
	6H	22.7	23.4	23.2	23.8	24.4	22.2	22.9	22.7	23.4	23.9
	8H	23.1	23.7	23.6	24.2	24.7	22.6	23.2	23.1	23.7	24.3













(END OF REPORT)