

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: P1527069

Luminaire Tested: 24CGTX-100HE-F125-L935

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1527069
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-L935
Description: CGTX with F125 Lens Option

Light Source:
Ballast/Driver: -

Summary

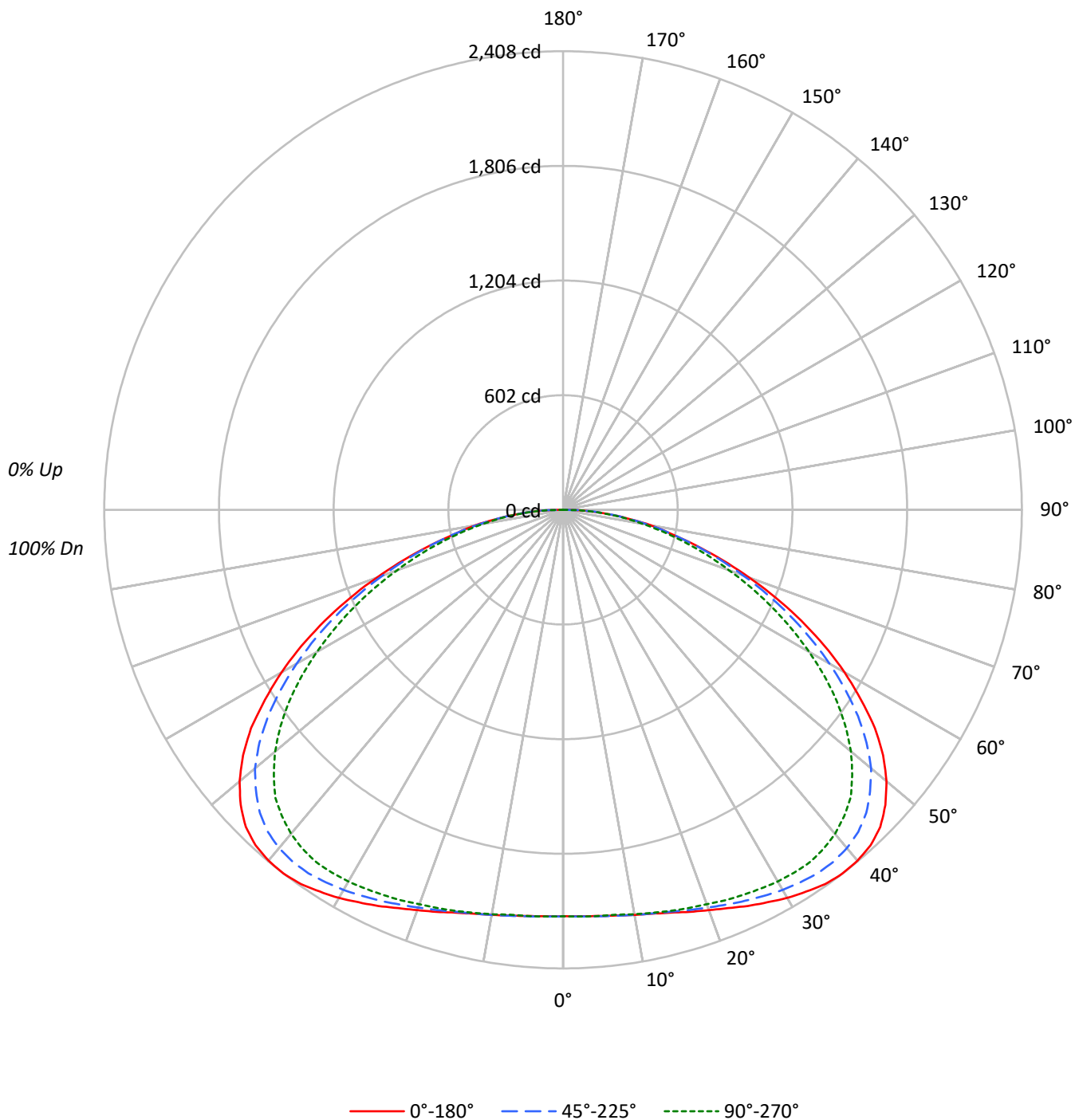
Lumens per Lamp: N/A
Luminaire Lumens: 9025.0 lumens
Efficiency: N/A
Efficacy: 109.3 lumens/watt
Spacing Criteria (0/90/45): 1.69 / 1.6 / 1.72
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1527069

CATALOG NUMBER: 24CGTX-100HE-F125-L935

Luminous Intensity Polar Plot



TEST NUMBER: P1527069

CATALOG NUMBER: 24CGTX-100HE-F125-L935

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°	2872	2872	2872
5°	2891	2893	2891
10°	2950	2950	2946
15°	3050	3043	3036
20°	3202	3182	3155
25°	3407	3362	3313
30°	3656	3580	3502
35°	3940	3826	3710
40°	4224	4072	3901
45°	4480	4283	4064
50°	4639	4418	4128
55°	4689	4434	4117
60°	4591	4345	4011
65°	4394	4184	3853
70°	4092	3956	3647
75°	3747	3723	3453
80°	3634	3561	3305
85°	3378	3523	3304

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 55°

Luminance: 4689 cd/sqm

TEST NUMBER: P1527069

CATALOG NUMBER: 24CGTX-100HE-F125-L935

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.9	2.3
10°-20°	620.9	6.9
20°-30°	1048.6	11.6
30°-40°	1458.7	16.2
40°-50°	1726.7	19.1
50°-60°	1675.2	18.6
60°-70°	1290.7	14.3
70°-80°	753.1	8.3
80°-90°	246.1	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°	1874.4	20.8
0°-40°	3333.1	36.9
0°-60°	6735.0	74.6
0°-90°	9025.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9025.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2134	2134	2134	2134	2134	
5°	2140	2142	2142	2142	2140	205
15°	2189	2189	2185	2180	2180	623
25°	2295	2285	2265	2241	2232	1063
35°	2399	2378	2329	2281	2258	1502
45°	2354	2323	2251	2174	2136	1808
55°	1999	1964	1890	1802	1755	1774
65°	1380	1365	1314	1246	1210	1363
75°	721	738	716	683	664	772
85°	219	230	228	224	214	245
90°	0	0	0	0	0	

TEST NUMBER: P1527069

CATALOG NUMBER: 24CGTX-100HE-F125-L935

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2134.2	2134.2	2134.2	2134.2	2134.2
2.5°	2135.8	2137.3	2137.3	2137.3	2137.3
5°	2140.5	2142.1	2142.1	2142.1	2140.5
7.5°	2148.4	2148.4	2149.9	2148.4	2143.6
10°	2159.4	2159.4	2159.4	2157.8	2156.2
12.5°	2172.0	2173.5	2170.4	2168.8	2167.3
15°	2189.3	2189.3	2184.6	2179.8	2179.8
17.5°	2212.9	2209.7	2203.5	2195.6	2192.4
20°	2236.5	2233.4	2222.3	2209.7	2203.5
22.5°	2263.3	2257.0	2242.8	2225.5	2219.2
25°	2294.7	2285.3	2264.8	2241.2	2231.8
27.5°	2323.1	2310.5	2285.3	2258.5	2242.8
30°	2353.0	2337.2	2304.2	2269.6	2253.8
32.5°	2376.6	2360.8	2318.3	2279.0	2258.5
35°	2398.6	2378.2	2329.4	2280.6	2258.5
37.5°	2408.1	2386.0	2329.4	2272.7	2244.4
40°	2404.9	2381.3	2318.3	2253.8	2220.8
42.5°	2389.2	2360.8	2293.2	2220.8	2183.0
45°	2354.5	2323.1	2250.7	2173.5	2135.8
47.5°	2294.7	2263.3	2186.1	2104.3	2058.7
50°	2216.0	2183.0	2110.6	2019.3	1972.1
52.5°	2116.9	2083.8	2008.3	1915.4	1869.8
55°	1998.8	1964.2	1890.2	1802.1	1754.9
57.5°	1854.0	1828.9	1756.5	1673.0	1627.4
60°	1706.1	1680.9	1614.8	1536.1	1490.5
62.5°	1547.1	1526.7	1466.9	1392.9	1353.5
65°	1380.3	1364.6	1314.2	1246.5	1210.3
67.5°	1210.3	1204.0	1158.4	1100.2	1068.7
70°	1040.3	1043.5	1005.7	953.8	927.0
72.5°	875.1	886.1	856.2	813.7	794.8
75°	720.8	738.2	716.1	683.1	664.2
77.5°	577.6	601.2	582.3	557.2	541.4
80°	469.0	467.4	459.6	440.7	426.5
82.5°	336.8	343.1	338.4	327.4	319.5
85°	218.8	229.8	228.2	223.5	214.0
87.5°	108.6	121.2	122.8	119.6	114.9
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1527069

CATALOG NUMBER: 24CGTX-100HE-F125-L935

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	18.1	19.8	18.4	20.1	20.4	17.4	19.1	17.7	19.4	19.8
	3H	19.9	21.5	20.2	21.8	22.1	19.2	20.8	19.6	21.1	21.4
	4H	20.5	22.0	20.9	22.4	22.8	19.9	21.4	20.3	21.7	22.1
	6H	21.1	22.5	21.5	22.8	23.2	20.4	21.8	20.8	22.2	22.6
	8H	21.3	22.6	21.7	23.0	23.4	20.6	22.0	21.0	22.3	22.7
	12H	21.4	22.7	21.8	23.1	23.5	20.8	22.1	21.2	22.4	22.9
4H	2H	18.7	20.1	19.0	20.5	20.9	18.1	19.6	18.5	20.0	20.3
	3H	20.7	22.0	21.1	22.4	22.8	20.1	21.4	20.5	21.8	22.2
	4H	21.5	22.7	21.9	23.1	23.5	21.0	22.1	21.4	22.5	22.9
	6H	22.2	23.2	22.6	23.6	24.1	21.6	22.6	22.1	23.1	23.5
	8H	22.5	23.4	22.9	23.8	24.3	21.9	22.8	22.4	23.3	23.7
	12H	22.7	23.5	23.1	24.0	24.4	22.1	23.0	22.6	23.5	23.9
8H	4H	21.8	22.8	22.3	23.2	23.7	21.3	22.3	21.8	22.7	23.2
	6H	22.7	23.4	23.1	23.9	24.4	22.2	23.0	22.7	23.4	23.9
	8H	23.0	23.7	23.5	24.2	24.7	22.5	23.2	23.0	23.7	24.2
	12H	23.3	23.9	23.8	24.4	25.0	22.8	23.5	23.3	24.0	24.5
12H	4H	21.9	22.7	22.4	23.2	23.7	21.4	22.2	21.9	22.7	23.2
	6H	22.7	23.5	23.3	23.9	24.4	22.3	23.0	22.8	23.4	24.0
	8H	23.1	23.8	23.6	24.3	24.8	22.7	23.3	23.2	23.8	24.4















(END OF REPORT)