

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: P1527082

Luminaire Tested: 24CGTX-30-F125-L830

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1527082
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-30-F125-L830
Description: CGTX with F125 Lens Option

Light Source:
Ballast/Driver: -

Summary

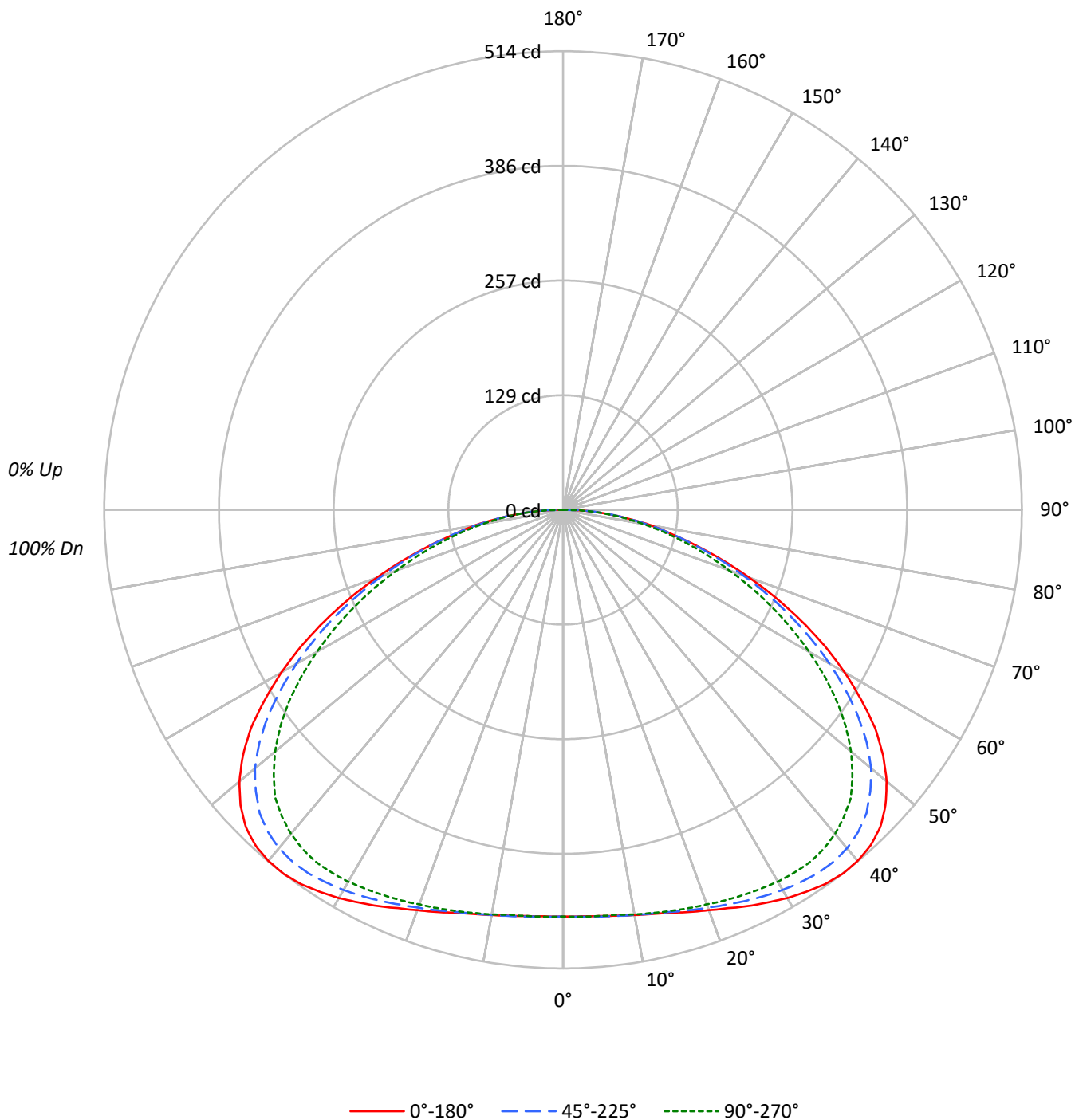
Lumens per Lamp: N/A
Luminaire Lumens: 1927.0 lumens
Efficiency: N/A
Efficacy: 81.3 lumens/watt
Spacing Criteria (0/90/45): 1.69 / 1.6 / 1.72
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 23.7
Input Voltage (V):
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.9
Total Harmonic Distortion (THDi): ≈20%
Frequency (hertz): 60
Stabilization Time: HR
Operation Time: HR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P1527082

CATALOG NUMBER: 24CGTX-30-F125-L830

Luminous Intensity Polar Plot



TEST NUMBER: P1527082

CATALOG NUMBER: 24CGTX-30-F125-L830

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°	613	613	613
5°	617	618	617
10°	630	630	629
15°	651	650	648
20°	684	679	674
25°	727	718	707
30°	781	764	748
35°	841	817	792
40°	902	869	833
45°	957	914	868
50°	991	943	881
55°	1001	947	879
60°	980	928	856
65°	938	893	823
70°	874	845	779
75°	800	795	737
80°	776	760	706
85°	721	752	706

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 55°

Luminance: 1001 cd/sqm

TEST NUMBER: P1527082

CATALOG NUMBER: 24CGTX-30-F125-L830

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.8	2.3
10°-20°	132.6	6.9
20°-30°	223.9	11.6
30°-40°	311.5	16.2
40°-50°	368.7	19.1
50°-60°	357.7	18.6
60°-70°	275.6	14.3
70°-80°	160.8	8.3
80°-90°	52.6	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°	400.2	20.8
0°-40°	711.7	36.9
0°-60°	1438.0	74.6
0°-90°	1927.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1927.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	456	456	456	456	456	
5°	457	457	457	457	457	44
15°	468	468	466	465	465	133
25°	490	488	484	478	476	227
35°	512	508	497	487	482	321
45°	503	496	481	464	456	386
55°	427	419	404	385	375	379
65°	295	291	281	266	258	291
75°	154	158	153	146	142	165
85°	47	49	49	48	46	52
90°	0	0	0	0	0	



TEST NUMBER: P1527082

CATALOG NUMBER: 24CGTX-30-F125-L830

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	455.7	455.7	455.7	455.7	455.7
2.5°	456.0	456.4	456.4	456.4	456.4
5°	457.0	457.4	457.4	457.4	457.0
7.5°	458.7	458.7	459.1	458.7	457.7
10°	461.1	461.1	461.1	460.7	460.4
12.5°	463.8	464.1	463.4	463.1	462.7
15°	467.5	467.5	466.4	465.4	465.4
17.5°	472.5	471.8	470.5	468.8	468.1
20°	477.5	476.9	474.5	471.8	470.5
22.5°	483.2	481.9	478.9	475.2	473.8
25°	490.0	488.0	483.6	478.5	476.5
27.5°	496.0	493.3	488.0	482.2	478.9
30°	502.4	499.0	492.0	484.6	481.2
32.5°	507.4	504.1	495.0	486.6	482.2
35°	512.1	507.8	497.4	486.9	482.2
37.5°	514.2	509.5	497.4	485.3	479.2
40°	513.5	508.5	495.0	481.2	474.2
42.5°	510.1	504.1	489.6	474.2	466.1
45°	502.7	496.0	480.6	464.1	456.0
47.5°	490.0	483.2	466.8	449.3	439.6
50°	473.2	466.1	450.6	431.2	421.1
52.5°	452.0	444.9	428.8	409.0	399.2
55°	426.8	419.4	403.6	384.8	374.7
57.5°	395.9	390.5	375.0	357.2	347.5
60°	364.3	358.9	344.8	328.0	318.2
62.5°	330.3	326.0	313.2	297.4	289.0
65°	294.7	291.4	280.6	266.2	258.4
67.5°	258.4	257.1	247.3	234.9	228.2
70°	222.1	222.8	214.7	203.6	197.9
72.5°	186.8	189.2	182.8	173.7	169.7
75°	153.9	157.6	152.9	145.8	141.8
77.5°	123.3	128.4	124.3	119.0	115.6
80°	100.1	99.8	98.1	94.1	91.1
82.5°	71.9	73.3	72.3	69.9	68.2
85°	46.7	49.1	48.7	47.7	45.7
87.5°	23.2	25.9	26.2	25.5	24.5
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1527082

CATALOG NUMBER: 24CGTX-30-F125-L830

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	12.7	14.4	13.1	14.7	15.1	12.0	13.8	12.4	14.1	14.4
	3H	14.5	16.1	14.9	16.4	16.8	13.8	15.4	14.2	15.7	16.1
	4H	15.2	16.7	15.6	17.0	17.4	14.5	16.0	14.9	16.3	16.7
	6H	15.7	17.1	16.1	17.5	17.8	15.1	16.4	15.5	16.8	17.2
	8H	15.9	17.2	16.3	17.6	18.0	15.3	16.6	15.7	17.0	17.4
	12H	16.0	17.3	16.5	17.7	18.1	15.4	16.7	15.9	17.1	17.5
4H	2H	13.3	14.8	13.7	15.1	15.5	12.8	14.3	13.2	14.6	15.0
	3H	15.3	16.6	15.7	17.0	17.4	14.8	16.0	15.2	16.4	16.8
	4H	16.2	17.3	16.6	17.7	18.1	15.6	16.7	16.0	17.1	17.6
	6H	16.8	17.8	17.3	18.3	18.7	16.3	17.3	16.7	17.7	18.2
	8H	17.1	18.0	17.5	18.5	18.9	16.5	17.5	17.0	17.9	18.4
	12H	17.3	18.1	17.8	18.6	19.1	16.8	17.6	17.2	18.1	18.6
8H	4H	16.5	17.4	16.9	17.9	18.3	16.0	16.9	16.4	17.4	17.8
	6H	17.3	18.1	17.8	18.6	19.0	16.8	17.6	17.3	18.1	18.6
	8H	17.6	18.3	18.1	18.8	19.3	17.2	17.9	17.7	18.4	18.9
	12H	17.9	18.6	18.4	19.1	19.6	17.5	18.1	18.0	18.6	19.2
12H	4H	16.5	17.4	17.0	17.8	18.3	16.0	16.9	16.5	17.4	17.8
	6H	17.4	18.1	17.9	18.5	19.1	16.9	17.6	17.4	18.1	18.6
	8H	17.8	18.4	18.3	18.9	19.4	17.3	18.0	17.8	18.4	19.0















(END OF REPORT)