

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: P1527086

Luminaire Tested: 24CGTX-30HE-F125-L830

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1527086
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-30HE-F125-L830
Description: CGTX with F125 Lens Option

Light Source:
Ballast/Driver: -

Summary

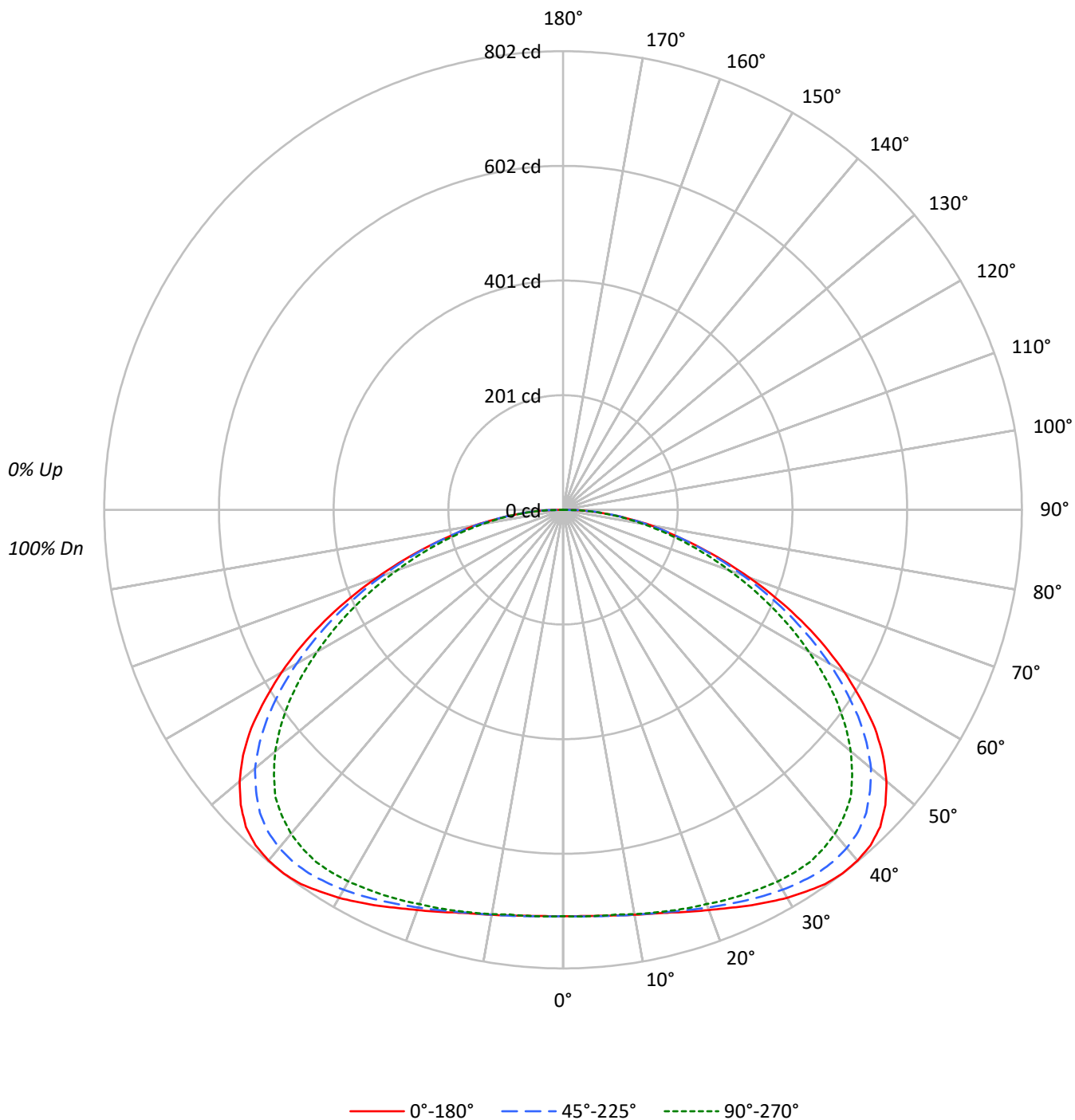
Lumens per Lamp: N/A
Luminaire Lumens: 3005.0 lumens
Efficiency: N/A
Efficacy: 137.2 lumens/watt
Spacing Criteria (0/90/45): 1.69 / 1.6 / 1.72
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 21.9
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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	108	102	98	94	105	100	96	92	96	92	89		92	89	86		88
2	97	88	81	74	94	86	79	74	83	77	72		79	74	70		76
3	88	76	68	61	85	75	67	60	72	65	59		69	63	58		66
4	80	67	57	50	77	66	57	50	63	55	49		61	54	48		58
5	73	59	50	43	71	58	49	42	56	48	42		54	47	41		52
6	67	53	43	36	65	52	43	36	50	42	36		48	41	36		47
7	62	47	38	32	60	47	38	32	45	37	31		44	36	31		42
8	57	43	34	28	56	42	34	28	41	33	28		40	33	27		38
9	53	39	31	25	52	39	30	25	37	30	25		36	29	24		35
10	50	36	28	22	48	35	27	22	34	27	22		33	27	22		33

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	956	956	956
5°	963	963	963
10°	982	982	981
15°	1015	1013	1011
20°	1066	1060	1051
25°	1134	1120	1103
30°	1217	1192	1166
35°	1312	1274	1235
40°	1406	1356	1299
45°	1492	1426	1353
50°	1545	1471	1374
55°	1561	1476	1371
60°	1529	1447	1336
65°	1463	1393	1283
70°	1363	1317	1214
75°	1248	1239	1149
80°	1210	1185	1100
85°	1124	1173	1101

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 55°

Luminance: 1561 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.2	2.3
10°-20°	206.7	6.9
20°-30°	349.1	11.6
30°-40°	485.7	16.2
40°-50°	574.9	19.1
50°-60°	557.8	18.6
60°-70°	429.8	14.3
70°-80°	250.7	8.3
80°-90°	82.0	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°	624.1	20.8
0°-40°	1109.8	36.9
0°-60°	2242.5	74.6
0°-90°	3005.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3005.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	711	711	711	711	711	
5°	713	713	713	713	713	68
15°	729	729	727	726	726	207
25°	764	761	754	746	743	354
35°	799	792	776	759	752	500
45°	784	774	749	724	711	602
55°	666	654	629	600	584	591
65°	460	454	438	415	403	454
75°	240	246	238	227	221	257
85°	73	76	76	74	71	81
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	710.6	710.6	710.6	710.6	710.6
2.5°	711.1	711.7	711.7	711.7	711.7
5°	712.7	713.2	713.2	713.2	712.7
7.5°	715.3	715.3	715.9	715.3	713.8
10°	719.0	719.0	719.0	718.5	717.9
12.5°	723.2	723.7	722.7	722.1	721.6
15°	729.0	729.0	727.4	725.8	725.8
17.5°	736.8	735.8	733.7	731.0	730.0
20°	744.7	743.6	740.0	735.8	733.7
22.5°	753.6	751.5	746.8	741.0	738.9
25°	764.1	760.9	754.1	746.2	743.1
27.5°	773.5	769.3	760.9	752.0	746.8
30°	783.5	778.2	767.2	755.7	750.4
32.5°	791.3	786.1	771.9	758.8	752.0
35°	798.7	791.8	775.6	759.3	752.0
37.5°	801.8	794.5	775.6	756.7	747.3
40°	800.7	792.9	771.9	750.4	739.4
42.5°	795.5	786.1	763.5	739.4	726.9
45°	784.0	773.5	749.4	723.7	711.1
47.5°	764.1	753.6	727.9	700.7	685.5
50°	737.9	726.9	702.8	672.4	656.6
52.5°	704.8	693.8	668.7	637.8	622.6
55°	665.5	654.0	629.4	600.0	584.3
57.5°	617.3	608.9	584.8	557.1	541.9
60°	568.1	559.7	537.7	511.5	496.3
62.5°	515.1	508.3	488.4	463.8	450.7
65°	459.6	454.4	437.6	415.0	403.0
67.5°	403.0	400.9	385.7	366.3	355.8
70°	346.4	347.4	334.9	317.6	308.7
72.5°	291.4	295.0	285.1	270.9	264.6
75°	240.0	245.8	238.4	227.4	221.1
77.5°	192.3	200.2	193.9	185.5	180.3
80°	156.2	155.6	153.0	146.7	142.0
82.5°	112.1	114.2	112.7	109.0	106.4
85°	72.8	76.5	76.0	74.4	71.3
87.5°	36.2	40.4	40.9	39.8	38.3
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	14.2	16.0	14.6	16.3	16.6	13.6	15.3	13.9	15.6	15.9
	3H	16.1	17.6	16.4	18.0	18.3	15.4	16.9	15.7	17.3	17.6
	4H	16.7	18.2	17.1	18.6	18.9	16.0	17.5	16.4	17.9	18.3
	6H	17.2	18.6	17.7	19.0	19.4	16.6	18.0	17.0	18.3	18.7
	8H	17.4	18.8	17.9	19.2	19.6	16.8	18.1	17.2	18.5	18.9
	12H	17.6	18.9	18.0	19.2	19.7	17.0	18.2	17.4	18.6	19.1
4H	2H	14.8	16.3	15.2	16.7	17.0	14.3	15.8	14.7	16.1	16.5
	3H	16.9	18.1	17.3	18.5	18.9	16.3	17.6	16.7	18.0	18.4
	4H	17.7	18.8	18.1	19.3	19.7	17.1	18.3	17.6	18.7	19.1
	6H	18.4	19.4	18.8	19.8	20.3	17.8	18.8	18.3	19.3	19.7
	8H	18.6	19.6	19.1	20.0	20.5	18.1	19.0	18.5	19.5	19.9
	12H	18.8	19.7	19.3	20.2	20.6	18.3	19.2	18.8	19.6	20.1
8H	4H	18.0	19.0	18.5	19.4	19.9	17.5	18.5	18.0	18.9	19.4
	6H	18.8	19.6	19.3	20.1	20.6	18.4	19.1	18.8	19.6	20.1
	8H	19.2	19.9	19.7	20.4	20.9	18.7	19.4	19.2	19.9	20.4
	12H	19.5	20.1	20.0	20.6	21.2	19.0	19.7	19.5	20.1	20.7
12H	4H	18.1	18.9	18.5	19.4	19.8	17.6	18.4	18.1	18.9	19.4
	6H	18.9	19.6	19.4	20.1	20.6	18.5	19.2	19.0	19.6	20.2
	8H	19.3	19.9	19.8	20.4	21.0	18.9	19.5	19.4	20.0	20.5















(END OF REPORT)