

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: P1527089

Luminaire Tested: 24CGTX-30HE-F125-L850

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1527089
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-L850
Description: CGTX with F125 Lens Option

Light Source:
Ballast/Driver: -

Summary

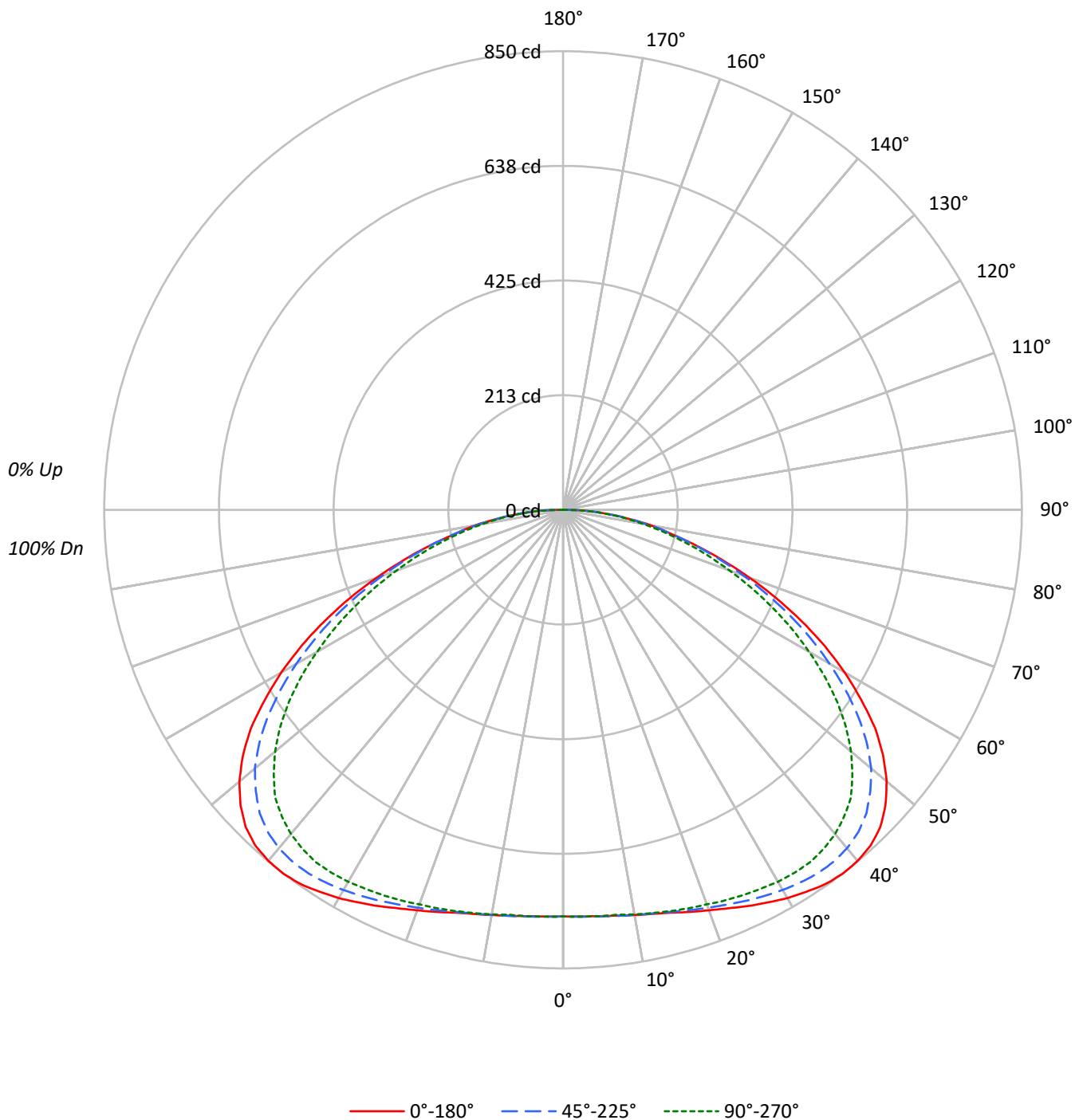
Lumens per Lamp: N/A
Luminaire Lumens: 3187.0 lumens
Efficiency: N/A
Efficacy: 145.5 lumens/watt
Spacing Criteria (0/90/45): 1.69 / 1.6 / 1.72
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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			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°	1014	1014	1014
5°	1021	1022	1021
10°	1042	1042	1040
15°	1077	1075	1072
20°	1131	1124	1114
25°	1203	1187	1170
30°	1291	1264	1237
35°	1391	1351	1310
40°	1492	1438	1377
45°	1582	1512	1435
50°	1638	1560	1458
55°	1656	1566	1454
60°	1621	1534	1416
65°	1552	1478	1361
70°	1445	1397	1288
75°	1324	1315	1219
80°	1283	1258	1167
85°	1193	1244	1167

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 55°
Luminance: 1656 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.4	2.3
10°-20°	219.2	6.9
20°-30°	370.3	11.6
30°-40°	515.1	16.2
40°-50°	609.7	19.1
50°-60°	591.6	18.6
60°-70°	455.8	14.3
70°-80°	265.9	8.3
80°-90°	86.9	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°	661.9	20.8
0°-40°	1177.0	36.9
0°-60°	2378.3	74.6
0°-90°	3187.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3187.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	754	754	754	754	754	
5°	756	756	756	756	756	72
15°	773	773	771	770	770	220
25°	810	807	800	791	788	376
35°	847	840	823	805	798	531
45°	832	820	795	768	754	638
55°	706	694	668	636	620	627
65°	487	482	464	440	427	481
75°	255	261	253	241	234	273
85°	77	81	81	79	76	86
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	753.7	753.7	753.7	753.7	753.7
2.5°	754.2	754.8	754.8	754.8	754.8
5°	755.9	756.4	756.4	756.4	755.9
7.5°	758.7	758.7	759.2	758.7	757.0
10°	762.5	762.5	762.5	762.0	761.4
12.5°	767.0	767.5	766.4	765.9	765.3
15°	773.1	773.1	771.4	769.8	769.8
17.5°	781.4	780.3	778.1	775.3	774.2
20°	789.8	788.7	784.8	780.3	778.1
22.5°	799.2	797.0	792.0	785.9	783.7
25°	810.3	807.0	799.8	791.4	788.1
27.5°	820.3	815.9	807.0	797.6	792.0
30°	830.9	825.3	813.7	801.4	795.9
32.5°	839.2	833.7	818.7	804.8	797.6
35°	847.0	839.8	822.6	805.3	797.6
37.5°	850.4	842.6	822.6	802.6	792.6
40°	849.2	840.9	818.7	795.9	784.2
42.5°	843.7	833.7	809.8	784.2	770.9
45°	831.5	820.3	794.8	767.5	754.2
47.5°	810.3	799.2	772.0	743.1	727.0
50°	782.6	770.9	745.3	713.1	696.4
52.5°	747.5	735.9	709.2	676.4	660.3
55°	705.9	693.6	667.5	636.4	619.7
57.5°	654.7	645.8	620.3	590.8	574.7
60°	602.5	593.6	570.2	542.5	526.3
62.5°	546.3	539.1	518.0	491.9	478.0
65°	487.4	481.9	464.1	440.2	427.4
67.5°	427.4	425.2	409.1	388.5	377.4
70°	367.4	368.5	355.1	336.8	327.4
72.5°	309.0	312.9	302.3	287.3	280.7
75°	254.6	260.7	252.9	241.2	234.5
77.5°	204.0	212.3	205.6	196.7	191.2
80°	165.6	165.1	162.3	155.6	150.6
82.5°	118.9	121.2	119.5	115.6	112.8
85°	77.3	81.1	80.6	78.9	75.6
87.5°	38.3	42.8	43.4	42.2	40.6
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	14.4	16.2	14.8	16.5	16.8	13.8	15.5	14.1	15.8	16.1
	3H	16.3	17.8	16.6	18.2	18.5	15.6	17.1	15.9	17.5	17.8
	4H	16.9	18.4	17.3	18.8	19.1	16.2	17.7	16.6	18.1	18.5
	6H	17.5	18.8	17.9	19.2	19.6	16.8	18.2	17.2	18.6	18.9
	8H	17.6	19.0	18.1	19.4	19.8	17.0	18.3	17.4	18.7	19.1
	12H	17.8	19.1	18.2	19.4	19.9	17.2	18.4	17.6	18.8	19.3
4H	2H	15.0	16.5	15.4	16.9	17.2	14.5	16.0	14.9	16.3	16.7
	3H	17.1	18.3	17.5	18.7	19.1	16.5	17.8	16.9	18.2	18.6
	4H	17.9	19.0	18.3	19.5	19.9	17.3	18.5	17.8	18.9	19.3
	6H	18.6	19.6	19.0	20.0	20.5	18.0	19.0	18.5	19.5	19.9
	8H	18.8	19.8	19.3	20.2	20.7	18.3	19.2	18.7	19.7	20.1
	12H	19.0	19.9	19.5	20.4	20.8	18.5	19.4	19.0	19.8	20.3
8H	4H	18.2	19.2	18.7	19.6	20.1	17.7	18.7	18.2	19.1	19.6
	6H	19.0	19.8	19.5	20.3	20.8	18.6	19.3	19.0	19.8	20.3
	8H	19.4	20.1	19.9	20.6	21.1	18.9	19.6	19.4	20.1	20.6
	12H	19.7	20.3	20.2	20.8	21.4	19.2	19.9	19.7	20.3	20.9
12H	4H	18.3	19.1	18.7	19.6	20.1	17.8	18.6	18.3	19.1	19.6
	6H	19.1	19.8	19.6	20.3	20.8	18.7	19.4	19.2	19.8	20.4
	8H	19.5	20.2	20.0	20.6	21.2	19.1	19.7	19.6	20.2	20.7















(END OF REPORT)