

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: P1527096

Luminaire Tested: 24CGTX-35-F125-L850

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1527096
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-35-F125-L850
Description: CGTX with F125 Lens Option

Light Source:
Ballast/Driver: -

Summary

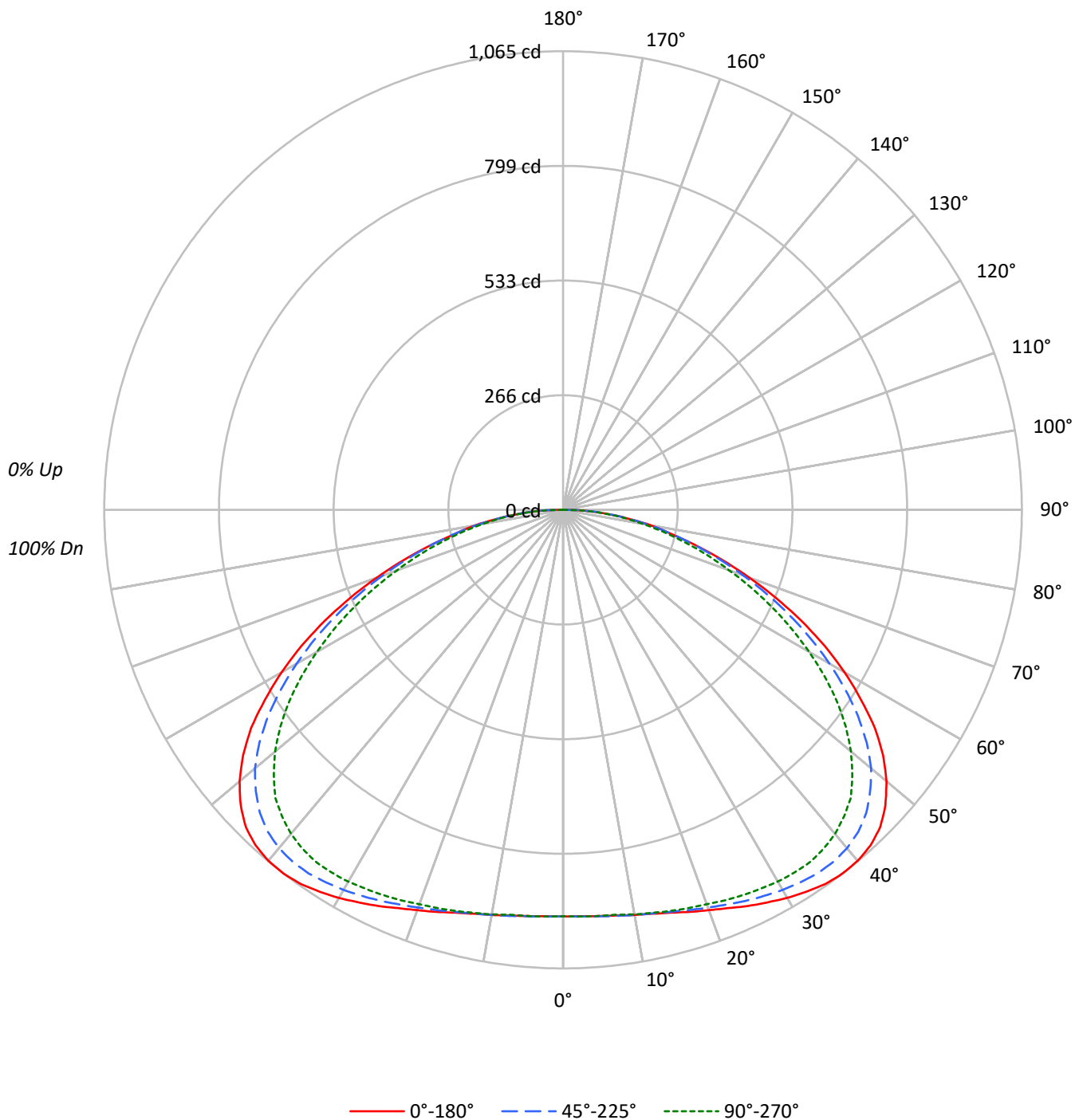
Lumens per Lamp: N/A
Luminaire Lumens: 3992.0 lumens
Efficiency: N/A
Efficacy: 140.6 lumens/watt
Spacing Criteria (0/90/45): 1.69 / 1.6 / 1.72
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 28.4
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	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°	1270	1270	1270
5°	1279	1280	1279
10°	1305	1305	1303
15°	1349	1346	1343
20°	1417	1407	1395
25°	1507	1487	1466
30°	1617	1583	1549
35°	1743	1692	1641
40°	1868	1801	1725
45°	1982	1894	1798
50°	2052	1954	1826
55°	2074	1961	1821
60°	2031	1922	1774
65°	1944	1851	1705
70°	1810	1750	1613
75°	1657	1647	1527
80°	1608	1575	1462
85°	1494	1558	1462

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 55°

Luminance: 2074 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.7	2.3
10°-20°	274.6	6.9
20°-30°	463.8	11.6
30°-40°	645.2	16.2
40°-50°	763.8	19.1
50°-60°	741.0	18.6
60°-70°	570.9	14.3
70°-80°	333.1	8.3
80°-90°	108.9	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°	829.1	20.8
0°-40°	1474.3	36.9
0°-60°	2979.1	74.6
0°-90°	3992.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3992.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	944	944	944	944	944	
5°	947	948	948	948	947	91
15°	968	968	966	964	964	275
25°	1015	1011	1002	991	987	470
35°	1061	1052	1030	1009	999	665
45°	1042	1028	996	961	945	800
55°	884	869	836	797	776	785
65°	610	604	581	551	535	603
75°	319	326	317	302	294	342
85°	97	102	101	99	95	108
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	944.0	944.0	944.0	944.0	944.0
2.5°	944.7	945.4	945.4	945.4	945.4
5°	946.8	947.5	947.5	947.5	946.8
7.5°	950.3	950.3	951.0	950.3	948.2
10°	955.2	955.2	955.2	954.5	953.8
12.5°	960.7	961.4	960.0	959.3	958.6
15°	968.4	968.4	966.3	964.2	964.2
17.5°	978.8	977.4	974.6	971.2	969.8
20°	989.3	987.9	983.0	977.4	974.6
22.5°	1001.1	998.3	992.0	984.4	981.6
25°	1015.0	1010.8	1001.8	991.4	987.2
27.5°	1027.6	1022.0	1010.8	999.0	992.0
30°	1040.8	1033.8	1019.2	1003.9	996.9
32.5°	1051.2	1044.3	1025.5	1008.1	999.0
35°	1061.0	1051.9	1030.3	1008.8	999.0
37.5°	1065.1	1055.4	1030.3	1005.3	992.7
40°	1063.8	1053.3	1025.5	996.9	982.3
42.5°	1056.8	1044.3	1014.3	982.3	965.6
45°	1041.5	1027.6	995.5	961.4	944.7
47.5°	1015.0	1001.1	967.0	930.8	910.6
50°	980.2	965.6	933.6	893.2	872.3
52.5°	936.4	921.7	888.3	847.2	827.1
55°	884.1	868.8	836.1	797.1	776.2
57.5°	820.1	809.0	776.9	740.0	719.8
60°	754.7	743.5	714.3	679.5	659.3
62.5°	684.3	675.3	648.8	616.1	598.7
65°	610.5	603.6	581.3	551.4	535.4
67.5°	535.4	532.6	512.4	486.6	472.7
70°	460.2	461.6	444.9	421.9	410.0
72.5°	387.1	391.9	378.7	359.9	351.6
75°	318.8	326.5	316.8	302.1	293.8
77.5°	255.5	265.9	257.6	246.4	239.5
80°	207.5	206.8	203.3	194.9	188.7
82.5°	149.0	151.8	149.7	144.8	141.3
85°	96.8	101.6	100.9	98.9	94.7
87.5°	48.0	53.6	54.3	52.9	50.8
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	15.2	17.0	15.6	17.3	17.6	14.6	16.3	14.9	16.6	16.9
	3H	17.0	18.6	17.4	18.9	19.3	16.3	17.9	16.7	18.2	18.6
	4H	17.7	19.2	18.1	19.5	19.9	17.0	18.5	17.4	18.9	19.2
	6H	18.2	19.6	18.6	20.0	20.4	17.6	19.0	18.0	19.3	19.7
	8H	18.4	19.8	18.9	20.1	20.5	17.8	19.1	18.2	19.5	19.9
	12H	18.6	19.8	19.0	20.2	20.7	18.0	19.2	18.4	19.6	20.0
4H	2H	15.8	17.3	16.2	17.7	18.0	15.3	16.8	15.7	17.1	17.5
	3H	17.9	19.1	18.3	19.5	19.9	17.3	18.6	17.7	19.0	19.4
	4H	18.7	19.8	19.1	20.2	20.7	18.1	19.3	18.5	19.7	20.1
	6H	19.4	20.4	19.8	20.8	21.3	18.8	19.8	19.3	20.2	20.7
	8H	19.6	20.6	20.1	21.0	21.5	19.1	20.0	19.5	20.5	20.9
	12H	19.8	20.7	20.3	21.1	21.6	19.3	20.1	19.8	20.6	21.1
8H	4H	19.0	19.9	19.5	20.4	20.8	18.5	19.4	19.0	19.9	20.3
	6H	19.8	20.6	20.3	21.1	21.6	19.3	20.1	19.8	20.6	21.1
	8H	20.2	20.9	20.7	21.4	21.9	19.7	20.4	20.2	20.9	21.4
	12H	20.5	21.1	21.0	21.6	22.1	20.0	20.6	20.5	21.1	21.7
12H	4H	19.0	19.9	19.5	20.4	20.8	18.6	19.4	19.0	19.9	20.4
	6H	19.9	20.6	20.4	21.1	21.6	19.4	20.2	20.0	20.6	21.1
	8H	20.3	20.9	20.8	21.4	22.0	19.9	20.5	20.4	21.0	21.5











(END OF REPORT)