

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: P1527116

Luminaire Tested: 24CGTX-45-F125-L835

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1527116
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-45-F125-L835
Description: CGTX with F125 Lens Option

Light Source:
Ballast/Driver: -

Summary

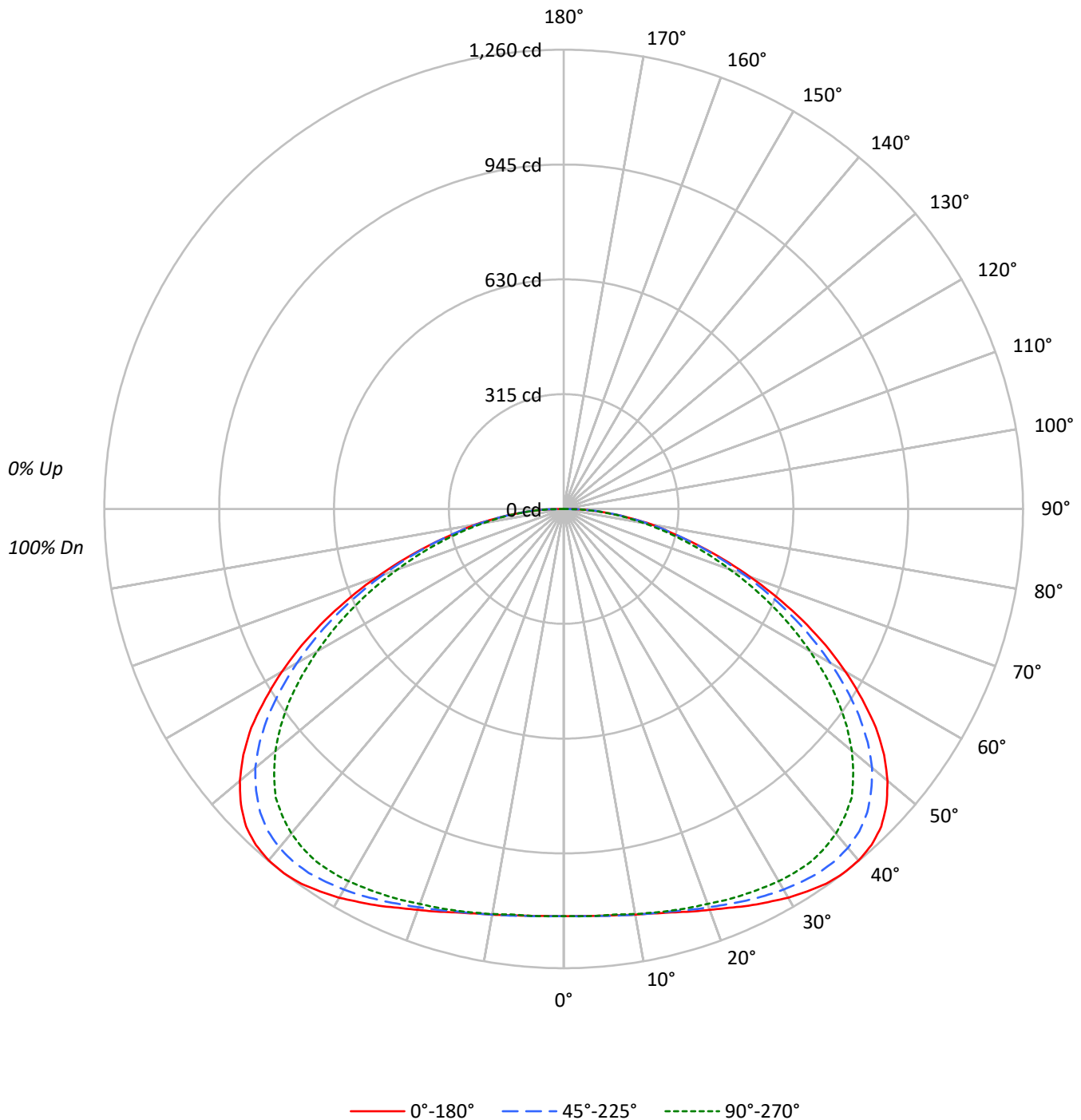
Lumens per Lamp: N/A
Luminaire Lumens: 4723.0 lumens
Efficiency: N/A
Efficacy: 132.7 lumens/watt
Spacing Criteria (0/90/45): 1.69 / 1.6 / 1.72
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 35.6
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

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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°	1503	1503	1503
5°	1513	1514	1513
10°	1544	1544	1542
15°	1596	1592	1589
20°	1676	1665	1651
25°	1783	1760	1734
30°	1913	1873	1833
35°	2062	2002	1941
40°	2211	2131	2041
45°	2345	2241	2127
50°	2427	2312	2160
55°	2454	2320	2154
60°	2403	2274	2099
65°	2300	2190	2017
70°	2142	2070	1908
75°	1961	1948	1807
80°	1902	1863	1729
85°	1768	1843	1729

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 55°

Luminance: 2454 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.3	2.3
10°-20°	324.9	6.9
20°-30°	548.8	11.6
30°-40°	763.4	16.2
40°-50°	903.6	19.1
50°-60°	876.7	18.6
60°-70°	675.5	14.3
70°-80°	394.1	8.3
80°-90°	128.8	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°	980.9	20.8
0°-40°	1744.3	36.9
0°-60°	3524.6	74.6
0°-90°	4723.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4723.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1117	1117	1117	1117	1117	
5°	1120	1121	1121	1121	1120	107
15°	1146	1146	1143	1141	1141	326
25°	1201	1196	1185	1173	1168	556
35°	1255	1244	1219	1194	1182	786
45°	1232	1216	1178	1138	1118	946
55°	1046	1028	989	943	918	929
65°	722	714	688	652	633	713
75°	377	386	375	358	348	404
85°	114	120	119	117	112	128
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1116.9	1116.9	1116.9	1116.9	1116.9
2.5°	1117.7	1118.5	1118.5	1118.5	1118.5
5°	1120.2	1121.0	1121.0	1121.0	1120.2
7.5°	1124.3	1124.3	1125.1	1124.3	1121.8
10°	1130.1	1130.1	1130.1	1129.2	1128.4
12.5°	1136.6	1137.5	1135.8	1135.0	1134.2
15°	1145.7	1145.7	1143.2	1140.8	1140.8
17.5°	1158.1	1156.4	1153.1	1149.0	1147.4
20°	1170.4	1168.8	1163.0	1156.4	1153.1
22.5°	1184.4	1181.1	1173.7	1164.7	1161.4
25°	1200.9	1196.0	1185.2	1172.9	1167.9
27.5°	1215.7	1209.1	1196.0	1182.0	1173.7
30°	1231.4	1223.1	1205.8	1187.7	1179.5
32.5°	1243.7	1235.5	1213.3	1192.7	1182.0
35°	1255.3	1244.5	1219.0	1193.5	1182.0
37.5°	1260.2	1248.7	1219.0	1189.4	1174.5
40°	1258.6	1246.2	1213.3	1179.5	1162.2
42.5°	1250.3	1235.5	1200.1	1162.2	1142.4
45°	1232.2	1215.7	1177.8	1137.5	1117.7
47.5°	1200.9	1184.4	1144.1	1101.2	1077.3
50°	1159.7	1142.4	1104.5	1056.8	1032.0
52.5°	1107.8	1090.5	1051.0	1002.4	978.5
55°	1046.0	1027.9	989.2	943.1	918.4
57.5°	970.3	957.1	919.2	875.5	851.7
60°	892.8	879.7	845.1	803.9	780.0
62.5°	809.7	798.9	767.7	728.9	708.3
65°	722.3	714.1	687.8	652.3	633.4
67.5°	633.4	630.1	606.2	575.7	559.3
70°	544.4	546.1	526.3	499.1	485.1
72.5°	458.0	463.7	448.1	425.8	415.9
75°	377.2	386.3	374.8	357.5	347.6
77.5°	302.3	314.6	304.8	291.6	283.3
80°	245.5	244.6	240.5	230.6	223.2
82.5°	176.3	179.6	177.1	171.3	167.2
85°	114.5	120.3	119.4	117.0	112.0
87.5°	56.8	63.4	64.2	62.6	60.1
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	15.8	17.5	16.2	17.9	18.2	15.1	16.9	15.5	17.2	17.5
	3H	17.6	19.2	18.0	19.5	19.9	16.9	18.5	17.3	18.8	19.2
	4H	18.3	19.8	18.7	20.1	20.5	17.6	19.1	18.0	19.5	19.8
	6H	18.8	20.2	19.2	20.6	21.0	18.2	19.6	18.6	19.9	20.3
	8H	19.0	20.3	19.4	20.7	21.1	18.4	19.7	18.8	20.1	20.5
	12H	19.2	20.4	19.6	20.8	21.2	18.5	19.8	19.0	20.2	20.6
4H	2H	16.4	17.9	16.8	18.2	18.6	15.9	17.4	16.3	17.7	18.1
	3H	18.5	19.7	18.9	20.1	20.5	17.9	19.1	18.3	19.5	19.9
	4H	19.3	20.4	19.7	20.8	21.3	18.7	19.8	19.1	20.3	20.7
	6H	19.9	21.0	20.4	21.4	21.8	19.4	20.4	19.8	20.8	21.3
	8H	20.2	21.1	20.7	21.6	22.0	19.7	20.6	20.1	21.0	21.5
	12H	20.4	21.3	20.9	21.7	22.2	19.9	20.7	20.4	21.2	21.7
8H	4H	19.6	20.5	20.0	21.0	21.4	19.1	20.0	19.5	20.5	20.9
	6H	20.4	21.2	20.9	21.7	22.2	19.9	20.7	20.4	21.2	21.7
	8H	20.7	21.5	21.3	22.0	22.4	20.3	21.0	20.8	21.5	22.0
	12H	21.0	21.7	21.6	22.2	22.7	20.6	21.2	21.1	21.7	22.3
12H	4H	19.6	20.5	20.1	21.0	21.4	19.1	20.0	19.6	20.5	20.9
	6H	20.5	21.2	21.0	21.7	22.2	20.0	20.7	20.5	21.2	21.7
	8H	20.9	21.5	21.4	22.0	22.6	20.4	21.1	20.9	21.6	22.1













(END OF REPORT)