

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: P1527041

Luminaire Tested: 22CGTX-45-F125-L850

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1527041
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2507-496-2)
Test Lab: INNOVATION CENTER
Issue Date: 8/24/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 22CGTX-45-F125-L850
Description: CGTX with F125 Lens Option

Light Source:
Ballast/Driver: -

Summary

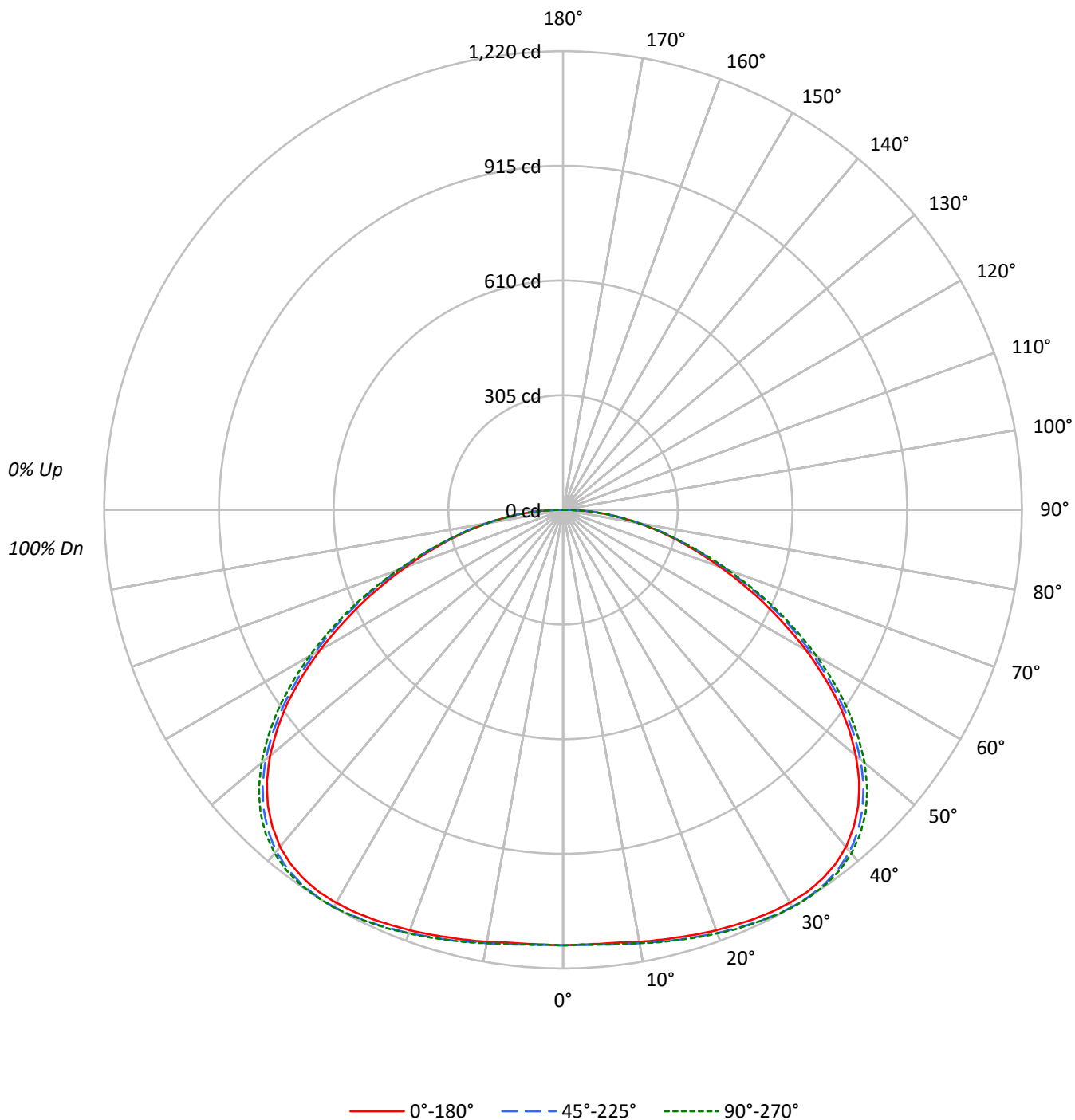
Lumens per Lamp: N/A
Luminaire Lumens: 4497.0 lumens
Efficiency: N/A
Efficacy: 124.6 lumens/watt
Spacing Criteria (0/90/45): 1.56 / 1.58 / 1.65
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 36.1
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		0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102		100
1	108	103	98	94	105	101	97	93	96	93	90		92	90	87		89	87	84		82
2	98	89	82	76	95	87	80	75	83	78	73		80	75	71		77	73	70		67
3	89	77	69	62	86	76	68	61	73	66	60		70	64	59		67	62	58		56
4	81	68	59	52	78	67	58	51	64	57	51		62	55	50		59	54	49		47
5	74	60	51	44	72	59	50	44	57	49	43		55	48	43		53	47	42		40
6	68	54	45	38	66	53	44	38	51	43	37		49	42	37		48	41	37		34
7	63	49	39	33	61	48	39	33	46	38	33		45	38	32		43	37	32		30
8	58	44	35	29	57	43	35	29	42	34	29		41	34	29		39	33	28		26
9	54	40	32	26	53	40	31	26	38	31	26		37	30	26		36	30	25		24
10	51	37	29	23	49	36	29	23	35	28	23		34	28	23		34	27	23		21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3117	3117	3117
5°	3129	3136	3136
10°	3189	3199	3199
15°	3280	3299	3299
20°	3409	3431	3434
25°	3565	3596	3598
30°	3750	3790	3792
35°	3941	3990	3998
40°	4112	4167	4190
45°	4225	4284	4330
50°	4255	4320	4382
55°	4191	4256	4333
60°	4016	4104	4192
65°	3765	3902	3968
70°	3501	3629	3670
75°	3284	3374	3374
80°	3174	3214	3188
85°	3081	3189	3081

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 50°

Luminance: 4382 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.1	2.5
10°-20°	335.7	7.5
20°-30°	559.5	12.4
30°-40°	758.0	16.9
40°-50°	864.5	19.2
50°-60°	808.1	18.0
60°-70°	603.5	13.4
70°-80°	344.6	7.7
80°-90°	111.8	2.5
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°	1006.3	22.4
0°-40°	1764.4	39.2
0°-60°	3437.0	76.4
0°-90°	4497.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4497.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1158	1158	1158	1158	1158	
5°	1158	1160	1161	1162	1161	111
15°	1178	1181	1184	1185	1184	334
25°	1201	1205	1211	1213	1212	556
35°	1200	1206	1214	1218	1217	751
45°	1110	1116	1126	1134	1138	853
55°	893	896	907	918	924	795
65°	591	600	613	616	623	586
75°	316	321	324	325	324	337
85°	100	104	103	102	100	110
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1158.5	1158.5	1158.5	1158.5	1158.5
2.5°	1157.7	1158.5	1158.5	1160.2	1157.7
5°	1158.5	1160.2	1161.1	1162.0	1161.1
7.5°	1161.1	1163.7	1165.4	1166.3	1164.5
10°	1167.1	1168.8	1170.6	1172.3	1170.6
12.5°	1172.3	1174.9	1176.6	1179.2	1178.3
15°	1177.5	1180.9	1184.3	1185.2	1184.3
17.5°	1184.3	1186.9	1190.4	1192.1	1192.1
20°	1190.4	1193.8	1198.1	1199.8	1199.0
22.5°	1195.5	1199.8	1205.0	1207.6	1206.7
25°	1200.7	1205.0	1211.0	1212.7	1211.9
27.5°	1205.0	1210.2	1216.2	1218.8	1217.0
30°	1206.7	1211.9	1219.6	1221.3	1220.5
32.5°	1205.9	1211.0	1218.8	1221.3	1220.5
35°	1199.8	1205.9	1214.5	1217.9	1217.0
37.5°	1188.6	1194.7	1203.3	1207.6	1208.4
40°	1170.6	1176.6	1186.1	1192.1	1192.9
42.5°	1143.9	1149.9	1160.2	1167.1	1169.7
45°	1110.3	1115.5	1125.8	1133.6	1137.9
47.5°	1068.1	1072.4	1083.6	1092.2	1096.5
50°	1016.5	1020.8	1032.0	1040.6	1046.6
52.5°	958.0	961.4	972.6	982.9	988.1
55°	893.4	896.0	907.2	917.5	923.5
57.5°	820.3	828.0	836.6	846.1	853.0
60°	746.2	752.3	762.6	772.1	778.9
62.5°	667.0	678.2	690.3	695.5	701.5
65°	591.3	599.9	612.8	616.3	623.2
67.5°	516.4	525.9	537.1	539.7	544.0
70°	445.0	452.7	461.3	464.8	466.5
72.5°	377.9	383.9	389.9	392.5	392.5
75°	315.9	321.0	324.5	325.3	324.5
77.5°	259.9	260.8	268.5	263.4	262.5
80°	204.8	204.8	207.4	207.4	205.7
82.5°	151.5	154.9	154.1	153.2	150.6
85°	99.8	104.1	103.3	101.6	99.8
87.5°	49.1	54.2	51.6	54.2	49.9
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	17.4	19.1	17.7	19.4	19.7	17.6	19.3	17.9	19.6	19.9
	3H	19.1	20.6	19.4	20.9	21.3	19.3	20.8	19.7	21.2	21.5
	4H	19.7	21.2	20.1	21.5	21.9	19.9	21.4	20.3	21.7	22.1
	6H	20.2	21.6	20.7	22.0	22.4	20.4	21.8	20.8	22.2	22.5
	8H	20.4	21.7	20.9	22.1	22.5	20.6	21.9	21.0	22.3	22.7
	12H	20.6	21.8	21.0	22.2	22.7	20.8	22.0	21.2	22.4	22.8
4H	2H	18.0	19.5	18.4	19.8	20.2	18.2	19.6	18.6	20.0	20.3
	3H	19.9	21.2	20.3	21.6	22.0	20.1	21.3	20.5	21.7	22.1
	4H	20.7	21.8	21.2	22.2	22.7	20.9	22.0	21.3	22.4	22.8
	6H	21.4	22.4	21.8	22.8	23.3	21.5	22.5	22.0	23.0	23.4
	8H	21.6	22.6	22.1	23.0	23.5	21.8	22.7	22.2	23.1	23.6
	12H	21.9	22.7	22.3	23.2	23.6	22.0	22.8	22.5	23.3	23.7
8H	4H	21.1	22.0	21.5	22.4	22.9	21.2	22.1	21.7	22.6	23.0
	6H	21.9	22.6	22.4	23.1	23.6	22.0	22.8	22.5	23.2	23.7
	8H	22.2	22.9	22.7	23.4	23.9	22.3	23.0	22.8	23.5	24.0
	12H	22.5	23.1	23.0	23.6	24.2	22.6	23.2	23.1	23.7	24.3
12H	4H	21.1	21.9	21.6	22.4	22.9	21.2	22.1	21.7	22.5	23.0
	6H	22.0	22.6	22.5	23.1	23.6	22.1	22.8	22.6	23.2	23.8
	8H	22.4	23.0	22.9	23.5	24.0	22.5	23.1	23.0	23.6	24.1















(END OF REPORT)