

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: P1527038

Luminaire Tested: 22CGTX-45-F125-L830

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1527038
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-L830
Description: CGTX with F125 Lens Option

Light Source:
Ballast/Driver: -

Summary

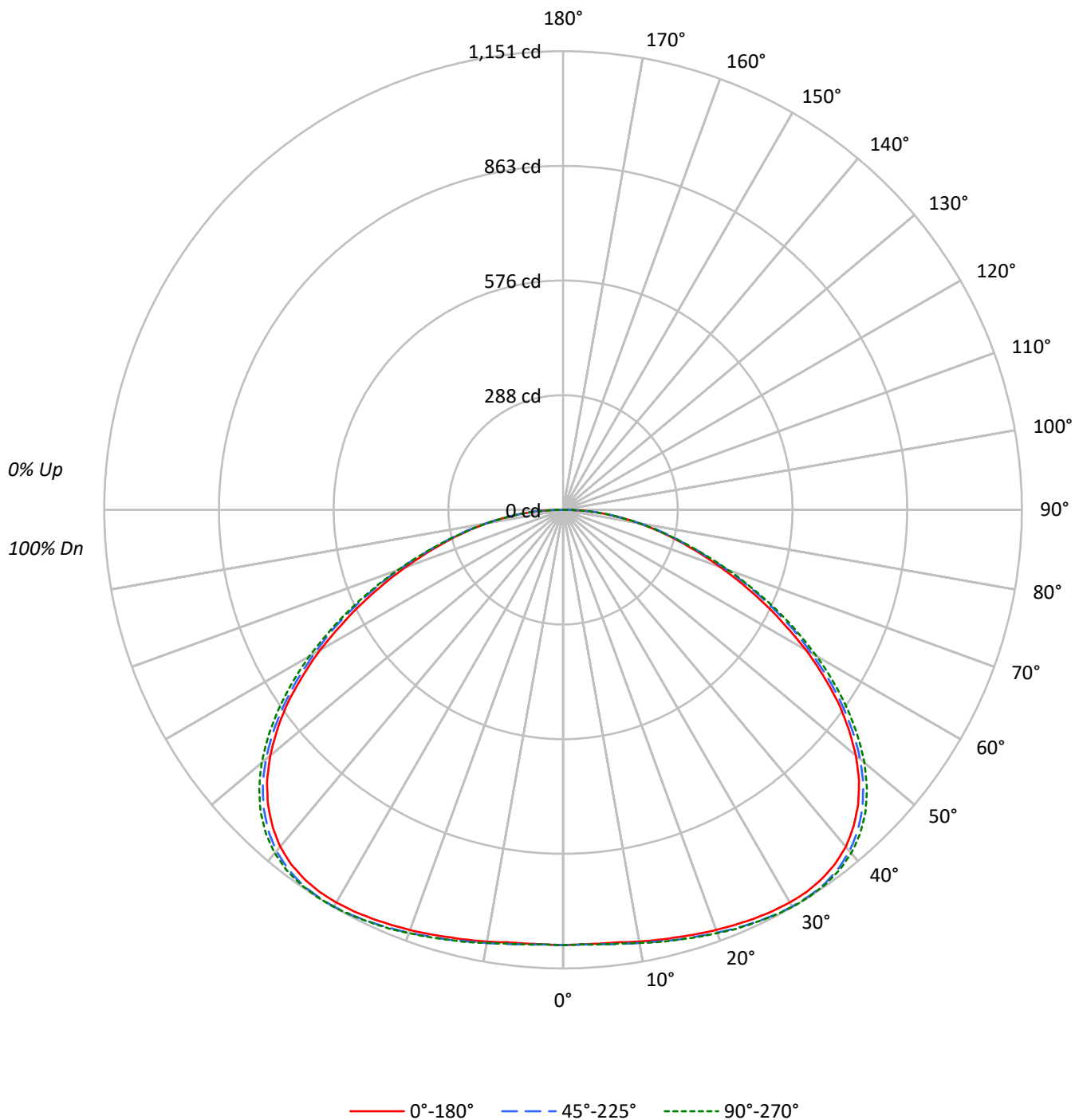
Lumens per Lamp: N/A
Luminaire Lumens: 4240.0 lumens
Efficiency: N/A
Efficacy: 117.5 lumens/watt
Spacing Criteria (0/90/45): 1.56 / 1.58 / 1.65
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1527038

CATALOG NUMBER: 22CGTX-45-F125-L830

Luminous Intensity Polar Plot



TEST NUMBER: P1527038

CATALOG NUMBER: 22CGTX-45-F125-L830

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°	2939	2939	2939
5°	2951	2957	2957
10°	3007	3016	3016
15°	3093	3111	3111
20°	3214	3235	3237
25°	3361	3390	3393
30°	3535	3573	3576
35°	3716	3762	3770
40°	3877	3928	3951
45°	3984	4040	4083
50°	4012	4073	4131
55°	3952	4013	4085
60°	3787	3870	3953
65°	3550	3679	3741
70°	3301	3423	3460
75°	3096	3180	3180
80°	2992	3031	3006
85°	2905	3007	2905

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 50°

Luminance: 4131 cd/sqm

TEST NUMBER: P1527038

CATALOG NUMBER: 22CGTX-45-F125-L830

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.8	2.5
10°-20°	316.5	7.5
20°-30°	527.5	12.4
30°-40°	714.7	16.9
40°-50°	815.1	19.2
50°-60°	762.0	18.0
60°-70°	569.0	13.4
70°-80°	324.9	7.7
80°-90°	105.5	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°	948.8	22.4
0°-40°	1663.5	39.2
0°-60°	3240.6	76.4
0°-90°	4240.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4240.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1092	1092	1092	1092	1092	
5°	1092	1094	1095	1096	1095	105
15°	1110	1113	1117	1118	1117	315
25°	1132	1136	1142	1143	1143	524
35°	1131	1137	1145	1148	1148	708
45°	1047	1052	1062	1069	1073	805
55°	842	845	855	865	871	749
65°	558	566	578	581	588	553
75°	298	303	306	307	306	318
85°	94	98	97	96	94	103
90°	0	0	0	0	0	

TEST NUMBER: P1527038

CATALOG NUMBER: 22CGTX-45-F125-L830

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1092.3	1092.3	1092.3	1092.3	1092.3
2.5°	1091.5	1092.3	1092.3	1093.9	1091.5
5°	1092.3	1093.9	1094.7	1095.6	1094.7
7.5°	1094.7	1097.2	1098.8	1099.6	1098.0
10°	1100.4	1102.0	1103.7	1105.3	1103.7
12.5°	1105.3	1107.7	1109.3	1111.8	1111.0
15°	1110.2	1113.4	1116.7	1117.5	1116.7
17.5°	1116.7	1119.1	1122.3	1124.0	1124.0
20°	1122.3	1125.6	1129.6	1131.3	1130.4
22.5°	1127.2	1131.3	1136.1	1138.6	1137.8
25°	1132.1	1136.1	1141.8	1143.4	1142.6
27.5°	1136.1	1141.0	1146.7	1149.1	1147.5
30°	1137.8	1142.6	1149.9	1151.5	1150.7
32.5°	1136.9	1141.8	1149.1	1151.5	1150.7
35°	1131.3	1136.9	1145.1	1148.3	1147.5
37.5°	1120.7	1126.4	1134.5	1138.6	1139.4
40°	1103.7	1109.3	1118.3	1124.0	1124.8
42.5°	1078.5	1084.2	1093.9	1100.4	1102.9
45°	1046.9	1051.7	1061.5	1068.8	1072.8
47.5°	1007.1	1011.2	1021.7	1029.8	1033.9
50°	958.4	962.5	973.0	981.1	986.8
52.5°	903.2	906.5	917.0	926.8	931.6
55°	842.4	844.8	855.3	865.1	870.8
57.5°	773.4	780.7	788.8	797.7	804.2
60°	703.6	709.3	719.0	727.9	734.4
62.5°	628.9	639.5	650.8	655.7	661.4
65°	557.5	565.6	577.8	581.0	587.5
67.5°	486.9	495.8	506.4	508.8	512.9
70°	419.6	426.9	435.0	438.2	439.8
72.5°	356.3	361.9	367.6	370.1	370.1
75°	297.8	302.7	305.9	306.8	305.9
77.5°	245.1	245.9	253.2	248.3	247.5
80°	193.1	193.1	195.6	195.6	194.0
82.5°	142.8	146.1	145.3	144.5	142.0
85°	94.1	98.2	97.4	95.8	94.1
87.5°	46.3	51.1	48.7	51.1	47.1
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1527038

CATALOG NUMBER: 22CGTX-45-F125-L830

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	17.2	18.9	17.5	19.2	19.5	17.4	19.1	17.7	19.4	19.7
	3H	18.9	20.4	19.2	20.7	21.1	19.1	20.6	19.5	21.0	21.3
	4H	19.5	21.0	19.9	21.3	21.7	19.7	21.2	20.1	21.5	21.9
	6H	20.0	21.4	20.5	21.8	22.2	20.2	21.6	20.6	21.9	22.3
	8H	20.2	21.5	20.7	21.9	22.3	20.4	21.7	20.8	22.1	22.5
	12H	20.4	21.6	20.8	22.0	22.4	20.6	21.8	21.0	22.2	22.6
4H	2H	17.8	19.3	18.2	19.6	20.0	18.0	19.4	18.4	19.8	20.1
	3H	19.7	21.0	20.1	21.4	21.8	19.9	21.1	20.3	21.5	21.9
	4H	20.5	21.6	20.9	22.0	22.5	20.7	21.8	21.1	22.2	22.6
	6H	21.2	22.2	21.6	22.6	23.1	21.3	22.3	21.8	22.7	23.2
	8H	21.4	22.4	21.9	22.8	23.3	21.6	22.5	22.0	22.9	23.4
	12H	21.7	22.5	22.1	23.0	23.4	21.8	22.6	22.3	23.1	23.5
8H	4H	20.9	21.8	21.3	22.2	22.7	21.0	21.9	21.5	22.4	22.8
	6H	21.7	22.4	22.2	22.9	23.4	21.8	22.6	22.3	23.0	23.5
	8H	22.0	22.7	22.5	23.2	23.7	22.1	22.8	22.6	23.3	23.8
	12H	22.3	22.9	22.8	23.4	24.0	22.4	23.0	22.9	23.5	24.1
12H	4H	20.9	21.7	21.4	22.2	22.7	21.0	21.9	21.5	22.3	22.8
	6H	21.8	22.4	22.3	22.9	23.4	21.9	22.6	22.4	23.0	23.6
	8H	22.2	22.8	22.7	23.3	23.8	22.3	22.9	22.8	23.4	23.9













(END OF REPORT)