

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: P1527043

Luminaire Tested: 22CGTX-45HE-F125-L835

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1527043
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-45HE-F125-L835
Description: CGTX with F125 Lens Option

Light Source:
Ballast/Driver: -

Summary

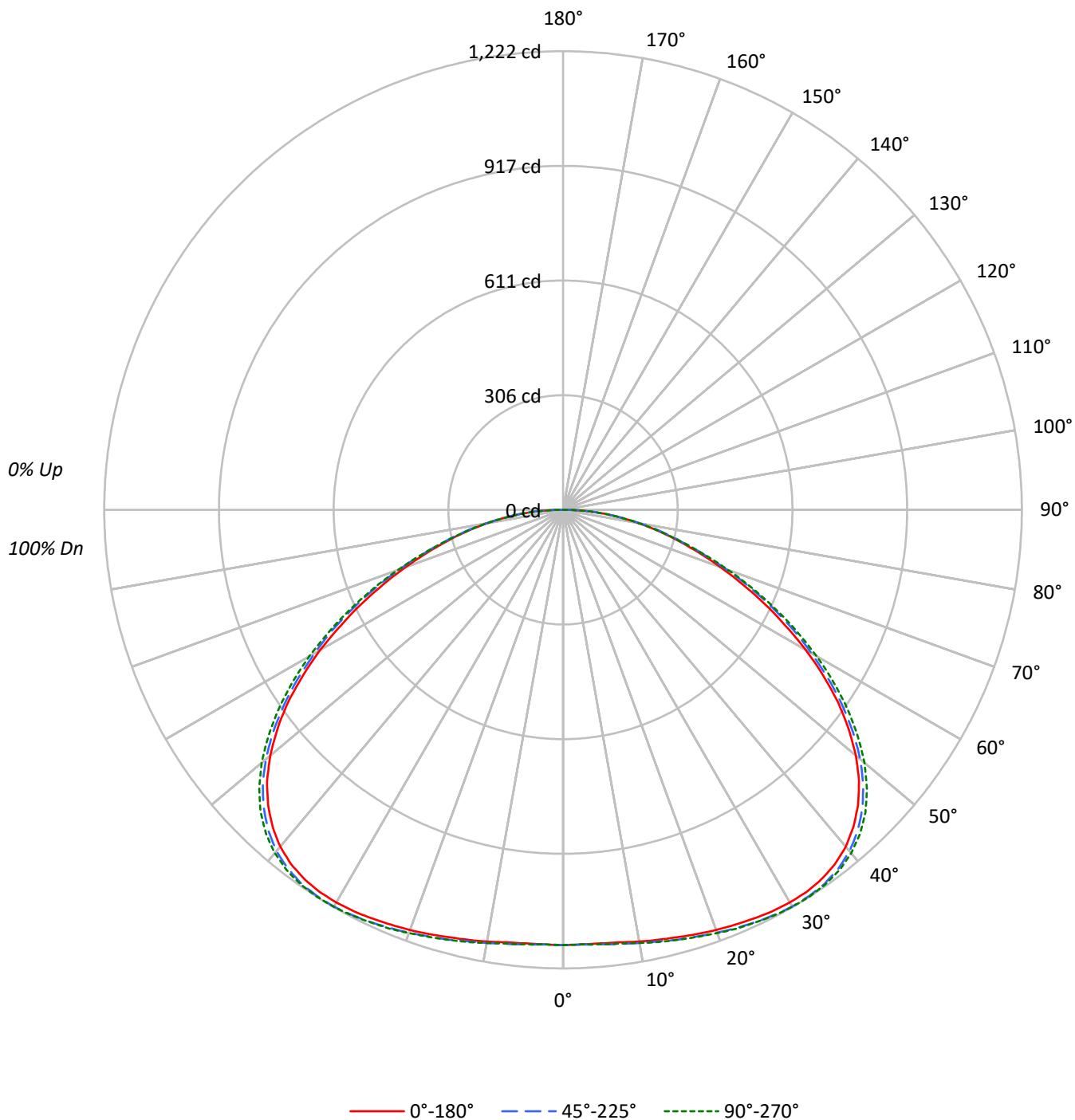
Lumens per Lamp: N/A
Luminaire Lumens: 4501.3 lumens
Efficiency: N/A
Efficacy: 124.3 lumens/watt
Spacing Criteria (0/90/45): 1.56 / 1.58 / 1.65
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 36.2
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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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°	3120	3120	3120
5°	3132	3139	3139
10°	3192	3202	3202
15°	3283	3303	3303
20°	3412	3434	3437
25°	3568	3599	3602
30°	3753	3793	3796
35°	3945	3993	4002
40°	4116	4170	4195
45°	4230	4289	4334
50°	4260	4325	4386
55°	4196	4260	4337
60°	4020	4108	4196
65°	3769	3906	3971
70°	3504	3633	3674
75°	3288	3377	3377
80°	3177	3217	3191
85°	3084	3193	3084

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 50°

Luminance: 4386 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.2	2.5
10°-20°	336.0	7.5
20°-30°	560.0	12.4
30°-40°	758.7	16.9
40°-50°	865.4	19.2
50°-60°	808.9	18.0
60°-70°	604.1	13.4
70°-80°	344.9	7.7
80°-90°	112.0	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°	1007.3	22.4
0°-40°	1766.0	39.2
0°-60°	3440.3	76.4
0°-90°	4501.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4501.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1160	1160	1160	1160	1160	
5°	1160	1161	1162	1163	1162	111
15°	1179	1182	1186	1186	1186	335
25°	1202	1206	1212	1214	1213	556
35°	1201	1207	1216	1219	1218	751
45°	1111	1116	1127	1135	1139	854
55°	894	897	908	918	924	795
65°	592	600	613	617	624	587
75°	316	321	325	326	325	338
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°	1159.6	1159.6	1159.6	1159.6	1159.6
2.5°	1158.8	1159.6	1159.6	1161.3	1158.8
5°	1159.6	1161.3	1162.2	1163.1	1162.2
7.5°	1162.2	1164.8	1166.5	1167.4	1165.6
10°	1168.2	1170.0	1171.7	1173.4	1171.7
12.5°	1173.4	1176.0	1177.7	1180.3	1179.4
15°	1178.6	1182.0	1185.5	1186.3	1185.5
17.5°	1185.5	1188.0	1191.5	1193.2	1193.2
20°	1191.5	1194.9	1199.2	1201.0	1200.1
22.5°	1196.7	1201.0	1206.1	1208.7	1207.9
25°	1201.8	1206.1	1212.2	1213.9	1213.0
27.5°	1206.1	1211.3	1217.3	1219.9	1218.2
30°	1207.9	1213.0	1220.8	1222.5	1221.6
32.5°	1207.0	1212.2	1219.9	1222.5	1221.6
35°	1201.0	1207.0	1215.6	1219.1	1218.2
37.5°	1189.8	1195.8	1204.4	1208.7	1209.6
40°	1171.7	1177.7	1187.2	1193.2	1194.1
42.5°	1145.0	1151.0	1161.3	1168.2	1170.8
45°	1111.4	1116.5	1126.9	1134.6	1138.9
47.5°	1069.2	1073.5	1084.7	1093.3	1097.6
50°	1017.5	1021.8	1033.0	1041.6	1047.6
52.5°	958.9	962.3	973.5	983.9	989.0
55°	894.3	896.8	908.0	918.4	924.4
57.5°	821.0	828.8	837.4	846.9	853.8
60°	746.9	753.0	763.3	772.8	779.7
62.5°	667.7	678.9	690.9	696.1	702.1
65°	591.9	600.5	613.4	616.9	623.7
67.5°	516.9	526.4	537.6	540.2	544.5
70°	445.4	453.2	461.8	465.2	466.9
72.5°	378.2	384.2	390.3	392.9	392.9
75°	316.2	321.3	324.8	325.7	324.8
77.5°	260.2	261.0	268.8	263.6	262.8
80°	205.0	205.0	207.6	207.6	205.9
82.5°	151.6	155.1	154.2	153.4	150.8
85°	99.9	104.2	103.4	101.7	99.9
87.5°	49.1	54.3	51.7	54.3	50.0
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	17.8	19.4	19.7	17.6	19.3	17.9	19.6	19.9
	3H	19.1	20.6	19.5	21.0	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	20.3	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	20.4
	3H	19.9	21.2	20.4	21.6	22.0	20.1	21.3	20.5	21.7	22.1
	4H	20.7	21.8	21.2	22.3	22.7	20.9	22.0	21.3	22.4	22.9
	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	23.8
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	21.3	22.1	21.7	22.6	23.0
	6H	22.0	22.7	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)