

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: P1527044

Luminaire Tested: 22CGTX-45HE-F125-L840

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1527044
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-L840
Description: CGTX with F125 Lens Option

Light Source:
Ballast/Driver: -

Summary

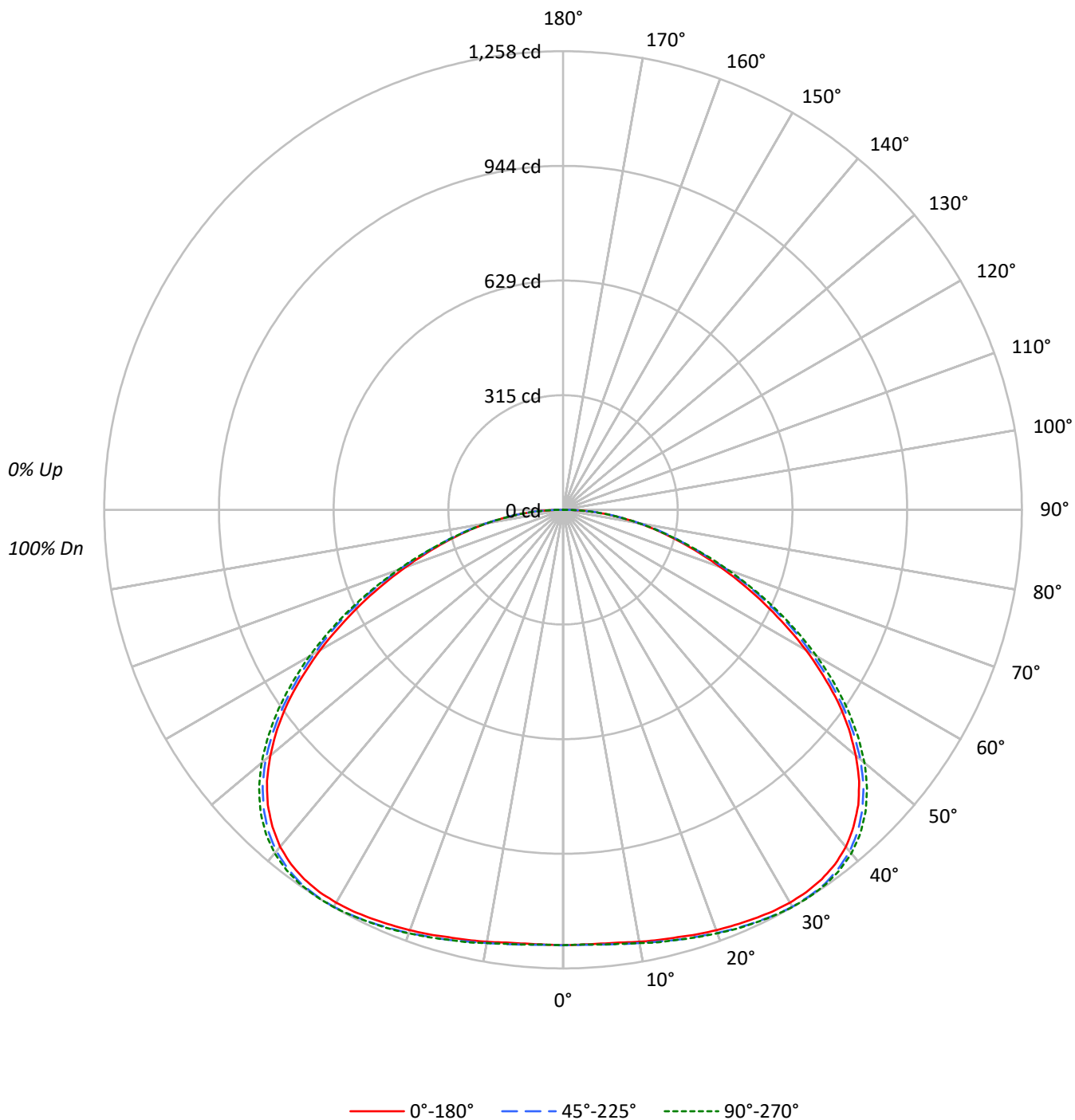
Lumens per Lamp: N/A
Luminaire Lumens: 4636.0 lumens
Efficiency: N/A
Efficacy: 128.1 lumens/watt
Spacing Criteria (0/90/45): 1.56 / 1.58 / 1.65
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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			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°	3214	3214	3214
5°	3226	3233	3233
10°	3288	3297	3297
15°	3382	3401	3401
20°	3514	3537	3540
25°	3675	3707	3709
30°	3865	3907	3910
35°	4063	4113	4122
40°	4239	4295	4320
45°	4356	4417	4464
50°	4387	4454	4517
55°	4321	4388	4467
60°	4140	4231	4322
65°	3882	4023	4090
70°	3609	3742	3784
75°	3385	3478	3478
80°	3273	3313	3287
85°	3177	3288	3177

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 50°

Luminance: 4517 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.5	2.5
10°-20°	346.1	7.5
20°-30°	576.8	12.4
30°-40°	781.5	16.9
40°-50°	891.3	19.2
50°-60°	833.1	18.0
60°-70°	622.2	13.4
70°-80°	355.2	7.7
80°-90°	115.3	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°	1037.4	22.4
0°-40°	1818.9	39.2
0°-60°	3543.3	76.4
0°-90°	4636.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4636.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1194	1194	1194	1194	1194	
5°	1194	1196	1197	1198	1197	114
15°	1214	1217	1221	1222	1221	345
25°	1238	1242	1248	1250	1249	573
35°	1237	1243	1252	1256	1255	774
45°	1145	1150	1161	1169	1173	880
55°	921	924	935	946	952	819
65°	610	618	632	635	642	604
75°	326	331	334	335	334	348
85°	103	107	106	105	103	113
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1194.3	1194.3	1194.3	1194.3	1194.3
2.5°	1193.4	1194.3	1194.3	1196.1	1193.4
5°	1194.3	1196.1	1197.0	1197.9	1197.0
7.5°	1197.0	1199.6	1201.4	1202.3	1200.5
10°	1203.2	1205.0	1206.7	1208.5	1206.7
12.5°	1208.5	1211.2	1213.0	1215.6	1214.7
15°	1213.8	1217.4	1220.9	1221.8	1220.9
17.5°	1220.9	1223.6	1227.2	1228.9	1228.9
20°	1227.2	1230.7	1235.1	1236.9	1236.0
22.5°	1232.5	1236.9	1242.2	1244.9	1244.0
25°	1237.8	1242.2	1248.5	1250.2	1249.3
27.5°	1242.2	1247.6	1253.8	1256.4	1254.7
30°	1244.0	1249.3	1257.3	1259.1	1258.2
32.5°	1243.1	1248.5	1256.4	1259.1	1258.2
35°	1236.9	1243.1	1252.0	1255.5	1254.7
37.5°	1225.4	1231.6	1240.5	1244.9	1245.8
40°	1206.7	1213.0	1222.7	1228.9	1229.8
42.5°	1179.2	1185.5	1196.1	1203.2	1205.9
45°	1144.6	1150.0	1160.6	1168.6	1173.0
47.5°	1101.2	1105.6	1117.1	1126.0	1130.4
50°	1047.9	1052.4	1063.9	1072.8	1079.0
52.5°	987.6	991.1	1002.7	1013.3	1018.6
55°	921.0	923.7	935.2	945.9	952.1
57.5°	845.6	853.6	862.5	872.2	879.3
60°	769.3	775.5	786.2	795.9	803.0
62.5°	687.7	699.2	711.6	716.9	723.2
65°	609.6	618.5	631.8	635.3	642.4
67.5°	532.4	542.1	553.7	556.3	560.8
70°	458.7	466.7	475.6	479.1	480.9
72.5°	389.5	395.7	402.0	404.6	404.6
75°	325.6	331.0	334.5	335.4	334.5
77.5°	268.0	268.9	276.8	271.5	270.6
80°	211.2	211.2	213.8	213.8	212.1
82.5°	156.2	159.7	158.8	157.9	155.3
85°	102.9	107.4	106.5	104.7	102.9
87.5°	50.6	55.9	53.2	55.9	51.5
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	17.5	19.2	17.9	19.5	19.8	17.7	19.4	18.0	19.7	20.0
	3H	19.2	20.7	19.6	21.1	21.4	19.4	20.9	19.8	21.3	21.6
	4H	19.8	21.3	20.2	21.6	22.0	20.0	21.5	20.4	21.8	22.2
	6H	20.4	21.7	20.8	22.1	22.5	20.5	21.9	20.9	22.3	22.6
	8H	20.6	21.9	21.0	22.2	22.6	20.7	22.0	21.1	22.4	22.8
	12H	20.7	21.9	21.1	22.3	22.8	20.9	22.1	21.3	22.5	22.9
4H	2H	18.1	19.6	18.5	19.9	20.3	18.3	19.7	18.7	20.1	20.5
	3H	20.0	21.3	20.5	21.7	22.1	20.2	21.4	20.6	21.8	22.2
	4H	20.8	21.9	21.3	22.4	22.8	21.0	22.1	21.4	22.5	23.0
	6H	21.5	22.5	21.9	22.9	23.4	21.6	22.6	22.1	23.1	23.5
	8H	21.8	22.7	22.2	23.1	23.6	21.9	22.8	22.3	23.2	23.7
	12H	22.0	22.8	22.4	23.3	23.7	22.1	22.9	22.6	23.4	23.9
8H	4H	21.2	22.1	21.6	22.5	23.0	21.3	22.2	21.8	22.7	23.1
	6H	22.0	22.7	22.5	23.2	23.7	22.1	22.9	22.6	23.3	23.8
	8H	22.3	23.0	22.8	23.5	24.0	22.4	23.1	22.9	23.6	24.1
	12H	22.6	23.2	23.1	23.7	24.3	22.7	23.3	23.2	23.8	24.4
12H	4H	21.2	22.0	21.7	22.5	23.0	21.4	22.2	21.8	22.7	23.1
	6H	22.1	22.8	22.6	23.2	23.7	22.2	22.9	22.7	23.3	23.9
	8H	22.5	23.1	23.0	23.6	24.1	22.6	23.2	23.1	23.7	24.2











(END OF REPORT)