

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: P1527042

Luminaire Tested: 22CGTX-45HE-F125-L830

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1527042
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-L830
Description: CGTX with F125 Lens Option

Light Source:
Ballast/Driver: -

Summary

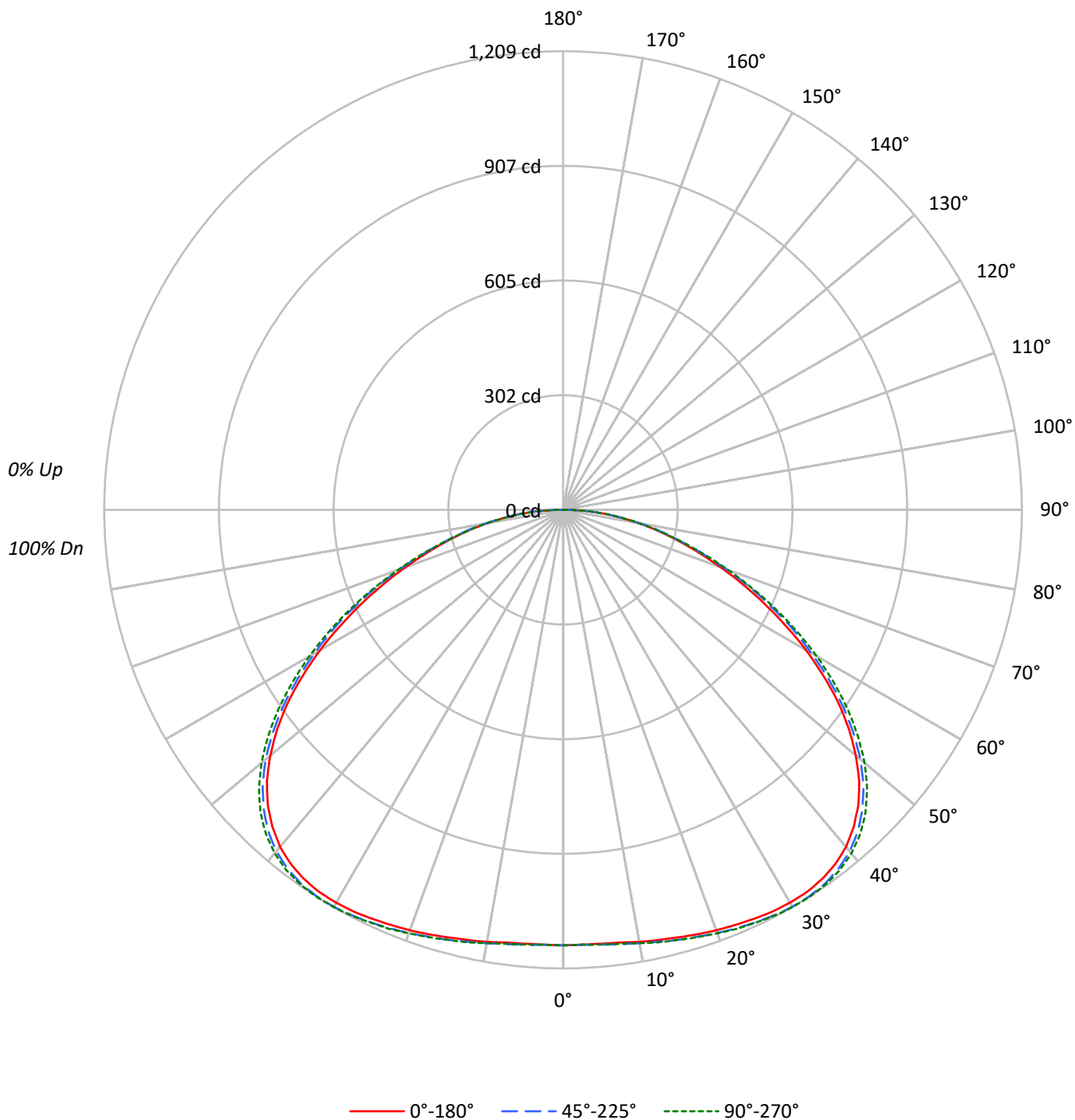
Lumens per Lamp: N/A
Luminaire Lumens: 4456.0 lumens
Efficiency: N/A
Efficacy: 123.1 lumens/watt
Spacing Criteria (0/90/45): 1.56 / 1.58 / 1.65
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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				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°	3089	3089	3089
5°	3101	3108	3108
10°	3160	3169	3169
15°	3250	3269	3269
20°	3378	3400	3402
25°	3532	3563	3565
30°	3715	3755	3758
35°	3906	3953	3961
40°	4075	4128	4153
45°	4187	4245	4291
50°	4217	4281	4342
55°	4153	4217	4293
60°	3979	4067	4154
65°	3731	3866	3932
70°	3469	3596	3637
75°	3254	3343	3343
80°	3146	3185	3158
85°	3054	3159	3054

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 50°

Luminance: 4342 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.1	2.5
10°-20°	332.7	7.5
20°-30°	554.4	12.4
30°-40°	751.1	16.9
40°-50°	856.7	19.2
50°-60°	800.8	18.0
60°-70°	598.0	13.4
70°-80°	341.4	7.7
80°-90°	110.8	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°	997.2	22.4
0°-40°	1748.3	39.2
0°-60°	3405.7	76.4
0°-90°	4456.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4456.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1148	1148	1148	1148	1148	
5°	1148	1150	1150	1151	1150	110
15°	1167	1170	1174	1174	1174	331
25°	1190	1194	1200	1202	1201	551
35°	1189	1195	1203	1207	1206	744
45°	1100	1105	1116	1123	1128	846
55°	885	888	899	909	915	787
65°	586	594	607	611	618	581
75°	313	318	322	322	322	334
85°	99	103	102	101	99	109
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1148.0	1148.0	1148.0	1148.0	1148.0
2.5°	1147.1	1148.0	1148.0	1149.7	1147.1
5°	1148.0	1149.7	1150.5	1151.4	1150.5
7.5°	1150.5	1153.1	1154.8	1155.6	1153.9
10°	1156.5	1158.2	1159.9	1161.6	1159.9
12.5°	1161.6	1164.2	1165.9	1168.4	1167.6
15°	1166.7	1170.1	1173.5	1174.4	1173.5
17.5°	1173.5	1176.1	1179.5	1181.2	1181.2
20°	1179.5	1182.9	1187.2	1188.9	1188.0
22.5°	1184.6	1188.9	1194.0	1196.6	1195.7
25°	1189.7	1194.0	1200.0	1201.7	1200.8
27.5°	1194.0	1199.1	1205.1	1207.7	1205.9
30°	1195.7	1200.8	1208.5	1210.2	1209.4
32.5°	1194.9	1200.0	1207.7	1210.2	1209.4
35°	1188.9	1194.9	1203.4	1206.8	1205.9
37.5°	1177.8	1183.8	1192.3	1196.6	1197.4
40°	1159.9	1165.9	1175.2	1181.2	1182.1
42.5°	1133.5	1139.4	1149.7	1156.5	1159.0
45°	1100.2	1105.3	1115.5	1123.2	1127.5
47.5°	1058.4	1062.7	1073.8	1082.3	1086.5
50°	1007.2	1011.5	1022.6	1031.1	1037.1
52.5°	949.2	952.6	963.7	974.0	979.1
55°	885.3	887.8	898.9	909.2	915.1
57.5°	812.8	820.5	829.0	838.4	845.2
60°	739.4	745.4	755.6	765.0	771.8
62.5°	661.0	672.1	684.0	689.1	695.1
65°	585.9	594.4	607.2	610.6	617.5
67.5°	511.7	521.1	532.2	534.7	539.0
70°	440.9	448.6	457.1	460.5	462.3
72.5°	374.4	380.4	386.3	388.9	388.9
75°	313.0	318.1	321.5	322.4	321.5
77.5°	257.6	258.4	266.1	261.0	260.1
80°	203.0	203.0	205.5	205.5	203.8
82.5°	150.1	153.5	152.7	151.8	149.3
85°	98.9	103.2	102.3	100.6	98.9
87.5°	48.6	53.7	51.2	53.7	49.5
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	17.4	19.1	17.7	19.4	19.7	17.5	19.2	17.9	19.5	19.9
	3H	19.0	20.6	19.4	20.9	21.3	19.3	20.8	19.6	21.1	21.5
	4H	19.7	21.1	20.1	21.5	21.9	19.9	21.4	20.3	21.7	22.1
	6H	20.2	21.6	20.6	21.9	22.3	20.4	21.8	20.8	22.1	22.5
	8H	20.4	21.7	20.8	22.1	22.5	20.6	21.9	21.0	22.3	22.7
	12H	20.6	21.8	21.0	22.2	22.6	20.7	22.0	21.2	22.4	22.8
4H	2H	18.0	19.5	18.4	19.8	20.2	18.1	19.6	18.5	19.9	20.3
	3H	19.9	21.1	20.3	21.5	21.9	20.1	21.3	20.5	21.7	22.1
	4H	20.7	21.8	21.1	22.2	22.7	20.9	22.0	21.3	22.4	22.8
	6H	21.4	22.3	21.8	22.8	23.2	21.5	22.5	22.0	22.9	23.4
	8H	21.6	22.5	22.1	23.0	23.4	21.7	22.7	22.2	23.1	23.6
	12H	21.8	22.7	22.3	23.1	23.6	21.9	22.8	22.4	23.2	23.7
8H	4H	21.0	21.9	21.5	22.4	22.8	21.2	22.1	21.6	22.5	23.0
	6H	21.8	22.6	22.3	23.1	23.6	22.0	22.7	22.4	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	24.1	22.6	23.2	23.1	23.7	24.2
12H	4H	21.1	21.9	21.6	22.4	22.8	21.2	22.0	21.7	22.5	23.0
	6H	21.9	22.6	22.4	23.1	23.6	22.0	22.7	22.6	23.2	23.7
	8H	22.3	22.9	22.8	23.4	24.0	22.4	23.0	22.9	23.5	24.1













(END OF REPORT)