

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P1053663

Luminaire Tested: 22CGTS-L3C3-3500K-MEDIUM

Issue Date: 7/22/2025

Test Information

Test Method: LM-79-2019
Report Number: P1053663
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2412-301-6)
Test Lab: INNOVATION CENTER
Issue Date: 7/22/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 22CGTS-L3C3-3500K-MEDIUM
Description: 2x2 Selectable Lumens and CCT LED Backlit Panel at 3500K CCT and MEDIUM lumen settings
Light Source: -
Ballast/Driver: -

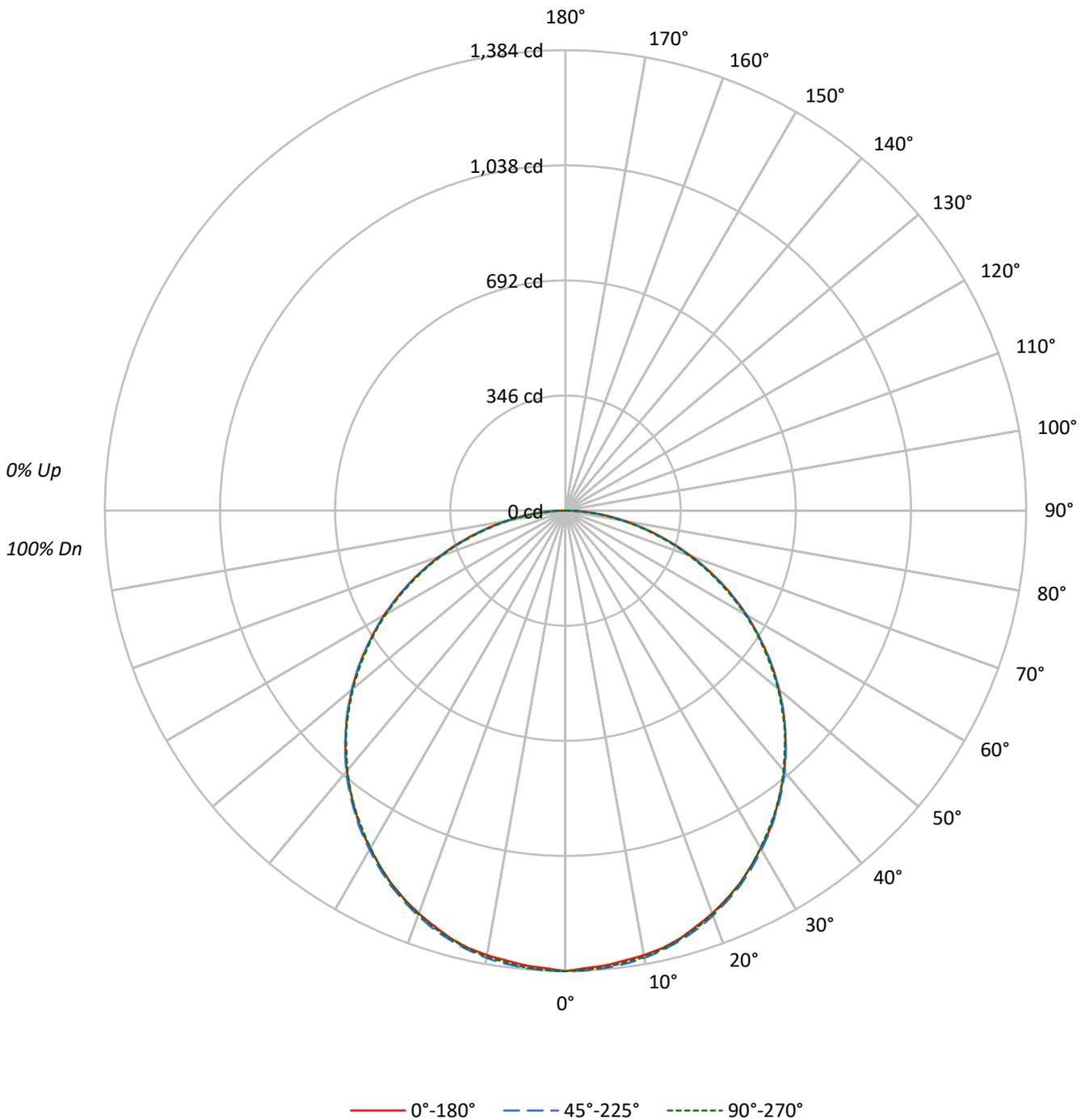
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4048.0 lumens
Efficiency: N/A
Efficacy: 146.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1.81' x L: 1.81' x H: 0')
CIE Type: Direct

Input Watts (W): 27.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
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	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	102	100
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	85	85	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	71	71	71	69
3	90	79	70	64	87	77	69	63	74	68	62	71	66	61	69	64	60	60	60	60	58
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	51	51	51	49
5	75	62	53	46	73	61	52	46	59	51	46	57	50	45	55	49	45	45	45	45	42
6	69	56	47	40	68	55	46	40	53	46	40	51	45	39	50	44	39	39	39	39	37
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	35	35	35	33
8	60	46	38	32	58	46	37	32	44	37	31	43	36	31	42	36	31	31	31	31	29
9	56	42	34	29	55	42	34	28	41	33	28	40	33	28	39	32	28	28	28	28	26
10	52	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	25	25	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4535	4535	4535
5°	4515	4539	4534
10°	4515	4543	4534
15°	4516	4536	4521
20°	4493	4518	4503
25°	4473	4493	4478
30°	4438	4454	4432
35°	4406	4418	4401
40°	4370	4382	4358
45°	4324	4324	4318
50°	4270	4270	4248
55°	4198	4198	4166
60°	4124	4115	4086
65°	4016	3994	3961
70°	3868	3827	3787
75°	3667	3613	3559
80°	3447	3393	3311
85°	3165	3165	3004

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 4344 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.1	3.2
10°-20°	376.8	9.3
20°-30°	571.5	14.1
30°-40°	690.3	17.1
40°-50°	719.7	17.8
50°-60°	655.8	16.2
60°-70°	508.2	12.6
70°-80°	302.4	7.5
80°-90°	92.2	2.3
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°	1079.5	26.7
0°-40°	1769.7	43.7
0°-60°	3145.2	77.7
0°-90°	4048.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4048.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1384	1384	1384	1384	1384	
5°	1373	1380	1380	1380	1378	130
15°	1331	1337	1337	1336	1333	375
25°	1237	1243	1243	1239	1239	570
35°	1102	1107	1104	1102	1100	689
45°	933	938	933	929	932	720
55°	735	738	735	729	729	657
65°	518	518	515	508	511	512
75°	290	290	285	278	281	307
85°	84	84	84	77	80	94
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1384.2	1384.2	1384.2	1384.2	1384.2
2.5°	1377.0	1385.6	1384.2	1382.7	1382.7
5°	1372.7	1379.9	1379.9	1379.9	1378.4
7.5°	1364.2	1374.2	1374.2	1371.3	1369.9
10°	1357.0	1365.6	1365.6	1364.2	1362.7
12.5°	1347.1	1352.8	1352.8	1351.3	1349.9
15°	1331.4	1337.1	1337.1	1335.6	1332.8
17.5°	1309.9	1318.5	1318.5	1314.2	1314.2
20°	1288.5	1297.1	1295.7	1292.8	1291.4
22.5°	1264.3	1271.4	1270.0	1267.1	1265.7
25°	1237.2	1242.9	1242.9	1238.6	1238.6
27.5°	1205.8	1212.9	1211.5	1207.2	1205.8
30°	1173.0	1178.7	1177.2	1173.0	1171.5
32.5°	1140.1	1144.4	1143.0	1137.3	1135.9
35°	1101.6	1107.3	1104.5	1101.6	1100.2
37.5°	1061.7	1067.4	1065.9	1061.7	1061.7
40°	1021.7	1024.6	1024.6	1018.8	1018.8
42.5°	978.9	983.2	980.3	974.6	974.6
45°	933.2	937.5	933.2	929.0	931.8
47.5°	886.1	890.4	887.6	881.9	881.9
50°	837.6	840.5	837.6	833.3	833.3
52.5°	787.7	792.0	787.7	783.4	782.0
55°	734.9	737.7	734.9	729.2	729.2
57.5°	682.1	684.9	680.7	675.0	677.8
60°	629.3	630.7	627.9	620.7	623.6
62.5°	573.6	575.1	570.8	565.1	566.5
65°	518.0	518.0	515.1	508.0	510.9
67.5°	460.9	460.9	458.1	450.9	453.8
70°	403.8	403.8	399.5	393.8	395.3
72.5°	346.8	346.8	342.5	336.8	339.6
75°	289.7	289.7	285.4	278.3	281.1
77.5°	235.4	235.4	232.6	224.0	226.9
80°	182.7	184.1	179.8	171.2	175.5
82.5°	131.3	131.3	131.3	124.1	125.6
85°	84.2	84.2	84.2	77.1	79.9
87.5°	40.0	40.0	40.0	37.1	37.1
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	17.19	18.85	17.56	19.16	19.48	17.10	18.76	17.47	19.07	19.39
	3H	19.09	20.59	19.46	20.92	21.28	18.97	20.48	19.35	20.80	21.16
	4H	19.82	21.24	20.22	21.58	21.96	19.69	21.10	20.08	21.45	21.82
	6H	20.39	21.70	20.80	22.07	22.46	20.23	21.54	20.64	21.91	22.30
	8H	20.59	21.84	21.01	22.23	22.63	20.42	21.67	20.84	22.06	22.46
	12H	20.73	21.93	21.16	22.31	22.74	20.55	21.75	20.98	22.13	22.56
4H	2H	17.85	19.26	18.24	19.61	19.98	17.77	19.19	18.17	19.54	19.91
	3H	19.97	21.16	20.38	21.55	21.95	19.87	21.06	20.27	21.45	21.85
	4H	20.83	21.91	21.27	22.33	22.76	20.70	21.78	21.13	22.19	22.63
	6H	21.55	22.49	22.00	22.93	23.38	21.37	22.32	21.83	22.76	23.21
	8H	21.80	22.68	22.26	23.12	23.59	21.61	22.50	22.07	22.94	23.40
	12H	21.99	22.79	22.47	23.26	23.73	21.80	22.59	22.27	23.07	23.54
8H	4H	21.17	22.06	21.63	22.50	22.96	21.05	21.94	21.51	22.38	22.84
	6H	22.02	22.76	22.51	23.24	23.72	21.85	22.59	22.35	23.08	23.55
	8H	22.35	23.02	22.86	23.52	24.01	22.17	22.83	22.68	23.34	23.82
	12H	22.64	23.23	23.14	23.71	24.27	22.43	23.02	22.94	23.51	24.07
12H	4H	21.21	22.01	21.69	22.48	22.95	21.10	21.90	21.58	22.37	22.84
	6H	22.09	22.75	22.59	23.26	23.74	21.93	22.60	22.44	23.10	23.59
	8H	22.49	23.08	22.99	23.57	24.12	22.31	22.90	22.82	23.39	23.95