

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: P1053670

Luminaire Tested: 24CGTS-L3C3-3500K-HIGH

Issue Date: 7/22/2025

**Test Information**

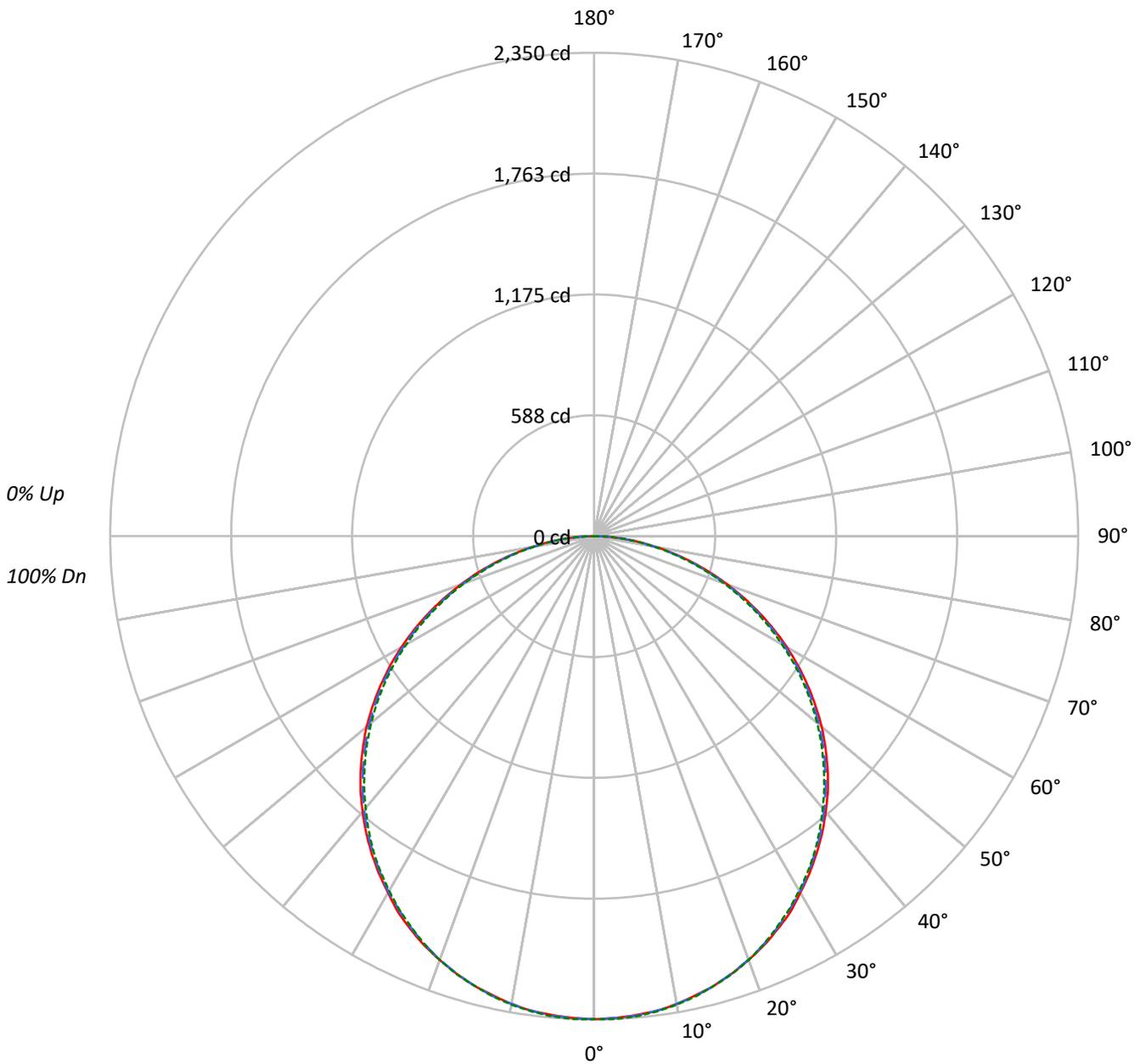
Test Method: LM-79-2019  
Report Number: P1053670  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2412-301-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/22/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 24CGTS-L3C3-3500K-HIGH  
Description: 2x4 Selectable Lumens and CCT LED Backlit Panel at 3500K CCT and HIGH lumen settings  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6876.0 lumens  
Efficiency: N/A  
Efficacy: 135.4 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.26 / 1.38  
Luminous Opening: Rectangular (W 1.81' x L: 3.81' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 50.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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



0% Up  
100% Dn

— 0°-180°    - - 45°-225°    - - - 90°-270°



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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	28	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	30	26	37	30	25	36	30	25	25	25	25	24

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3658	3658	3658
5°	3654	3659	3665
10°	3653	3653	3658
15°	3646	3646	3646
20°	3635	3632	3635
25°	3624	3613	3607
30°	3600	3591	3580
35°	3581	3563	3554
40°	3556	3533	3510
45°	3531	3495	3470
50°	3496	3452	3425
55°	3438	3402	3367
60°	3368	3322	3282
65°	3267	3226	3184
70°	3144	3093	3056
75°	2985	2926	2877
80°	2748	2689	2646
85°	2491	2432	2375

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 3531 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	222.7	3.2
10°-20°	638.7	9.3
20°-30°	969.7	14.1
30°-40°	1172.5	17.1
40°-50°	1223.8	17.8
50°-60°	1117.3	16.2
60°-70°	864.4	12.6
70°-80°	513.2	7.5
80°-90°	153.7	2.2
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°	1831.1	26.6
0°-40°	3003.5	43.7
0°-60°	5344.6	77.7
0°-90°	6876.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6876.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2348	2348	2348	2348	2348	
5°	2337	2345	2340	2344	2344	222
15°	2261	2264	2261	2266	2261	638
25°	2109	2105	2102	2102	2099	972
35°	1883	1878	1874	1867	1869	1178
45°	1603	1593	1587	1577	1575	1236
55°	1266	1256	1253	1245	1240	1131
65°	886	877	875	867	864	878
75°	496	486	486	478	478	524
85°	139	134	136	138	133	157
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2348.4	2348.4	2348.4	2348.4	2348.4
2.5°	2345.2	2350.1	2345.2	2351.7	2350.1
5°	2337.1	2345.2	2340.3	2343.6	2343.6
7.5°	2327.4	2330.6	2327.4	2333.9	2330.6
10°	2309.5	2316.0	2309.5	2317.6	2312.8
12.5°	2285.2	2291.7	2288.5	2293.3	2290.1
15°	2260.9	2264.2	2260.9	2265.8	2260.9
17.5°	2228.5	2231.7	2226.9	2231.7	2230.1
20°	2192.8	2196.1	2191.2	2194.5	2192.8
22.5°	2154.0	2157.2	2149.1	2150.7	2149.1
25°	2108.6	2105.3	2102.1	2102.1	2098.8
27.5°	2061.6	2056.7	2050.2	2050.2	2047.0
30°	2001.6	2001.6	1996.7	1991.9	1990.3
32.5°	1944.9	1941.6	1936.8	1935.2	1931.9
35°	1883.3	1878.4	1873.6	1867.1	1868.7
37.5°	1818.5	1812.0	1808.7	1800.6	1799.0
40°	1748.8	1743.9	1737.4	1727.7	1726.1
42.5°	1679.1	1671.0	1664.5	1654.8	1653.1
45°	1602.9	1593.2	1586.7	1577.0	1575.4
47.5°	1523.5	1512.1	1507.3	1499.2	1495.9
50°	1442.5	1429.5	1424.6	1414.9	1413.3
52.5°	1354.9	1345.2	1340.3	1329.0	1327.4
55°	1265.8	1256.1	1252.8	1244.7	1239.9
57.5°	1175.0	1165.3	1160.4	1152.3	1147.5
60°	1081.0	1071.3	1066.4	1056.7	1053.5
62.5°	985.4	974.1	972.4	964.3	961.1
65°	886.5	876.8	875.2	867.1	863.8
67.5°	789.3	779.6	778.0	771.5	768.2
70°	690.4	679.1	679.1	672.6	671.0
72.5°	593.2	581.8	581.8	575.4	573.7
75°	495.9	486.2	486.2	478.1	478.1
77.5°	400.3	392.2	393.8	390.6	385.7
80°	306.3	299.8	299.8	298.2	295.0
82.5°	220.4	213.9	215.6	217.2	210.7
85°	139.4	134.5	136.1	137.8	132.9
87.5°	64.8	60.0	63.2	66.4	63.2
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	16.48	18.13	16.84	18.45	18.76	16.38	18.04	16.75	18.35	18.67
	3H	18.36	19.86	18.74	20.19	20.55	18.25	19.75	18.63	20.08	20.44
	4H	19.09	20.51	19.49	20.85	21.23	18.96	20.38	19.36	20.73	21.10
	6H	19.65	20.96	20.06	21.32	21.72	19.51	20.82	19.92	21.19	21.58
	8H	19.84	21.09	20.26	21.48	21.88	19.69	20.95	20.11	21.34	21.73
	12H	19.97	21.18	20.40	21.56	21.99	19.82	21.03	20.25	21.41	21.83
4H	2H	17.13	18.54	17.52	18.89	19.26	17.05	18.47	17.45	18.81	19.19
	3H	19.23	20.42	19.64	20.82	21.22	19.14	20.33	19.55	20.73	21.13
	4H	20.09	21.17	20.52	21.58	22.02	19.98	21.06	20.41	21.48	21.91
	6H	20.78	21.72	21.23	22.16	22.62	20.66	21.61	21.12	22.05	22.50
	8H	21.02	21.90	21.48	22.35	22.81	20.90	21.79	21.36	22.23	22.69
	12H	21.21	22.00	21.68	22.48	22.95	21.08	21.88	21.56	22.35	22.82
8H	4H	20.42	21.31	20.88	21.75	22.21	20.33	21.22	20.79	21.66	22.12
	6H	21.24	21.98	21.73	22.47	22.94	21.14	21.88	21.64	22.37	22.84
	8H	21.56	22.22	22.07	22.73	23.21	21.47	22.13	21.97	22.63	23.12
	12H	21.83	22.41	22.33	22.90	23.46	21.73	22.32	22.24	22.81	23.37
12H	4H	20.46	21.26	20.94	21.74	22.20	20.38	21.17	20.85	21.65	22.12
	6H	21.31	21.97	21.81	22.48	22.96	21.21	21.88	21.72	22.38	22.87
	8H	21.69	22.28	22.20	22.77	23.33	21.60	22.19	22.10	22.68	23.23