

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: P1053661

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

Issue Date: 7/22/2025

**Test Information**

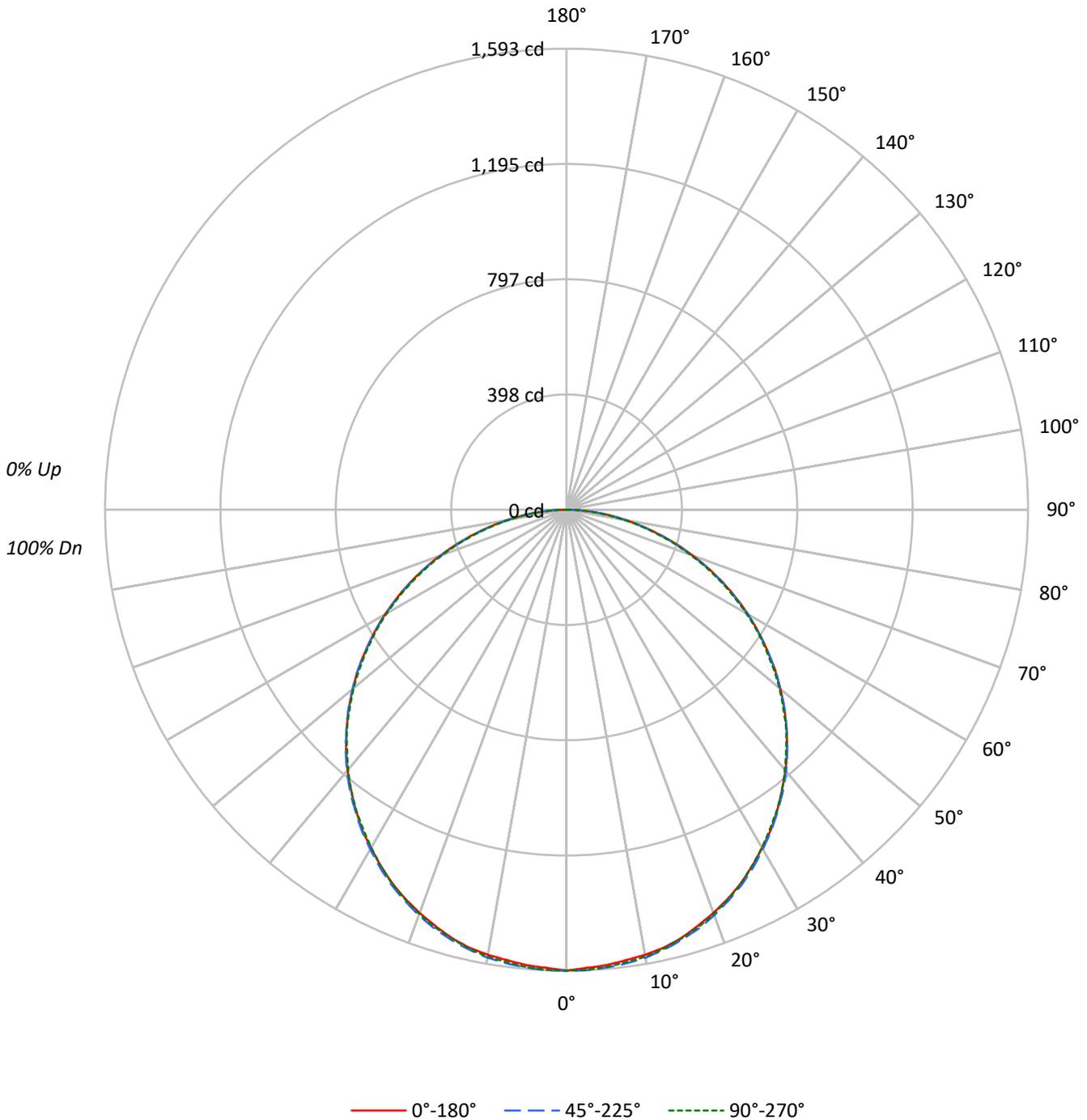
Test Method: LM-79-2019  
Report Number: P1053661  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2412-301-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/22/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 22CGTS-L3C3-3500K-HIGH  
Description: 2x2 Selectable 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: 4658.0 lumens  
Efficiency: N/A  
Efficacy: 144.7 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): 32.2  
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





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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°	5219	5219	5219
5°	5195	5222	5217
10°	5195	5228	5217
15°	5197	5219	5202
20°	5170	5198	5181
25°	5147	5171	5152
30°	5106	5125	5100
35°	5070	5083	5064
40°	5029	5042	5015
45°	4976	4976	4968
50°	4913	4913	4888
55°	4830	4830	4793
60°	4745	4735	4702
65°	4621	4596	4557
70°	4452	4405	4357
75°	4219	4157	4095
80°	3966	3904	3811
85°	3643	3643	3459

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 4999 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	150.9	3.2
10°-20°	433.6	9.3
20°-30°	657.7	14.1
30°-40°	794.3	17.1
40°-50°	828.1	17.8
50°-60°	754.7	16.2
60°-70°	584.8	12.6
70°-80°	348.0	7.5
80°-90°	106.1	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°	1242.1	26.7
0°-40°	2036.4	43.7
0°-60°	3619.2	77.7
0°-90°	4658.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4658.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1593	1593	1593	1593	1593	
5°	1580	1588	1588	1588	1586	150
15°	1532	1538	1538	1537	1534	432
25°	1424	1430	1430	1425	1425	656
35°	1268	1274	1271	1268	1266	793
45°	1074	1079	1074	1069	1072	828
55°	846	849	846	839	839	756
65°	596	596	593	584	588	589
75°	333	333	328	320	324	354
85°	97	97	97	89	92	109
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1592.7	1592.7	1592.7	1592.7	1592.7
2.5°	1584.5	1594.4	1592.7	1591.1	1591.1
5°	1579.6	1587.8	1587.8	1587.8	1586.2
7.5°	1569.7	1581.2	1581.2	1578.0	1576.3
10°	1561.5	1571.4	1571.4	1569.7	1568.1
12.5°	1550.0	1556.6	1556.6	1555.0	1553.3
15°	1532.0	1538.5	1538.5	1536.9	1533.6
17.5°	1507.3	1517.2	1517.2	1512.3	1512.3
20°	1482.7	1492.6	1490.9	1487.6	1486.0
22.5°	1454.8	1463.0	1461.4	1458.1	1456.4
25°	1423.6	1430.2	1430.2	1425.2	1425.2
27.5°	1387.5	1395.7	1394.1	1389.1	1387.5
30°	1349.7	1356.3	1354.6	1349.7	1348.1
32.5°	1312.0	1316.9	1315.2	1308.7	1307.0
35°	1267.6	1274.2	1270.9	1267.6	1266.0
37.5°	1221.6	1228.2	1226.6	1221.6	1221.6
40°	1175.7	1178.9	1178.9	1172.4	1172.4
42.5°	1126.4	1131.3	1128.0	1121.5	1121.5
45°	1073.9	1078.8	1073.9	1068.9	1072.2
47.5°	1019.7	1024.6	1021.3	1014.8	1014.8
50°	963.8	967.1	963.8	958.9	958.9
52.5°	906.4	911.3	906.4	901.5	899.8
55°	845.6	848.9	845.6	839.1	839.1
57.5°	784.9	788.2	783.2	776.7	779.9
60°	724.1	725.8	722.5	714.3	717.6
62.5°	660.1	661.7	656.8	650.2	651.9
65°	596.0	596.0	592.8	584.5	587.8
67.5°	530.4	530.4	527.1	518.9	522.2
70°	464.7	464.7	459.8	453.2	454.8
72.5°	399.0	399.0	394.1	387.5	390.8
75°	333.3	333.3	328.4	320.2	323.5
77.5°	270.9	270.9	267.6	257.8	261.1
80°	210.2	211.8	206.9	197.0	202.0
82.5°	151.1	151.1	151.1	142.9	144.5
85°	96.9	96.9	96.9	88.7	92.0
87.5°	46.0	46.0	46.0	42.7	42.7
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	17.68	19.34	18.05	19.65	19.97	17.59	19.24	17.95	19.56	19.87
	3H	19.58	21.08	19.95	21.40	21.76	19.46	20.96	19.84	21.29	21.65
	4H	20.31	21.72	20.71	22.07	22.45	20.17	21.59	20.57	21.94	22.31
	6H	20.88	22.19	21.29	22.56	22.95	20.72	22.03	21.13	22.39	22.79
	8H	21.07	22.33	21.50	22.72	23.12	20.90	22.16	21.33	22.55	22.95
	12H	21.22	22.42	21.65	22.80	23.23	21.04	22.24	21.47	22.62	23.05
4H	2H	18.33	19.75	18.73	20.10	20.47	18.26	19.68	18.66	20.03	20.40
	3H	20.46	21.65	20.86	22.04	22.44	20.35	21.54	20.76	21.94	22.34
	4H	21.32	22.40	21.75	22.81	23.25	21.19	22.27	21.62	22.68	23.12
	6H	22.03	22.98	22.49	23.42	23.87	21.86	22.81	22.31	23.25	23.70
	8H	22.28	23.17	22.74	23.61	24.08	22.10	22.99	22.56	23.43	23.89
	12H	22.48	23.28	22.96	23.75	24.22	22.28	23.08	22.76	23.56	24.02
8H	4H	21.66	22.54	22.12	22.98	23.45	21.54	22.43	22.00	22.87	23.33
	6H	22.51	23.24	23.00	23.73	24.21	22.34	23.08	22.83	23.57	24.04
	8H	22.84	23.51	23.35	24.01	24.50	22.66	23.32	23.17	23.83	24.31
	12H	23.13	23.71	23.63	24.20	24.76	22.92	23.51	23.43	24.00	24.56
12H	4H	21.70	22.50	22.18	22.97	23.44	21.59	22.39	22.07	22.86	23.33
	6H	22.57	23.24	23.08	23.74	24.23	22.42	23.08	22.93	23.59	24.07
	8H	22.98	23.56	23.48	24.05	24.61	22.80	23.39	23.31	23.88	24.44