

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: P1053662

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

Issue Date: 7/22/2025

Test Information

Test Method: LM-79-2019
Report Number: P1053662
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-LOW
Description: 2x2 Selectable Lumens and CCT LED Backlit Panel at 3500K CCT and LOW lumen settings
Light Source: -
Ballast/Driver: -

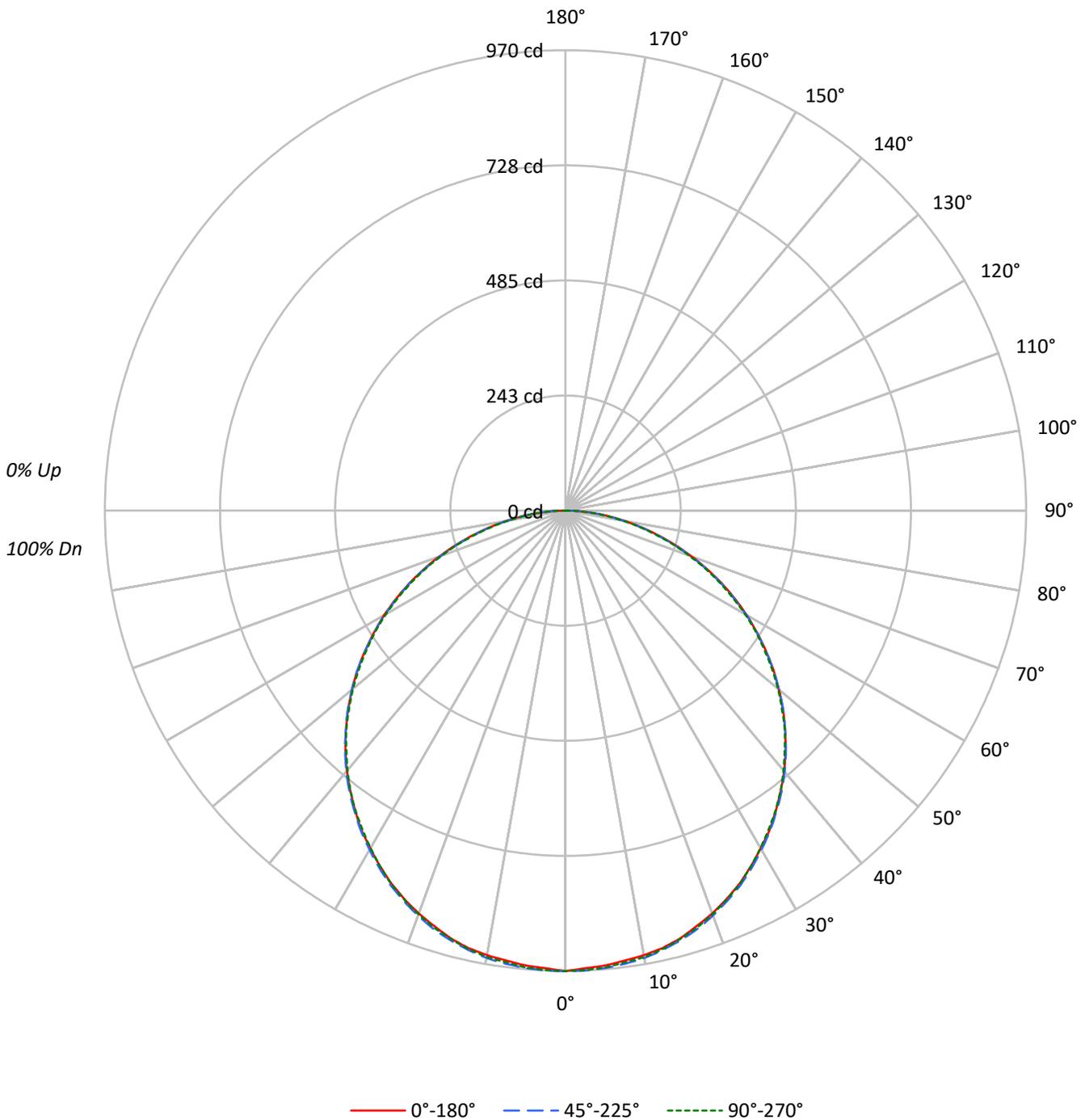
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2837.0 lumens
Efficiency: N/A
Efficacy: 153.3 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): 18.5
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				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	100	100	100	100
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83	83	83	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69	69	69	69
3	90	79	70	64	87	77	69	63	74	68	62	71	66	61	69	64	60	58	58	58	58
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49	49	49	49
5	75	62	53	46	73	61	52	46	59	51	46	57	50	45	55	49	45	42	42	42	42
6	69	56	47	40	68	55	46	40	53	46	40	51	45	39	50	44	39	37	37	37	37
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33	33	33	33
8	60	46	38	32	58	46	37	32	44	37	31	43	36	31	42	36	31	29	29	29	29
9	56	42	34	29	55	42	34	28	41	33	28	40	33	28	39	32	28	26	26	26	26
10	52	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24	24	24	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3179	3179	3179
5°	3164	3181	3178
10°	3164	3184	3178
15°	3165	3179	3169
20°	3149	3166	3156
25°	3135	3149	3138
30°	3110	3122	3107
35°	3088	3096	3084
40°	3063	3071	3054
45°	3030	3030	3026
50°	2992	2992	2977
55°	2942	2942	2919
60°	2890	2883	2864
65°	2814	2799	2776
70°	2711	2682	2654
75°	2570	2532	2494
80°	2415	2377	2321
85°	2218	2218	2105

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 3044 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.9	3.2
10°-20°	264.1	9.3
20°-30°	400.6	14.1
30°-40°	483.8	17.1
40°-50°	504.3	17.8
50°-60°	459.6	16.2
60°-70°	356.2	12.6
70°-80°	211.9	7.5
80°-90°	64.6	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°	756.6	26.7
0°-40°	1240.3	43.7
0°-60°	2204.3	77.7
0°-90°	2837.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2837.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	970	970	970	970	970	
5°	962	967	967	967	966	91
15°	933	937	937	936	934	263
25°	867	871	871	868	868	399
35°	772	776	774	772	771	483
45°	654	657	654	651	653	504
55°	515	517	515	511	511	461
65°	363	363	361	356	358	359
75°	203	203	200	195	197	215
85°	59	59	59	54	56	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	970.1	970.1	970.1	970.1	970.1
2.5°	965.1	971.1	970.1	969.1	969.1
5°	962.1	967.1	967.1	967.1	966.1
7.5°	956.1	963.1	963.1	961.1	960.1
10°	951.1	957.1	957.1	956.1	955.1
12.5°	944.1	948.1	948.1	947.1	946.1
15°	933.1	937.1	937.1	936.1	934.1
17.5°	918.1	924.1	924.1	921.1	921.1
20°	903.1	909.1	908.1	906.1	905.1
22.5°	886.1	891.1	890.1	888.1	887.1
25°	867.1	871.1	871.1	868.1	868.1
27.5°	845.1	850.1	849.1	846.1	845.1
30°	822.1	826.1	825.1	822.1	821.1
32.5°	799.1	802.1	801.1	797.1	796.1
35°	772.1	776.1	774.1	772.1	771.1
37.5°	744.1	748.1	747.1	744.1	744.1
40°	716.1	718.1	718.1	714.1	714.1
42.5°	686.0	689.0	687.0	683.0	683.0
45°	654.0	657.0	654.0	651.0	653.0
47.5°	621.0	624.0	622.0	618.0	618.0
50°	587.0	589.0	587.0	584.0	584.0
52.5°	552.0	555.0	552.0	549.0	548.0
55°	515.0	517.0	515.0	511.0	511.0
57.5°	478.0	480.0	477.0	473.0	475.0
60°	441.0	442.0	440.0	435.0	437.0
62.5°	402.0	403.0	400.0	396.0	397.0
65°	363.0	363.0	361.0	356.0	358.0
67.5°	323.0	323.0	321.0	316.0	318.0
70°	283.0	283.0	280.0	276.0	277.0
72.5°	243.0	243.0	240.0	236.0	238.0
75°	203.0	203.0	200.0	195.0	197.0
77.5°	165.0	165.0	163.0	157.0	159.0
80°	128.0	129.0	126.0	120.0	123.0
82.5°	92.0	92.0	92.0	87.0	88.0
85°	59.0	59.0	59.0	54.0	56.0
87.5°	28.0	28.0	28.0	26.0	26.0
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	15.96	17.61	16.32	17.93	18.24	15.87	17.52	16.23	17.84	18.15
	3H	17.85	19.35	18.23	19.68	20.04	17.74	19.24	18.12	19.57	19.93
	4H	18.58	20.00	18.98	20.35	20.72	18.45	19.87	18.85	20.21	20.59
	6H	19.15	20.47	19.56	20.83	21.22	18.99	20.31	19.40	20.67	21.06
	8H	19.35	20.61	19.77	21.00	21.39	19.18	20.44	19.60	20.82	21.22
	12H	19.49	20.70	19.92	21.08	21.51	19.31	20.52	19.74	20.90	21.33
4H	2H	16.61	18.03	17.01	18.37	18.75	16.54	17.96	16.94	18.30	18.68
	3H	18.73	19.92	19.14	20.32	20.72	18.63	19.82	19.04	20.22	20.62
	4H	19.60	20.68	20.03	21.09	21.53	19.47	20.55	19.90	20.96	21.39
	6H	20.31	21.26	20.76	21.69	22.15	20.14	21.08	20.59	21.52	21.98
	8H	20.56	21.45	21.02	21.89	22.35	20.38	21.26	20.84	21.70	22.17
	12H	20.76	21.55	21.24	22.03	22.50	20.56	21.36	21.04	21.83	22.30
8H	4H	19.93	20.82	20.39	21.26	21.73	19.82	20.70	20.28	21.14	21.61
	6H	20.78	21.52	21.28	22.01	22.48	20.62	21.36	21.11	21.84	22.32
	8H	21.12	21.78	21.63	22.29	22.77	20.94	21.60	21.44	22.10	22.59
	12H	21.40	21.99	21.91	22.48	23.04	21.20	21.79	21.70	22.28	22.84
12H	4H	19.97	20.77	20.45	21.25	21.71	19.86	20.66	20.34	21.14	21.61
	6H	20.85	21.52	21.36	22.02	22.51	20.70	21.36	21.20	21.87	22.35
	8H	21.25	21.84	21.76	22.33	22.89	21.08	21.66	21.58	22.15	22.71