

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: IRiS

Report Number: P1336606

Luminaire Tested: P3A05R15B2750DE010 E3CA451MW_5000K

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1336606
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-73)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A05R15B2750DE010 E3CA451MW_5000K
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R15 optic, 5000K CCT AND, 80CRI , E3CA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

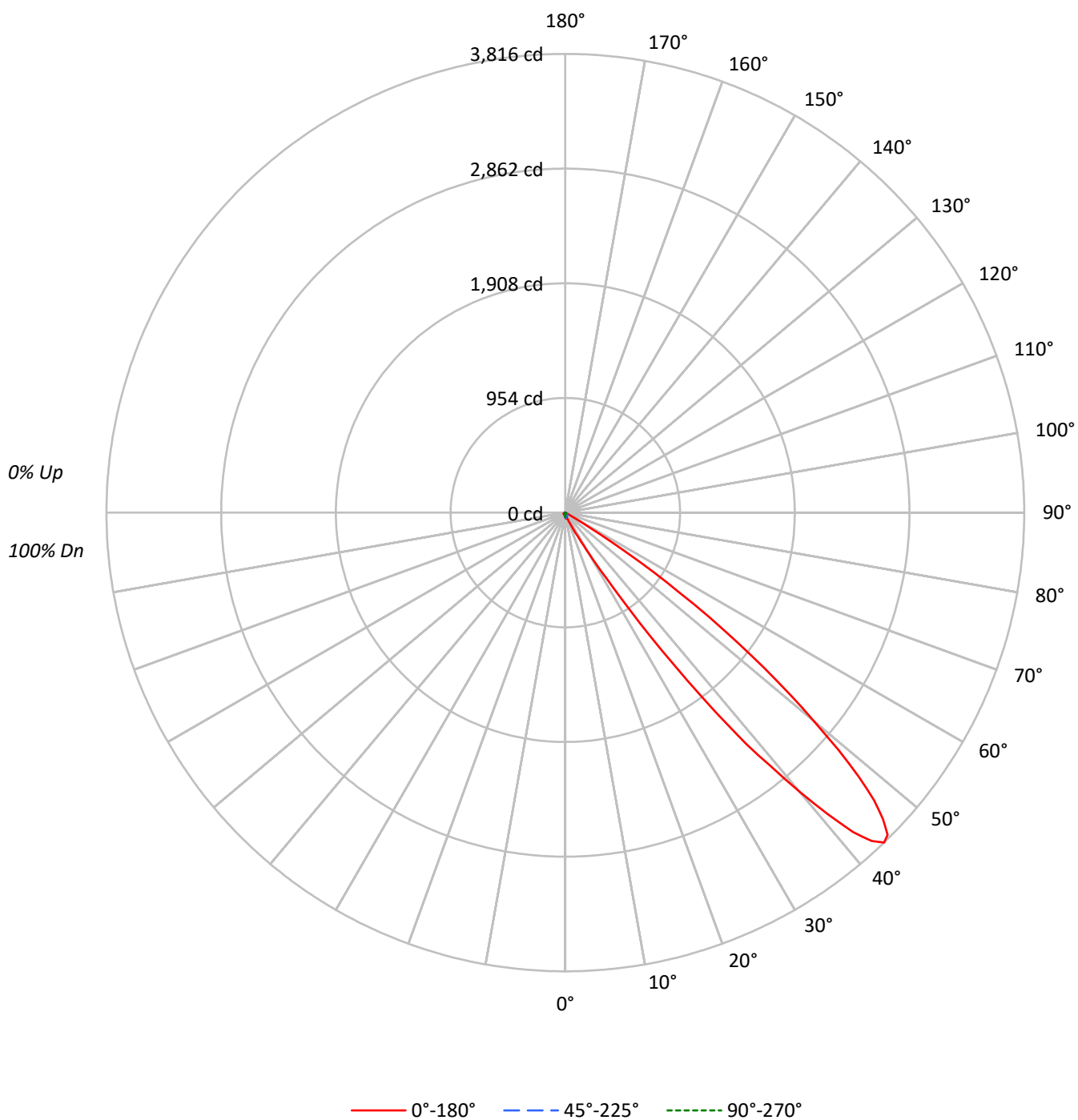
Lumens per Lamp: N/A
Luminaire Lumens: 425.9 lumens
Efficiency: N/A
Efficacy: 72.2 lumens/watt
Spacing Criteria (0/90/45): 3.26 / 0.48 / 1.08
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 5.9
Input Voltage (V): NR
Input Current (Ain): 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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	110	106	102	99	107	104	100	97	100	97	94	96	93	91	92	90	89	87		
2	101	93	87	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73		
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61		
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	53	50		
5	75	62	52	46	73	61	52	45	58	51	45	56	50	44	55	49	44	42		
6	68	54	45	38	66	53	44	38	51	43	37	49	42	37	48	42	37	35		
7	62	47	38	32	60	47	38	32	45	37	31	44	36	31	42	36	31	29		
8	56	42	33	27	55	41	33	27	40	32	26	39	31	26	37	31	26	24		
9	52	37	28	22	50	37	28	22	35	28	22	34	27	22	33	27	22	20		
10	48	33	25	19	46	33	25	19	32	24	19	31	24	19	30	23	19	17		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	8289	8289	8289	8289	8289
5°	10280	9157	7484	6538	6449
10°	10109	7860	5767	5099	5210
15°	8400	5585	4154	4245	4540
20°	14561	4457	3174	3664	4154
25°	32470	5347	2565	3387	3895
30°	97129	6558	2254	3342	4077
35°	373859	7388	2034	3400	4310
40°	867769	6441	1947	3521	4609
45°	1175378	4869	1706	3814	4993
50°	921590	2900	1740	4060	5492
55°	442364	1300	1606	4396	6002
60°	40435	175	1491	4649	6710
65°	4410	0	1297	4825	7264
70°	1090	0	1603	5193	7886
75°	1101	339	2118	5761	8981
80°	1010	1010	2652	5935	9597
85°	1006	1006	4277	5284	10567

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1175378 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.2	0.8
10°-20°	6.7	1.6
20°-30°	16.1	3.8
30°-40°	88.1	20.7
40°-50°	213.4	50.1
50°-60°	85.1	20.0
60°-70°	7.3	1.7
70°-80°	4.1	1.0
80°-90°	1.8	0.4
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°	26.0	6.1
0°-40°	114.2	26.8
0°-60°	412.6	96.9
0°-90°	425.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	425.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	38	38	38	38	38	
5°	47	42	34	30	29	4
15°	37	25	18	19	20	13
25°	134	22	11	14	16	81
35°	1397	28	8	13	16	987
45°	3790	16	6	12	16	2674
55°	1157	3	4	12	16	1078
65°	8	0	2	9	14	22
75°	1	0	2	7	11	1
85°	0	0	2	2	4	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8
2.5°	42.5	42.5	42.9	42.5	42.5	42.5	42.5	42.1	42.1	42.1	40.8
5°	46.7	46.7	46.7	46.7	46.3	46.3	46.3	45.9	45.9	45.4	41.6
7.5°	48.4	48.4	48.0	48.0	47.6	47.6	47.1	46.7	46.3	45.9	39.9
10°	45.4	45.4	45.4	45.0	45.0	44.6	44.2	43.8	43.3	42.5	35.3
12.5°	40.4	40.4	40.8	40.4	39.9	39.5	38.7	38.2	37.8	37.0	29.3
15°	37.0	37.0	37.0	36.5	36.1	35.3	34.8	34.0	33.6	32.3	24.6
17.5°	47.1	47.1	46.7	45.9	44.2	42.9	40.8	39.1	37.0	34.4	21.2
20°	62.4	62.4	61.6	60.7	58.6	56.5	53.1	50.1	46.7	43.8	19.1
22.5°	90.5	91.7	89.2	86.2	83.3	78.2	73.5	68.8	62.9	57.8	19.5
25°	134.2	135.5	134.2	127.4	121.9	115.1	106.2	96.8	86.7	77.3	22.1
27.5°	217.5	218.3	216.2	199.6	190.7	172.9	157.2	141.9	124.9	107.9	24.2
30°	383.6	384.0	370.4	337.3	308.0	268.9	235.7	203.9	177.1	149.9	25.9
31°	505.0	493.1	464.3	424.3	377.6	324.9	279.5	238.3	198.4	169.1	26.3
32°	641.4	639.7	591.7	522.5	460.0	394.2	325.8	273.1	227.2	187.3	26.8
33°	821.9	822.8	747.2	665.6	563.2	474.9	385.3	313.0	257.8	209.0	27.6
34°	1104.0	1037.7	948.9	838.5	699.2	566.2	449.8	359.3	285.4	229.8	27.6
35°	1396.6	1329.9	1232.2	1064.9	873.7	687.7	526.7	409.0	318.6	252.3	27.6
36°	1724.5	1668.0	1520.2	1306.6	1062.8	802.4	608.3	466.4	351.3	272.7	27.2
37°	2078.8	1996.0	1832.0	1598.8	1272.6	963.8	707.7	523.3	384.0	294.8	26.3
38°	2438.6	2363.8	2156.9	1874.5	1523.2	1134.1	807.0	578.1	414.1	311.4	25.1
39°	2711.3	2670.5	2465.3	2149.7	1723.3	1295.5	909.4	636.7	446.0	327.9	23.8
40°	3031.5	2965.7	2771.1	2380.8	1959.9	1459.9	1009.7	688.5	472.3	341.1	22.5
41°	3323.8	3240.5	2995.0	2617.8	2149.3	1607.7	1104.8	742.1	493.6	348.7	21.7
42°	3574.4	3477.5	3221.0	2820.8	2307.7	1725.8	1180.8	780.3	513.5	355.1	20.4
43°	3736.6	3653.0	3400.6	2973.3	2443.2	1834.1	1251.8	820.2	525.9	359.3	18.7
44°	3815.6	3731.1	3486.9	3068.9	2526.5	1899.1	1297.6	847.8	539.4	364.9	17.4
45°	3790.2	3704.4	3468.2	3070.6	2552.4	1922.5	1317.2	860.1	546.7	370.0	15.7
46°	3673.3	3613.0	3375.2	2990.7	2503.1	1897.4	1306.1	850.8	544.1	370.0	14.0
47°	3509.4	3440.6	3214.2	2853.6	2383.8	1832.8	1261.5	822.3	528.4	361.5	12.3
48°	3286.0	3227.3	2989.5	2635.6	2200.7	1692.3	1160.9	776.0	503.8	344.9	10.6
49°	3005.6	2924.1	2702.8	2357.0	1962.0	1492.6	1028.8	697.9	464.3	321.5	9.3
50°	2701.5	2600.8	2430.1	2077.9	1715.2	1279.8	855.0	590.0	408.6	291.0	8.5
51°	2403.7	2301.4	2138.7	1839.2	1451.8	1061.9	689.8	471.1	336.4	248.9	7.2
52°	2094.9	2009.1	1826.9	1591.6	1242.9	860.6	574.7	398.4	279.5	209.0	5.9
53°	1787.4	1728.8	1555.5	1317.2	998.6	703.0	469.4	341.1	243.8	178.8	4.7
54°	1479.4	1415.3	1283.6	1071.2	804.9	554.7	398.0	285.4	211.5	155.9	4.2
55°	1157.1	1123.9	1002.4	816.8	610.0	442.6	322.8	245.5	177.1	130.4	3.4
56°	891.2	853.8	742.9	592.5	453.2	346.6	261.2	200.5	149.9	109.2	2.5
57°	583.6	545.4	471.9	413.7	330.0	252.7	199.6	158.0	121.9	90.5	2.1
58°	344.9	310.1	298.6	254.9	220.0	171.6	147.4	117.7	90.0	71.4	1.3
59°	158.4	161.0	143.1	134.2	121.9	109.2	89.6	78.6	61.6	51.4	0.8
60°	92.2	87.1	85.0	76.0	67.5	59.9	53.9	47.6	38.7	33.1	0.4
62.5°	31.4	30.2	31.0	28.0	26.3	25.5	23.4	20.0	16.6	13.6	0.0
65°	8.5	8.5	8.1	7.6	7.2	6.8	6.4	5.5	5.1	4.2	0.0



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CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
67.5°	3.0	3.0	2.5	2.5	2.1	2.1	1.7	1.7	1.3	1.3	0.0
70°	1.7	1.7	1.7	1.3	1.3	1.3	0.8	0.8	0.8	0.4	0.0
72.5°	1.3	1.3	1.3	1.3	1.3	1.3	0.8	0.8	0.8	0.4	0.4
75°	1.3	1.3	1.3	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.4
77.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
80°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.4	0.8
82.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8
85°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	37.8	37.8	37.8	37.8	37.8	37.8
2.5°	39.1	37.4	35.3	34.0	33.6	33.1
5°	37.4	34.0	31.4	29.7	29.3	29.3
7.5°	33.6	29.7	27.2	26.3	25.9	25.9
10°	29.3	25.9	23.8	22.9	23.4	23.4
12.5°	24.6	21.7	20.8	20.8	21.2	21.7
15°	20.0	18.3	18.3	18.7	19.5	20.0
17.5°	16.6	15.7	16.1	17.0	17.8	18.7
20°	13.6	13.6	14.4	15.7	17.0	17.8
22.5°	11.5	11.9	13.2	14.4	16.1	17.0
25°	9.8	10.6	11.9	14.0	15.7	16.1
27.5°	8.5	9.8	11.5	13.6	15.3	16.1
30°	7.2	8.9	11.0	13.2	15.3	16.1
31°	6.8	8.5	10.6	13.2	15.3	16.1
32°	6.4	8.5	10.6	13.2	15.3	16.1
33°	5.9	8.1	10.6	12.7	15.3	16.1
34°	5.5	8.1	10.6	13.2	15.3	16.1
35°	5.1	7.6	10.2	12.7	14.9	16.1
36°	4.7	7.6	10.2	12.7	15.3	16.1
37°	4.2	7.6	10.2	12.7	14.9	16.1
38°	4.2	7.2	9.8	12.7	14.9	16.1
39°	3.8	6.8	9.8	12.7	14.9	16.1
40°	3.4	6.8	9.3	12.3	14.9	16.1
41°	3.0	6.4	9.3	12.3	14.9	16.1
42°	2.5	6.4	9.3	12.3	14.9	16.1
43°	2.1	5.9	8.9	12.3	14.9	16.1
44°	2.1	5.9	8.9	12.3	14.9	16.1
45°	1.7	5.5	8.5	12.3	14.9	16.1
46°	1.7	5.5	8.5	11.9	14.9	16.1
47°	1.3	5.5	8.5	11.9	14.9	16.1
48°	1.3	5.1	8.5	11.9	14.9	16.1
49°	0.8	5.1	8.5	11.9	14.9	16.1
50°	0.8	5.1	8.1	11.9	14.9	16.1
51°	0.8	5.1	8.1	11.9	14.9	16.1
52°	0.8	4.7	8.1	11.9	14.9	16.1
53°	0.8	4.7	8.1	11.9	14.9	16.1
54°	0.8	4.7	7.6	11.9	14.9	16.1
55°	0.8	4.2	7.6	11.5	14.9	15.7
56°	0.8	4.2	7.6	11.5	14.9	15.7
57°	0.8	4.2	7.2	11.5	14.9	15.7
58°	0.8	3.8	7.2	11.0	14.4	15.7
59°	0.8	3.8	6.8	11.0	14.4	15.3
60°	0.8	3.4	6.8	10.6	14.0	15.3
62.5°	0.8	3.0	5.9	10.2	13.6	14.4
65°	0.8	2.5	5.5	9.3	13.2	14.0



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	0.8	2.5	5.1	8.9	12.3	13.6
70°	0.8	2.5	4.7	8.1	11.9	12.3
72.5°	1.3	2.5	4.2	7.6	11.0	11.5
75°	1.7	2.5	3.8	6.8	10.2	10.6
77.5°	1.7	2.5	3.4	5.9	8.9	9.3
80°	1.7	2.1	3.0	4.7	7.2	7.6
82.5°	1.7	2.1	2.1	3.8	5.5	5.9
85°	1.3	1.7	1.7	2.1	3.8	4.2
87.5°	1.3	1.7	0.8	1.3	1.7	1.7
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)