

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: P1335935

Luminaire Tested: P3A02R40B2750DE010 E3CA451MMS_2700K

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1335935
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-78)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A02R40B2750DE010 E3CA451MMS_2700K
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R40 optic, 2700K CCT AND, 90CRI , E3CA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

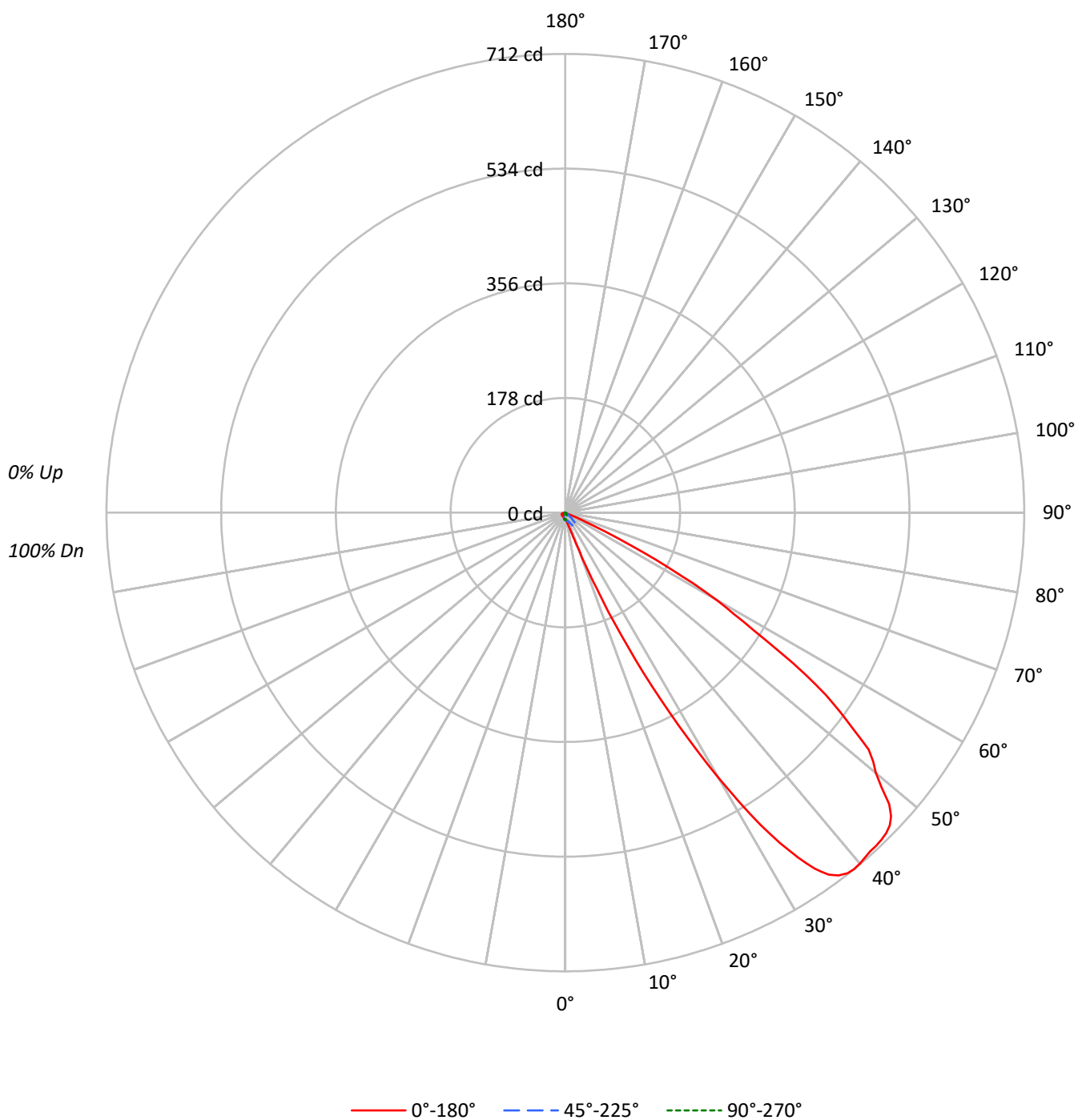
Lumens per Lamp: N/A
Luminaire Lumens: 220.0 lumens
Efficiency: N/A
Efficacy: 75.9 lumens/watt
Spacing Criteria (0/90/45): 3.99 / 0.74 / 1.54
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 2.9
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					0
RW	70	50	30	10	70	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			
1	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88	86			
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73			
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60			
4	82	70	62	55	80	69	61	54	67	59	54	64	58	53	62	57	52	50			
5	75	62	52	46	73	60	52	45	58	51	45	56	50	44	54	49	44	42			
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	35			
7	62	48	39	32	60	47	38	32	45	37	32	44	37	31	42	36	31	29			
8	57	42	33	27	55	42	33	27	40	32	27	39	32	27	38	31	26	24			
9	52	38	29	23	51	37	29	23	36	28	23	35	28	23	34	27	23	21			
10	48	34	25	20	47	33	25	20	32	25	20	31	24	20	30	24	19	18			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	2478	2478	2478	2478	2478
5°	2751	2663	2443	2223	2179
10°	3340	2828	2249	2026	1982
15°	5448	3065	1930	1793	1839
20°	14421	3640	1610	1610	1750
25°	55624	4500	1282	1476	1718
30°	120018	5976	1013	1443	1696
35°	180639	7094	857	1419	1740
40°	203524	7128	744	1460	1861
45°	218224	5520	682	1489	2016
50°	214475	3446	614	1569	2217
55°	188705	1682	612	1759	2485
60°	119420	351	702	1930	2763
65°	24438	104	726	2075	3061
70°	513	128	769	2308	3526
75°	508	339	847	2542	3897
80°	505	253	1010	2778	4546
85°	503	503	2013	3019	5032

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 47°

Luminance: 222175 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.1	0.5
10°-20°	3.5	1.6
20°-30°	17.1	7.8
30°-40°	55.6	25.3
40°-50°	76.6	34.8
50°-60°	53.4	24.3
60°-70°	10.1	4.6
70°-80°	1.8	0.8
80°-90°	0.8	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°	21.6	9.8
0°-40°	77.2	35.1
0°-60°	207.2	94.2
0°-90°	220.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	220.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	11	11	11	11	11	
5°	12	12	11	10	10	1
15°	24	14	8	8	8	9
25°	230	19	5	6	7	118
35°	675	26	3	5	6	408
45°	704	18	2	5	6	535
55°	494	4	2	5	6	422
65°	47	0	1	4	6	83
75°	1	0	1	3	5	1
85°	0	0	1	1	2	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3
2.5°	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.5	11.3
5°	12.5	12.5	12.5	12.5	12.3	12.3	12.3	12.1	12.1	11.7	11.1
7.5°	13.3	13.3	13.3	13.3	13.1	12.9	12.7	12.7	12.5	11.5	10.7
10°	15.0	15.0	14.7	14.5	14.3	13.9	13.7	13.3	12.7	11.3	10.1
12.5°	18.2	17.8	17.6	17.2	16.6	15.8	15.0	14.3	12.9	10.9	9.5
15°	24.0	23.6	22.8	21.6	20.4	18.8	17.4	16.0	13.5	10.3	8.5
17.5°	34.3	33.1	31.9	29.9	26.9	24.0	21.0	18.4	14.3	9.7	7.7
20°	61.8	61.0	53.7	48.1	39.0	32.5	26.5	22.0	15.6	9.1	6.9
22.5°	127.5	119.0	107.1	87.7	68.3	50.3	36.6	27.7	16.8	8.3	6.1
25°	229.9	216.6	190.9	153.5	113.3	80.2	52.9	36.2	18.6	7.5	5.3
27.5°	348.1	334.6	294.8	243.3	177.6	121.0	75.6	47.9	21.0	6.7	4.6
30°	474.0	462.5	412.0	340.6	250.3	169.5	101.2	59.8	23.6	5.9	4.0
31°	524.7	509.9	455.4	379.4	284.5	189.5	111.5	64.9	24.6	5.7	3.8
32°	571.4	554.6	498.0	416.6	312.2	211.1	122.8	69.3	25.5	5.3	3.6
33°	611.6	592.0	537.4	451.8	342.7	231.3	134.6	73.5	26.1	4.8	3.4
34°	645.7	628.7	570.2	487.1	369.7	250.7	146.1	77.8	26.5	4.6	3.2
35°	674.8	659.5	601.5	514.0	396.2	269.5	156.6	81.8	26.5	4.2	3.2
36°	694.4	681.1	628.5	541.5	418.4	285.5	165.5	85.5	26.5	3.8	3.0
37°	705.1	692.2	646.3	564.1	440.2	301.2	173.6	88.3	26.3	3.6	2.8
38°	710.6	699.3	659.5	582.5	455.4	312.6	180.6	90.5	26.1	3.2	2.8
39°	712.0	702.5	667.7	595.8	470.1	323.9	185.7	91.7	25.5	3.0	2.6
40°	711.0	702.7	672.2	607.7	481.5	332.8	189.3	92.1	24.9	2.6	2.6
41°	709.0	702.5	675.4	616.0	490.6	338.4	190.7	91.3	24.0	2.2	2.4
42°	707.1	700.1	676.8	621.7	496.8	341.2	190.5	89.7	22.8	2.0	2.4
43°	707.1	699.1	677.0	625.3	499.8	341.4	188.1	86.7	21.2	1.8	2.2
44°	705.9	698.5	678.0	627.7	500.7	339.6	184.3	83.4	19.4	1.6	2.2
45°	703.7	695.8	677.8	627.9	499.2	335.2	178.0	79.2	17.8	1.2	2.2
46°	699.5	692.4	676.0	626.5	495.0	328.7	170.5	75.0	16.0	1.0	2.0
47°	691.0	685.5	671.2	621.7	488.5	319.2	161.6	70.1	14.5	0.8	2.0
48°	676.4	672.6	662.9	611.0	476.2	307.5	152.1	64.9	13.1	0.8	2.0
49°	649.8	646.7	641.1	593.8	460.4	293.2	141.8	59.0	11.7	0.6	2.0
50°	628.7	625.5	614.0	564.9	437.8	275.0	130.5	53.1	10.1	0.4	1.8
51°	614.8	609.6	591.4	531.4	404.9	250.7	118.2	47.3	8.5	0.4	1.8
52°	597.2	589.3	566.7	501.3	374.8	226.5	104.9	41.4	7.5	0.4	1.8
53°	560.5	557.6	535.2	468.9	344.7	203.3	91.1	36.6	6.5	0.4	1.8
54°	528.3	524.1	493.6	424.1	311.9	177.4	77.0	32.3	5.5	0.4	1.8
55°	493.6	485.3	458.2	386.3	273.6	153.5	63.4	27.9	4.4	0.4	1.6
56°	449.7	442.5	413.4	345.9	238.2	129.3	53.1	22.8	3.4	0.4	1.6
57°	396.4	389.7	367.3	296.2	201.4	105.7	43.2	18.4	2.6	0.4	1.6
58°	344.9	337.4	311.7	248.5	162.6	83.8	36.2	15.0	2.0	0.4	1.6
59°	305.3	295.2	262.0	208.7	127.3	63.6	28.7	11.9	1.4	0.4	1.6
60°	272.3	264.1	229.7	173.8	99.8	46.9	21.2	9.1	0.8	0.4	1.6
62.5°	157.8	155.6	124.7	89.5	47.1	21.8	10.5	4.2	0.4	0.6	1.6
65°	47.1	41.0	31.9	19.0	12.1	7.3	3.8	1.4	0.2	0.6	1.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
67.5°	1.4	1.4	1.4	1.4	1.4	1.4	0.8	0.4	0.2	0.6	1.4
70°	0.8	0.6	0.6	0.6	0.6	0.4	0.4	0.2	0.2	0.6	1.2
72.5°	0.6	0.6	0.6	0.6	0.4	0.4	0.4	0.2	0.4	0.6	1.0
75°	0.6	0.4	0.4	0.4	0.4	0.2	0.2	0.2	0.4	0.6	1.0
77.5°	0.4	0.4	0.4	0.4	0.2	0.2	0.2	0.2	0.4	0.6	1.0
80°	0.4	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.6	0.8
82.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.6	0.8
85°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.6	0.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.6	0.6
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):

	112.5°	135°	157.5°	180°
0°	11.3	11.3	11.3	11.3
2.5°	10.9	10.7	10.5	10.5
5°	10.5	10.1	10.1	9.9
7.5°	9.9	9.5	9.5	9.5
10°	9.3	9.1	9.1	8.9
12.5°	8.5	8.5	8.5	8.5
15°	7.9	7.9	8.1	8.1
17.5°	7.1	7.3	7.7	7.9
20°	6.5	6.9	7.3	7.5
22.5°	6.1	6.5	7.1	7.3
25°	5.5	6.1	6.9	7.1
27.5°	5.1	5.9	6.5	6.9
30°	4.6	5.7	6.3	6.7
31°	4.6	5.5	6.3	6.7
32°	4.4	5.3	6.3	6.5
33°	4.4	5.3	6.3	6.5
34°	4.2	5.3	6.1	6.5
35°	4.2	5.3	6.1	6.5
36°	4.0	5.1	6.1	6.5
37°	4.0	5.1	6.1	6.5
38°	3.8	5.1	6.1	6.5
39°	3.8	5.1	6.1	6.5
40°	3.8	5.1	6.1	6.5
41°	3.6	5.1	6.1	6.5
42°	3.6	5.1	6.1	6.5
43°	3.6	4.8	6.1	6.5
44°	3.6	4.8	6.1	6.5
45°	3.4	4.8	6.1	6.5
46°	3.4	4.8	6.1	6.5
47°	3.4	4.8	6.1	6.5
48°	3.4	4.8	6.1	6.5
49°	3.4	4.8	6.1	6.5
50°	3.2	4.6	6.1	6.5
51°	3.2	4.6	6.1	6.5
52°	3.2	4.6	6.1	6.5
53°	3.2	4.6	6.1	6.5
54°	3.0	4.6	6.1	6.5
55°	3.0	4.6	6.1	6.5
56°	3.0	4.6	6.1	6.3
57°	3.0	4.6	5.9	6.3
58°	3.0	4.4	5.9	6.3
59°	3.0	4.4	5.9	6.3
60°	3.0	4.4	5.9	6.3
62.5°	2.8	4.4	5.7	6.1
65°	2.6	4.0	5.7	5.9



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CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
67.5°	2.6	3.8	5.3	5.7
70°	2.4	3.6	5.1	5.5
72.5°	2.0	3.4	4.6	5.1
75°	1.8	3.0	4.2	4.6
77.5°	1.6	2.6	3.8	4.0
80°	1.4	2.2	3.2	3.6
82.5°	1.0	1.6	2.6	2.8
85°	0.8	1.2	1.8	2.0
87.5°	0.6	0.6	1.0	1.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)