

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: P1334281

Luminaire Tested: P3A02R15B2750DE010 E3CA451MB_4000K

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1334281
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: P3A02R15B2750DE010 E3CA451MB_4000K
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R15 optic, 4000K CCT AND, 80CRI , E3CA451MB TRIM
Light Source: -
Ballast/Driver: -

Summary

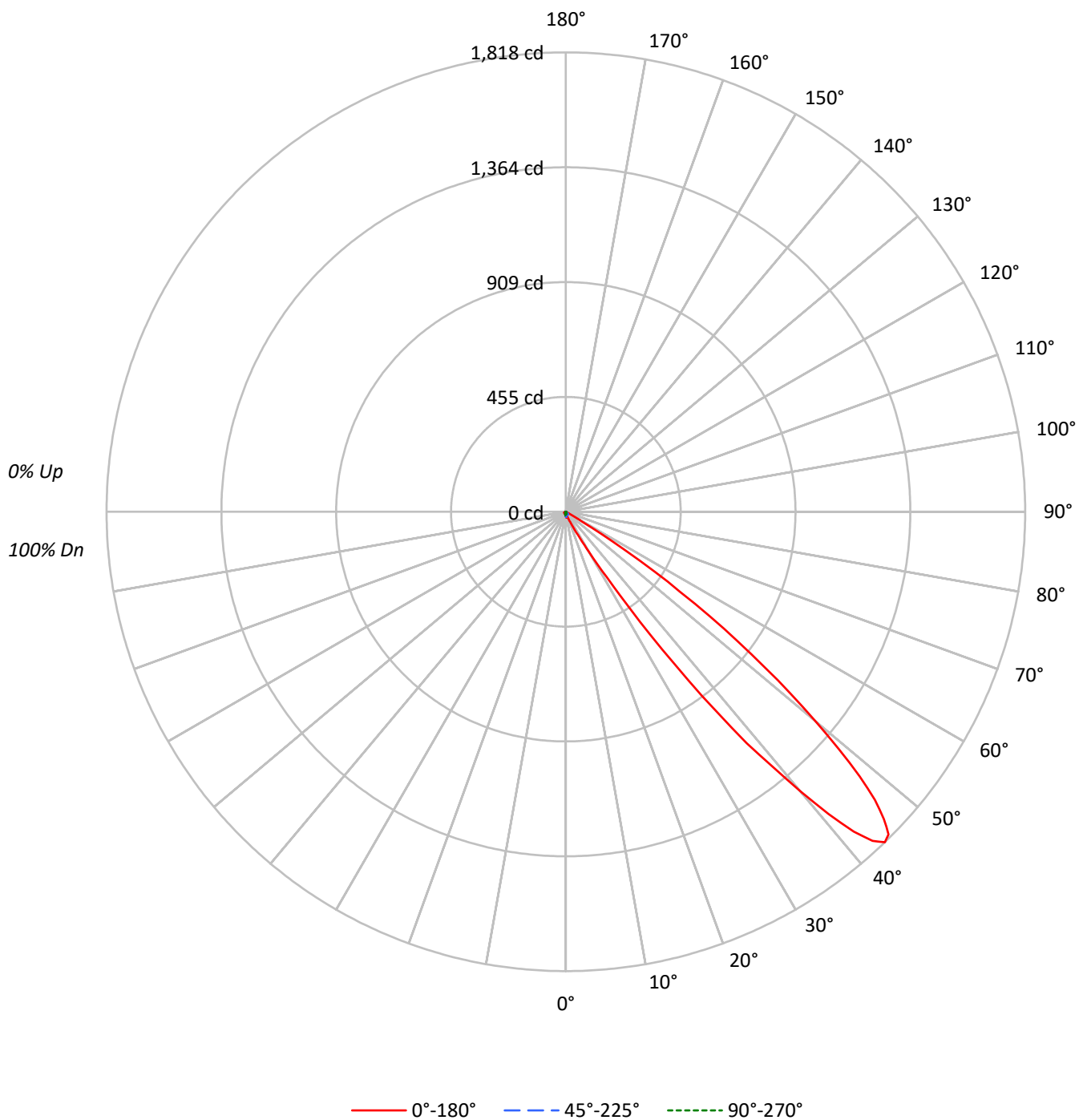
Lumens per Lamp: N/A
Luminaire Lumens: 203.0 lumens
Efficiency: N/A
Efficacy: 70.0 lumens/watt
Spacing Criteria (0/90/45): 3.26 / 0.47 / 1.08
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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				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°	3947	3947	3947	3947	3947
5°	4909	4358	3566	3126	3082
10°	4832	3741	2739	2427	2472
15°	3995	2656	1975	2020	2157
20°	6954	2124	1517	1750	1984
25°	15485	2540	1234	1621	1863
30°	46286	3114	1089	1595	1950
35°	178149	3534	964	1633	2061
40°	413518	3063	916	1689	2204
45°	560089	2326	806	1830	2388
50°	439150	1365	819	1944	2627
55°	210803	612	765	2103	2867
60°	19253	88	702	2237	3201
65°	2075	0	623	2335	3476
70°	513	0	769	2436	3783
75°	508	169	1017	2711	4321
80°	505	505	1263	2778	4546
85°	503	503	2013	2516	5032

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 560089 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.5	0.8
10°-20°	3.2	1.6
20°-30°	7.7	3.8
30°-40°	42.0	20.7
40°-50°	101.7	50.1
50°-60°	40.6	20.0
60°-70°	3.5	1.7
70°-80°	2.0	1.0
80°-90°	0.9	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°	12.4	6.1
0°-40°	54.4	26.8
0°-60°	196.6	96.9
0°-90°	203.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	203.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	18	18	18	18	18	
5°	22	20	16	14	14	2
15°	18	12	9	9	10	6
25°	64	10	5	7	8	39
35°	666	13	4	6	8	470
45°	1806	8	3	6	8	1274
55°	551	2	2	6	8	514
65°	4	0	1	4	7	10
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°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0
2.5°	20.2	20.2	20.4	20.2	20.2	20.2	20.2	20.0	20.0	20.0	19.4
5°	22.3	22.3	22.3	22.3	22.1	22.1	22.1	21.9	21.9	21.7	19.8
7.5°	23.1	23.1	22.9	22.9	22.7	22.7	22.5	22.3	22.1	21.9	19.0
10°	21.7	21.7	21.7	21.5	21.5	21.3	21.1	20.8	20.6	20.2	16.8
12.5°	19.2	19.2	19.4	19.2	19.0	18.8	18.4	18.2	18.0	17.6	14.0
15°	17.6	17.6	17.6	17.4	17.2	16.8	16.6	16.2	16.0	15.4	11.7
17.5°	22.5	22.5	22.3	21.9	21.1	20.4	19.4	18.6	17.6	16.4	10.1
20°	29.8	29.8	29.3	28.9	27.9	26.9	25.3	23.9	22.3	20.8	9.1
22.5°	43.1	43.7	42.5	41.1	39.7	37.2	35.0	32.8	30.0	27.5	9.3
25°	64.0	64.6	64.0	60.7	58.1	54.9	50.6	46.1	41.3	36.8	10.5
27.5°	103.6	104.0	103.0	95.1	90.9	82.4	74.9	67.6	59.5	51.4	11.5
30°	182.8	183.0	176.5	160.7	146.7	128.1	112.3	97.2	84.4	71.5	12.3
31°	240.7	235.0	221.2	202.2	179.9	154.8	133.2	113.6	94.5	80.6	12.5
32°	305.6	304.8	282.0	249.0	219.2	187.8	155.2	130.1	108.3	89.3	12.8
33°	391.7	392.1	356.0	317.2	268.4	226.3	183.6	149.2	122.9	99.6	13.2
34°	526.1	494.5	452.2	399.6	333.2	269.8	214.4	171.2	136.0	109.5	13.2
35°	665.5	633.7	587.2	507.4	416.4	327.7	251.0	194.9	151.8	120.2	13.2
36°	821.8	794.9	724.4	622.6	506.4	382.4	289.9	222.2	167.4	129.9	13.0
37°	990.6	951.1	873.0	761.9	606.4	459.3	337.2	249.4	183.0	140.5	12.5
38°	1162.0	1126.4	1027.8	893.2	725.8	540.4	384.6	275.5	197.3	148.4	11.9
39°	1292.0	1272.6	1174.8	1024.4	821.2	617.4	433.4	303.4	212.5	156.3	11.3
40°	1444.6	1413.2	1320.5	1134.5	933.9	695.7	481.1	328.1	225.1	162.5	10.7
41°	1583.9	1544.2	1427.2	1247.5	1024.2	766.1	526.5	353.6	235.2	166.2	10.3
42°	1703.3	1657.1	1534.9	1344.2	1099.7	822.4	562.7	371.8	244.7	169.2	9.7
43°	1780.6	1740.7	1620.5	1416.9	1164.3	874.0	596.5	390.9	250.6	171.2	8.9
44°	1818.2	1778.0	1661.6	1462.4	1203.9	905.0	618.4	404.0	257.1	173.9	8.3
45°	1806.1	1765.2	1652.7	1463.2	1216.3	916.1	627.7	409.9	260.5	176.3	7.5
46°	1750.4	1721.7	1608.4	1425.2	1192.8	904.2	622.4	405.4	259.3	176.3	6.7
47°	1672.3	1639.5	1531.6	1359.8	1135.9	873.4	601.2	391.9	251.8	172.3	5.9
48°	1565.8	1537.9	1424.6	1256.0	1048.7	806.4	553.2	369.8	240.1	164.4	5.1
49°	1432.3	1393.4	1287.9	1123.2	934.9	711.3	490.2	332.6	221.2	153.2	4.5
50°	1287.3	1239.4	1158.0	990.2	817.3	609.9	407.5	281.1	194.7	138.7	4.0
51°	1145.4	1096.7	1019.1	876.4	691.8	506.0	328.7	224.5	160.3	118.6	3.4
52°	998.3	957.4	870.6	758.4	592.3	410.1	273.9	189.9	133.2	99.6	2.8
53°	851.7	823.8	741.2	627.7	475.9	335.0	223.7	162.5	116.2	85.2	2.2
54°	705.0	674.4	611.7	510.5	383.6	264.3	189.7	136.0	100.8	74.3	2.0
55°	551.4	535.6	477.7	389.2	290.7	210.9	153.8	117.0	84.4	62.1	1.6
56°	424.7	406.8	354.0	282.4	216.0	165.2	124.5	95.5	71.5	52.0	1.2
57°	278.1	259.9	224.9	197.1	157.3	120.4	95.1	75.3	58.1	43.1	1.0
58°	164.4	147.8	142.3	121.4	104.8	81.8	70.2	56.1	42.9	34.0	0.6
59°	75.5	76.7	68.2	64.0	58.1	52.0	42.7	37.4	29.3	24.5	0.4
60°	43.9	41.5	40.5	36.2	32.2	28.5	25.7	22.7	18.4	15.8	0.2
62.5°	15.0	14.4	14.8	13.4	12.5	12.1	11.1	9.5	7.9	6.5	0.0
65°	4.0	4.0	3.8	3.6	3.4	3.2	3.0	2.6	2.4	2.0	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°	1.4	1.4	1.2	1.2	1.0	1.0	0.8	0.8	0.6	0.6	0.0
70°	0.8	0.8	0.8	0.6	0.6	0.6	0.4	0.4	0.4	0.2	0.0
72.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.4	0.4	0.4	0.2	0.2
75°	0.6	0.6	0.6	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.2
77.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
80°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.2	0.4
82.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4
85°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
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°	18.0	18.0	18.0	18.0	18.0	18.0
2.5°	18.6	17.8	16.8	16.2	16.0	15.8
5°	17.8	16.2	15.0	14.2	14.0	14.0
7.5°	16.0	14.2	13.0	12.5	12.3	12.3
10°	14.0	12.3	11.3	10.9	11.1	11.1
12.5°	11.7	10.3	9.9	9.9	10.1	10.3
15°	9.5	8.7	8.7	8.9	9.3	9.5
17.5°	7.9	7.5	7.7	8.1	8.5	8.9
20°	6.5	6.5	6.9	7.5	8.1	8.5
22.5°	5.5	5.7	6.3	6.9	7.7	8.1
25°	4.7	5.1	5.7	6.7	7.5	7.7
27.5°	4.0	4.7	5.5	6.5	7.3	7.7
30°	3.4	4.3	5.3	6.3	7.3	7.7
31°	3.2	4.0	5.1	6.3	7.3	7.7
32°	3.0	4.0	5.1	6.3	7.3	7.7
33°	2.8	3.8	5.1	6.1	7.3	7.7
34°	2.6	3.8	5.1	6.3	7.3	7.7
35°	2.4	3.6	4.9	6.1	7.1	7.7
36°	2.2	3.6	4.9	6.1	7.3	7.7
37°	2.0	3.6	4.9	6.1	7.1	7.7
38°	2.0	3.4	4.7	6.1	7.1	7.7
39°	1.8	3.2	4.7	6.1	7.1	7.7
40°	1.6	3.2	4.5	5.9	7.1	7.7
41°	1.4	3.0	4.5	5.9	7.1	7.7
42°	1.2	3.0	4.5	5.9	7.1	7.7
43°	1.0	2.8	4.3	5.9	7.1	7.7
44°	1.0	2.8	4.3	5.9	7.1	7.7
45°	0.8	2.6	4.0	5.9	7.1	7.7
46°	0.8	2.6	4.0	5.7	7.1	7.7
47°	0.6	2.6	4.0	5.7	7.1	7.7
48°	0.6	2.4	4.0	5.7	7.1	7.7
49°	0.4	2.4	4.0	5.7	7.1	7.7
50°	0.4	2.4	3.8	5.7	7.1	7.7
51°	0.4	2.4	3.8	5.7	7.1	7.7
52°	0.4	2.2	3.8	5.7	7.1	7.7
53°	0.4	2.2	3.8	5.7	7.1	7.7
54°	0.4	2.2	3.6	5.7	7.1	7.7
55°	0.4	2.0	3.6	5.5	7.1	7.5
56°	0.4	2.0	3.6	5.5	7.1	7.5
57°	0.4	2.0	3.4	5.5	7.1	7.5
58°	0.4	1.8	3.4	5.3	6.9	7.5
59°	0.4	1.8	3.2	5.3	6.9	7.3
60°	0.4	1.6	3.2	5.1	6.7	7.3
62.5°	0.4	1.4	2.8	4.9	6.5	6.9
65°	0.4	1.2	2.6	4.5	6.3	6.7



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	0.4	1.2	2.4	4.3	5.9	6.5
70°	0.4	1.2	2.2	3.8	5.7	5.9
72.5°	0.6	1.2	2.0	3.6	5.3	5.5
75°	0.8	1.2	1.8	3.2	4.9	5.1
77.5°	0.8	1.2	1.6	2.8	4.3	4.5
80°	0.8	1.0	1.4	2.2	3.4	3.6
82.5°	0.8	1.0	1.0	1.8	2.6	2.8
85°	0.6	0.8	0.8	1.0	1.8	2.0
87.5°	0.6	0.8	0.4	0.6	0.8	0.8
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)