

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: P1335605

Luminaire Tested: P3A02R35B2750DE010 E3CA451MW_3000K

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1335605
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-77)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A02R35B2750DE010 E3CA451MW_3000K
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R35 optic, 3000K CCT AND, 90CRI , E3CA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

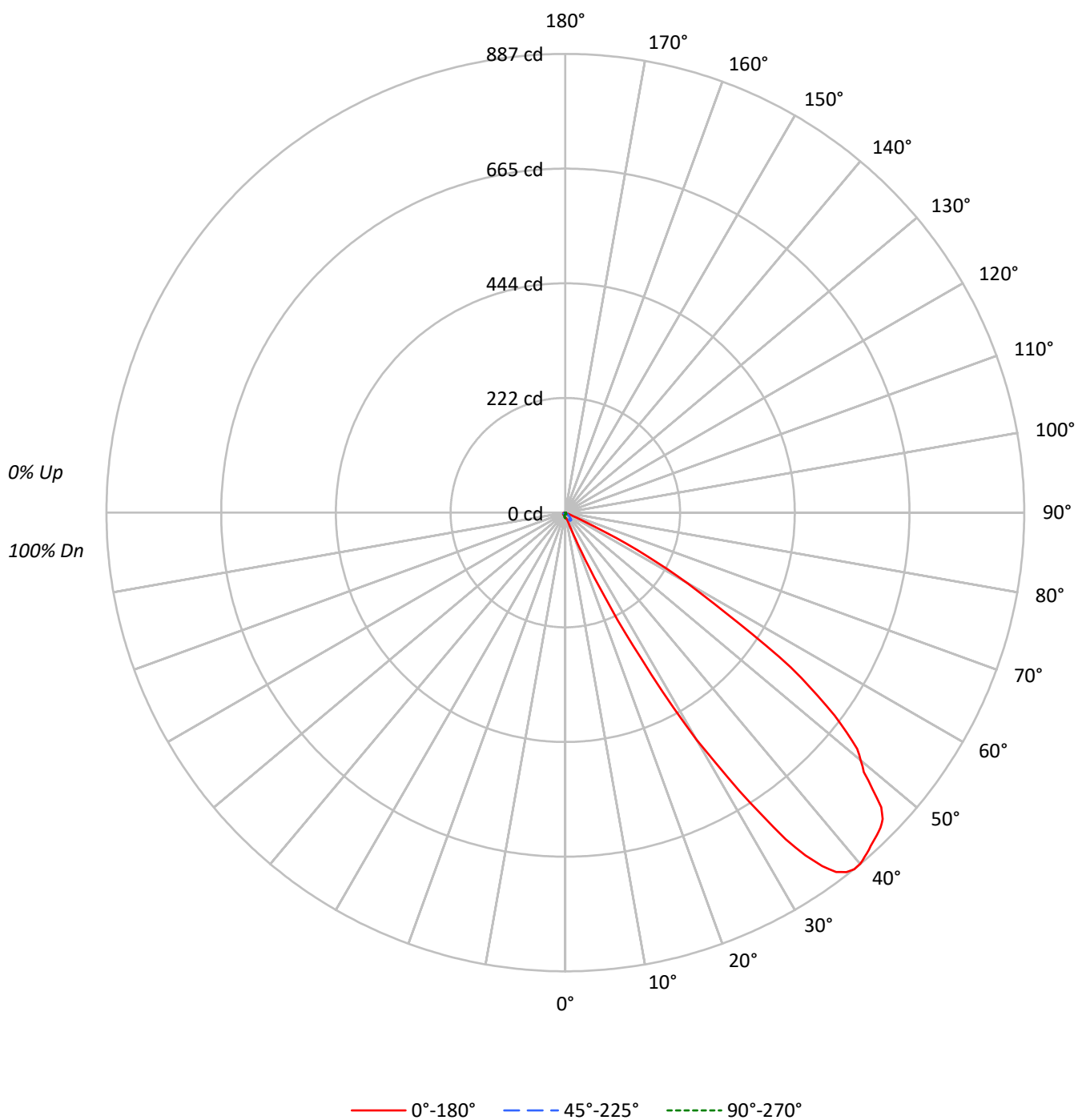
Lumens per Lamp: N/A
Luminaire Lumens: 221.0 lumens
Efficiency: N/A
Efficacy: 76.2 lumens/watt
Spacing Criteria (0/90/45): 4.01 / 0.66 / 1.41
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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
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	100	93	86	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	52	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	38	50	43	37	48	42	37	35		
7	62	48	38	32	60	47	38	32	45	37	32	44	37	31	42	36	31	29		
8	57	42	33	27	55	41	33	27	40	32	27	39	32	26	38	31	26	24		
9	52	38	29	23	50	37	29	23	36	28	23	35	28	22	34	27	22	20		
10	48	34	25	19	46	33	25	19	32	25	19	31	24	19	30	24	19	17		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	2237	2237	2237	2237	2237
5°	2421	2377	2201	1981	1937
10°	2538	2316	1959	1692	1692
15°	3632	2270	1589	1453	1498
20°	9077	2427	1260	1260	1400
25°	42148	3097	968	1161	1307
30°	128096	4203	760	1063	1317
35°	216510	4872	642	1017	1285
40°	253790	4809	515	1031	1374
45°	267253	3411	434	1116	1489
50°	254388	2047	409	1160	1637
55°	213173	841	459	1300	1912
60°	119333	175	526	1491	2105
65°	20599	104	519	1660	2387
70°	385	128	641	1795	2693
75°	339	169	847	2033	3050
80°	253	253	1010	2273	3536
85°	0	503	2013	2516	4026

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 46°

Luminance: 269169 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.9	0.4
10°-20°	2.6	1.2
20°-30°	13.6	6.1
30°-40°	58.6	26.5
40°-50°	83.5	37.8
50°-60°	51.7	23.4
60°-70°	7.9	3.6
70°-80°	1.5	0.7
80°-90°	0.7	0.3
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°	17.1	7.7
0°-40°	75.7	34.2
0°-60°	210.9	95.4
0°-90°	221.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	221.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	10	10	10	10	10	
5°	11	11	10	9	9	1
15°	16	10	7	6	7	6
25°	174	13	4	5	5	104
35°	809	18	2	4	5	486
45°	862	11	1	4	5	651
55°	558	2	1	3	5	475
65°	40	0	1	3	5	81
75°	0	0	1	2	4	0
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°	45°	67.5°	90°	112.5°
0°	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2
2.5°	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.2	10.0
5°	11.0	11.0	10.8	10.8	10.8	10.8	10.8	10.8	10.4	10.0	9.4
7.5°	11.2	11.2	11.0	11.0	11.0	11.0	10.8	10.6	10.2	9.4	8.8
10°	11.4	11.4	11.4	11.4	11.2	11.0	10.8	10.4	9.8	8.8	8.2
12.5°	12.8	12.8	12.6	12.2	11.8	11.4	11.0	10.2	9.0	8.0	7.4
15°	16.0	15.8	15.4	14.8	14.0	13.0	12.2	10.0	8.2	7.0	6.6
17.5°	22.3	21.9	21.3	19.4	17.6	15.8	14.2	10.0	7.4	6.2	5.8
20°	38.9	39.1	34.9	30.1	26.1	21.7	17.8	10.4	6.6	5.4	5.2
22.5°	81.2	78.0	68.0	56.5	43.1	33.3	25.1	11.4	5.8	4.6	4.6
25°	174.2	162.0	137.9	104.1	73.4	52.1	36.5	12.8	5.2	4.0	4.2
27.5°	318.0	307.0	258.6	194.7	129.3	78.6	49.5	14.6	4.6	3.4	3.8
30°	505.9	475.6	412.4	319.2	216.1	120.3	66.4	16.6	3.8	3.0	3.6
31°	564.6	550.6	473.6	369.3	253.2	142.8	73.6	17.2	3.6	3.0	3.4
32°	634.2	609.5	540.4	424.1	290.9	163.0	82.2	17.8	3.4	2.6	3.4
33°	696.5	672.5	588.5	472.4	329.0	185.9	91.4	18.0	3.0	2.6	3.2
34°	761.9	729.2	646.0	522.9	368.1	210.7	99.7	18.2	2.8	2.4	3.2
35°	808.8	776.1	695.5	562.8	401.8	232.6	109.3	18.2	2.6	2.4	3.0
36°	845.1	816.4	738.1	603.9	435.3	252.4	116.9	18.2	2.2	2.2	3.0
37°	870.0	842.7	766.9	639.2	460.8	269.9	123.7	18.2	2.0	2.2	3.0
38°	882.2	859.4	794.6	664.9	485.6	283.7	129.1	17.8	1.8	2.0	2.8
39°	887.4	868.8	811.6	686.7	504.1	295.7	133.1	17.4	1.6	2.0	2.8
40°	886.6	870.4	821.1	701.6	519.1	303.8	135.3	16.8	1.4	1.8	2.8
41°	882.0	868.0	826.1	714.4	528.1	309.4	135.9	16.2	1.2	1.8	2.6
42°	876.8	864.0	827.7	721.2	533.9	311.2	134.3	15.4	1.2	1.6	2.6
43°	871.4	859.6	827.7	723.4	535.3	310.0	131.7	14.0	1.0	1.6	2.6
44°	867.0	855.9	825.1	722.8	532.3	305.4	126.9	12.4	0.8	1.6	2.6
45°	861.8	850.9	821.7	719.0	526.5	297.7	120.9	11.0	0.6	1.4	2.6
46°	852.7	844.1	815.8	711.2	517.3	286.9	113.3	10.0	0.4	1.4	2.4
47°	834.9	827.5	804.2	699.6	505.1	274.1	105.5	9.0	0.4	1.4	2.4
48°	799.2	799.0	781.0	678.1	485.8	258.2	97.4	8.0	0.4	1.4	2.4
49°	764.7	761.1	738.7	640.2	458.1	239.0	88.8	7.2	0.2	1.4	2.4
50°	745.7	737.9	701.2	595.5	422.5	212.5	79.6	6.0	0.2	1.2	2.4
51°	726.0	714.8	671.5	555.2	380.2	186.9	69.6	4.8	0.2	1.2	2.2
52°	690.3	679.7	631.2	516.7	339.1	160.8	60.0	4.0	0.2	1.2	2.4
53°	651.8	636.6	583.9	474.4	303.0	137.7	50.3	3.4	0.2	1.2	2.2
54°	603.3	596.5	536.1	422.5	260.7	115.3	41.3	2.8	0.2	1.2	2.2
55°	557.6	547.6	484.8	369.5	222.4	94.6	34.5	2.2	0.2	1.2	2.2
56°	499.3	484.4	425.5	320.8	183.5	76.2	29.1	1.8	0.2	1.2	2.2
57°	429.9	414.0	367.5	266.7	144.0	58.1	24.3	1.4	0.2	1.2	2.2
58°	363.7	349.9	300.0	205.9	108.5	40.3	20.1	1.0	0.2	1.0	2.2
59°	314.2	299.1	249.6	158.4	75.4	29.7	15.2	0.8	0.2	1.2	2.2
60°	272.1	252.6	200.9	122.7	53.9	21.3	11.2	0.4	0.4	1.2	2.2
62.5°	156.8	138.5	96.0	49.9	22.1	11.0	5.4	0.2	0.4	1.2	2.2
65°	39.7	35.3	22.9	10.8	6.2	3.8	2.0	0.2	0.4	1.0	2.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
67.5°	1.4	1.4	1.4	1.2	1.0	0.8	0.4	0.2	0.4	1.0	2.0
70°	0.6	0.6	0.6	0.4	0.4	0.2	0.2	0.2	0.4	1.0	1.8
72.5°	0.4	0.4	0.4	0.4	0.2	0.2	0.2	0.2	0.6	1.0	1.6
75°	0.4	0.4	0.4	0.4	0.2	0.2	0.2	0.2	0.6	1.0	1.6
77.5°	0.4	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.6	0.8	1.4
80°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.6	0.8	1.2
82.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.6	0.8	1.0
85°	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.2	0.6	0.8	0.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.6	0.8	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):

	135°	157.5°	180°
0°	10.2	10.2	10.2
2.5°	9.6	9.6	9.6
5°	9.0	9.0	8.8
7.5°	8.4	8.2	8.2
10°	7.6	7.6	7.6
12.5°	7.0	7.0	7.0
15°	6.4	6.6	6.6
17.5°	5.8	6.2	6.2
20°	5.4	5.8	6.0
22.5°	5.0	5.4	5.6
25°	4.8	5.2	5.4
27.5°	4.4	5.0	5.4
30°	4.2	4.8	5.2
31°	4.2	4.8	5.0
32°	4.0	4.8	5.0
33°	4.0	4.8	5.0
34°	4.0	4.6	5.0
35°	3.8	4.6	4.8
36°	3.8	4.6	4.8
37°	3.8	4.6	5.0
38°	3.8	4.6	4.8
39°	3.6	4.6	4.8
40°	3.6	4.6	4.8
41°	3.6	4.6	4.8
42°	3.6	4.6	4.8
43°	3.6	4.6	4.8
44°	3.6	4.4	4.8
45°	3.6	4.4	4.8
46°	3.6	4.6	4.8
47°	3.6	4.6	5.0
48°	3.6	4.4	4.8
49°	3.4	4.4	4.8
50°	3.4	4.4	4.8
51°	3.4	4.6	5.0
52°	3.4	4.6	5.0
53°	3.4	4.6	5.0
54°	3.4	4.6	4.8
55°	3.4	4.6	5.0
56°	3.4	4.6	4.8
57°	3.4	4.6	4.8
58°	3.4	4.4	4.8
59°	3.4	4.4	4.8
60°	3.4	4.4	4.8
62.5°	3.2	4.4	4.8
65°	3.2	4.2	4.6



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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
67.5°	3.0	4.2	4.4
70°	2.8	4.0	4.2
72.5°	2.6	3.8	4.0
75°	2.4	3.4	3.6
77.5°	2.0	3.0	3.4
80°	1.8	2.6	2.8
82.5°	1.4	2.2	2.4
85°	1.0	1.6	1.6
87.5°	0.4	0.8	0.8
90°	0.0	0.0	0.0

(END OF REPORT)