

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: P1345713

Luminaire Tested: P3A13R35B2750DE010 E3CA451MMS_5000K

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1345713
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: P3A13R35B2750DE010 E3CA451MMS_5000K
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R35 optic, 5000K CCT AND, 80CRI , E3CA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

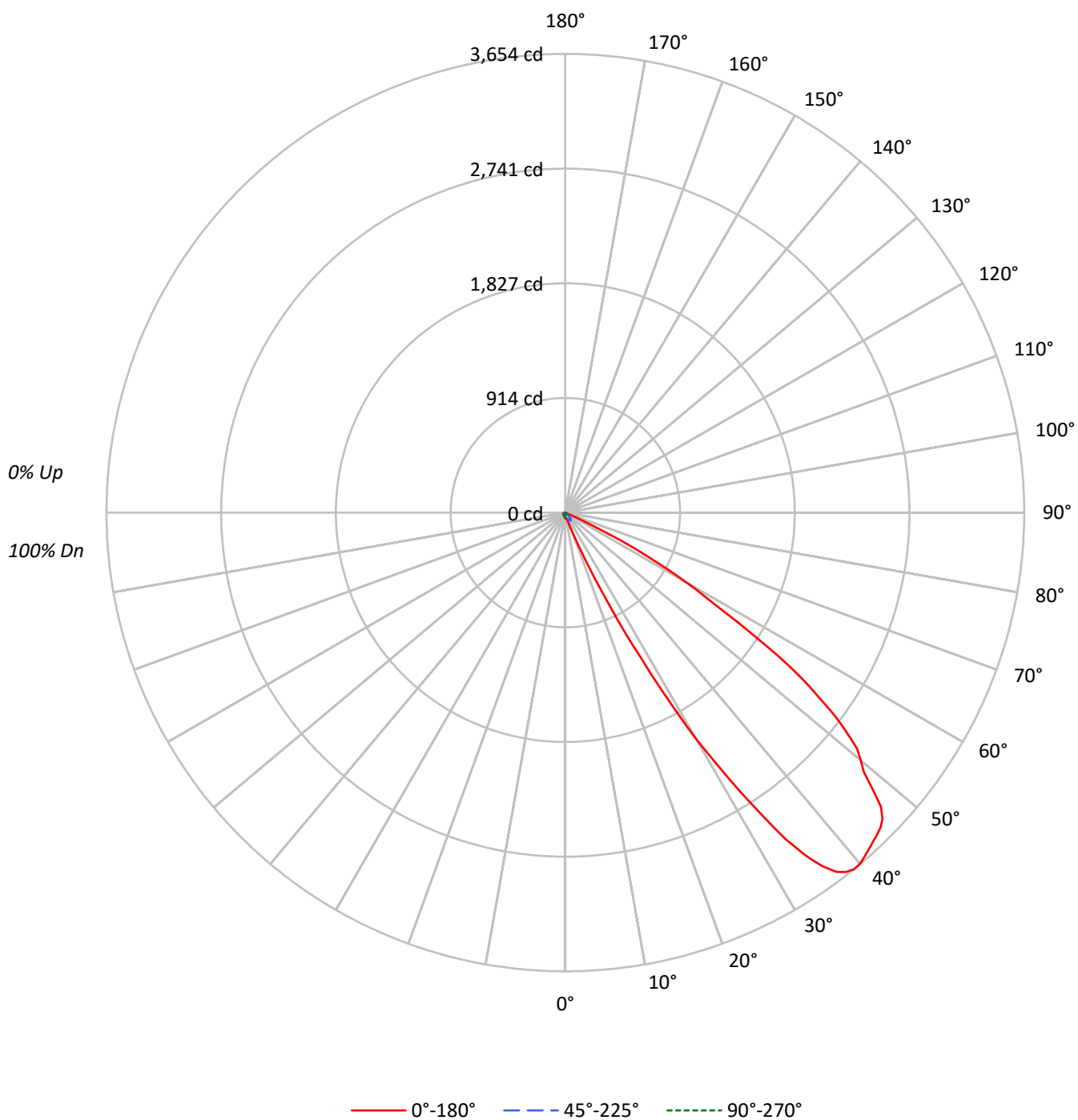
Lumens per Lamp: N/A
Luminaire Lumens: 910.0 lumens
Efficiency: N/A
Efficacy: 47.6 lumens/watt
Spacing Criteria (0/90/45): 4.01 / 0.66 / 1.41
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 19.1
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°	9188	9188	9188	9188	9188
5°	9949	9773	9047	8144	7946
10°	10421	9508	8038	6947	6947
15°	14915	9330	6538	5971	6152
20°	37383	9964	5180	5180	5740
25°	173502	12727	3968	4766	5371
30°	527474	17268	3114	4380	5419
35°	891469	20023	2650	4176	5274
40°	1044986	19751	2118	4237	5639
45°	1100486	14017	1799	4590	6109
50°	1047539	8392	1672	4776	6720
55°	877770	3441	1873	5352	7837
60°	491408	702	2149	6140	8640
65°	84834	415	2127	6797	9806
70°	1603	513	2629	7373	11092
75°	1356	678	3474	8388	12539
80°	1010	1010	4167	9345	14522
85°	0	2013	8303	10315	16605

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 46°

Luminance: 1108307 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.8	0.4
10°-20°	10.7	1.2
20°-30°	55.8	6.1
30°-40°	241.1	26.5
40°-50°	344.0	37.8
50°-60°	213.0	23.4
60°-70°	32.4	3.6
70°-80°	6.1	0.7
80°-90°	3.0	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°	70.3	7.7
0°-40°	311.5	34.2
0°-60°	868.5	95.4
0°-90°	910.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	910.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	42	42	42	42	42	
5°	45	44	41	37	36	4
15°	66	41	29	26	27	24
25°	717	53	16	20	22	429
35°	3330	75	10	16	20	2000
45°	3549	45	6	15	20	2681
55°	2296	9	5	14	20	1955
65°	164	1	4	13	19	334
75°	2	1	4	10	15	2
85°	0	1	3	4	7	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°	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9
2.5°	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	41.9	41.1
5°	45.2	45.2	44.4	44.4	44.4	44.4	44.4	44.4	42.7	41.1	38.6
7.5°	46.0	46.0	45.2	45.2	45.2	45.2	44.4	43.5	41.9	38.6	36.1
10°	46.8	46.8	46.8	46.8	46.0	45.2	44.4	42.7	40.3	36.1	33.7
12.5°	52.6	52.6	51.8	50.1	48.5	46.8	45.2	41.9	37.0	32.9	30.4
15°	65.7	64.9	63.3	60.8	57.5	53.4	50.1	41.1	33.7	28.8	27.1
17.5°	92.0	90.4	87.9	79.7	72.3	64.9	58.3	41.1	30.4	25.5	23.8
20°	160.2	161.0	143.8	124.0	107.6	89.5	73.1	42.7	27.1	22.2	21.4
22.5°	334.3	321.2	280.1	232.5	177.4	137.2	103.5	46.8	23.8	18.9	18.9
25°	717.1	667.0	567.6	428.8	302.3	214.4	150.3	52.6	21.4	16.4	17.3
27.5°	1309.4	1264.2	1064.6	801.8	532.3	323.7	203.7	60.0	18.9	14.0	15.6
30°	2083.2	1958.4	1698.0	1314.4	889.7	495.3	273.5	68.2	15.6	12.3	14.8
31°	2324.8	2267.3	1950.2	1520.5	1042.4	588.2	303.1	70.6	14.8	12.3	14.0
32°	2611.5	2509.6	2225.4	1746.4	1197.7	671.1	338.4	73.1	14.0	10.7	14.0
33°	2867.8	2769.2	2423.3	1945.2	1354.6	765.6	376.2	73.9	12.3	10.7	13.1
34°	3137.2	3002.5	2659.9	2153.1	1515.6	867.5	410.7	74.8	11.5	9.9	13.1
35°	3330.2	3195.5	2863.6	2317.4	1654.4	957.8	450.2	74.8	10.7	9.9	12.3
36°	3479.7	3361.5	3039.4	2486.6	1792.4	1039.2	481.4	74.8	9.0	9.0	12.3
37°	3582.4	3469.9	3157.7	2632.0	1897.6	1111.4	509.3	74.8	8.2	9.0	12.3
38°	3632.5	3538.9	3271.9	2738.0	1999.5	1168.1	531.5	73.1	7.4	8.2	11.5
39°	3653.9	3577.5	3341.7	2827.5	2075.9	1217.4	547.9	71.5	6.6	8.2	11.5
40°	3650.6	3584.1	3381.2	2889.1	2137.5	1251.1	557.0	69.0	5.8	7.4	11.5
41°	3631.7	3574.2	3401.7	2941.7	2174.4	1274.1	559.4	66.5	4.9	7.4	10.7
42°	3610.4	3557.8	3408.3	2969.6	2198.3	1281.5	552.8	63.3	4.9	6.6	10.7
43°	3588.2	3539.7	3408.3	2978.6	2204.0	1276.6	542.2	57.5	4.1	6.6	10.7
44°	3570.1	3524.1	3397.6	2976.2	2191.7	1257.7	522.5	50.9	3.3	6.6	10.7
45°	3548.7	3503.6	3383.6	2960.6	2167.9	1225.6	497.8	45.2	2.5	5.8	10.7
46°	3511.0	3475.6	3359.0	2928.5	2130.1	1181.3	466.6	41.1	1.6	5.8	9.9
47°	3437.9	3407.5	3311.3	2880.9	2080.0	1128.7	434.6	37.0	1.6	5.8	9.9
48°	3290.8	3290.0	3216.1	2792.2	2000.3	1063.0	400.9	32.9	1.6	5.8	9.9
49°	3148.7	3133.9	3041.9	2636.1	1886.1	984.1	365.6	29.6	0.8	5.8	9.9
50°	3070.7	3038.6	2887.5	2452.1	1739.9	874.9	327.8	24.6	0.8	4.9	9.9
51°	2989.3	2943.3	2765.1	2286.2	1565.7	769.7	286.7	19.7	0.8	4.9	9.0
52°	2842.3	2798.7	2599.1	2127.6	1396.5	662.1	247.3	16.4	0.8	4.9	9.9
53°	2683.7	2621.3	2404.4	1953.5	1247.8	566.8	207.0	14.0	0.8	4.9	9.0
54°	2484.1	2456.2	2207.3	1739.9	1073.7	474.8	170.0	11.5	0.8	4.9	9.0
55°	2296.0	2254.9	1996.2	1521.4	915.9	389.4	142.1	9.0	0.8	4.9	9.0
56°	2056.1	1994.5	1752.2	1320.9	755.8	313.8	119.9	7.4	0.8	4.9	9.0
57°	1770.3	1704.5	1513.1	1098.3	593.1	239.0	100.2	5.8	0.8	4.9	9.0
58°	1497.5	1440.9	1235.5	847.8	446.9	165.9	83.0	4.1	0.8	4.1	9.0
59°	1293.8	1231.4	1027.7	652.2	310.5	122.4	62.4	3.3	0.8	4.9	9.0
60°	1120.5	1040.0	827.2	505.2	221.8	87.9	46.0	1.6	1.6	4.9	9.0
62.5°	645.7	570.1	395.1	205.4	91.2	45.2	22.2	0.8	1.6	4.9	9.0
65°	163.5	145.4	94.5	44.4	25.5	15.6	8.2	0.8	1.6	4.1	8.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
67.5°	5.8	5.8	5.8	4.9	4.1	3.3	1.6	0.8	1.6	4.1	8.2
70°	2.5	2.5	2.5	1.6	1.6	0.8	0.8	0.8	1.6	4.1	7.4
72.5°	1.6	1.6	1.6	1.6	0.8	0.8	0.8	0.8	2.5	4.1	6.6
75°	1.6	1.6	1.6	1.6	0.8	0.8	0.8	0.8	2.5	4.1	6.6
77.5°	1.6	1.6	0.8	0.8	0.8	0.8	0.8	0.8	2.5	3.3	5.8
80°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	2.5	3.3	4.9
82.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	2.5	3.3	4.1
85°	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.8	2.5	3.3	3.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.5	3.3	2.5
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°	41.9	41.9	41.9
2.5°	39.4	39.4	39.4
5°	37.0	37.0	36.1
7.5°	34.5	33.7	33.7
10°	31.2	31.2	31.2
12.5°	28.8	28.8	28.8
15°	26.3	27.1	27.1
17.5°	23.8	25.5	25.5
20°	22.2	23.8	24.6
22.5°	20.5	22.2	23.0
25°	19.7	21.4	22.2
27.5°	18.1	20.5	22.2
30°	17.3	19.7	21.4
31°	17.3	19.7	20.5
32°	16.4	19.7	20.5
33°	16.4	19.7	20.5
34°	16.4	18.9	20.5
35°	15.6	18.9	19.7
36°	15.6	18.9	19.7
37°	15.6	18.9	20.5
38°	15.6	18.9	19.7
39°	14.8	18.9	19.7
40°	14.8	18.9	19.7
41°	14.8	18.9	19.7
42°	14.8	18.9	19.7
43°	14.8	18.9	19.7
44°	14.8	18.1	19.7
45°	14.8	18.1	19.7
46°	14.8	18.9	19.7
47°	14.8	18.9	20.5
48°	14.8	18.1	19.7
49°	14.0	18.1	19.7
50°	14.0	18.1	19.7
51°	14.0	18.9	20.5
52°	14.0	18.9	20.5
53°	14.0	18.9	20.5
54°	14.0	18.9	19.7
55°	14.0	18.9	20.5
56°	14.0	18.9	19.7
57°	14.0	18.9	19.7
58°	14.0	18.1	19.7
59°	14.0	18.1	19.7
60°	14.0	18.1	19.7
62.5°	13.1	18.1	19.7
65°	13.1	17.3	18.9



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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
67.5°	12.3	17.3	18.1
70°	11.5	16.4	17.3
72.5°	10.7	15.6	16.4
75°	9.9	14.0	14.8
77.5°	8.2	12.3	14.0
80°	7.4	10.7	11.5
82.5°	5.8	9.0	9.9
85°	4.1	6.6	6.6
87.5°	1.6	3.3	3.3
90°	0.0	0.0	0.0

(END OF REPORT)