

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: P1343693

Luminaire Tested: P3A13R15B2750DE010 E3CA451MMS_5000K

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1343693
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: P3A13R15B2750DE010 E3CA451MMS_5000K
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R15 optic, 5000K CCT AND, 80CRI , E3CA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

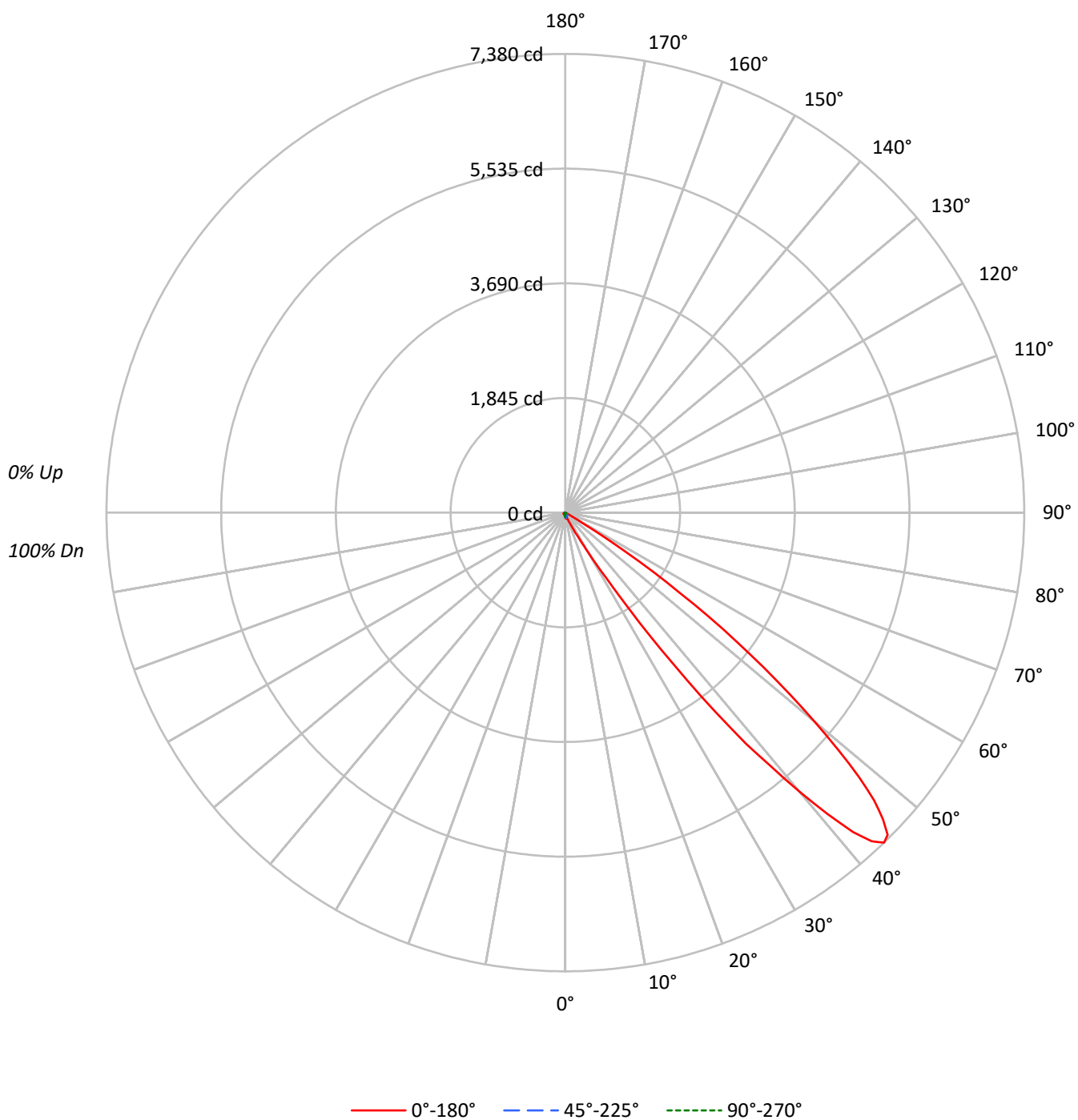
Lumens per Lamp: N/A
Luminaire Lumens: 824.0 lumens
Efficiency: N/A
Efficacy: 43.1 lumens/watt
Spacing Criteria (0/90/45): 3.26 / 0.47 / 1.08
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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	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°	16029	16029	16029	16029	16029
5°	19899	17720	14462	12657	12481
10°	19572	15186	11155	9886	10064
15°	16232	10829	8014	8218	8763
20°	28189	8634	6137	7094	8051
25°	62810	10331	4960	6557	7549
30°	187852	12685	4380	6457	7900
35°	723144	14295	3962	6585	8352
40°	1678516	12452	3750	6813	8931
45°	2273476	9427	3318	7381	9675
50°	1782594	5595	3377	7846	10644
55°	855635	2523	3135	8487	11622
60°	78195	351	2895	8991	12981
65°	8509	0	2542	9391	14061
70°	2116	0	3142	10002	15259
75°	2118	678	4151	11099	17368
80°	2020	2020	5177	11365	18689
85°	2013	2013	8303	10315	20631

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2273476 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.2	0.8
10°-20°	13.0	1.6
20°-30°	31.1	3.8
30°-40°	170.4	20.7
40°-50°	412.7	50.1
50°-60°	164.7	20.0
60°-70°	14.2	1.7
70°-80°	8.0	1.0
80°-90°	3.5	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°	50.4	6.1
0°-40°	220.8	26.8
0°-60°	798.2	96.9
0°-90°	824.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	824.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	73	73	73	73	73	
5°	90	80	66	58	57	9
15°	72	48	35	36	39	25
25°	260	43	20	27	31	157
35°	2701	53	15	25	31	1909
45°	7331	30	11	24	31	5172
55°	2238	7	8	22	30	2085
65°	16	0	5	18	27	42
75°	2	1	5	13	20	2
85°	1	1	3	4	8	1
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°	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1
2.5°	82.2	82.2	83.0	82.2	82.2	82.2	82.2	81.3	81.3	81.3	78.9
5°	90.4	90.4	90.4	90.4	89.6	89.6	89.6	88.7	88.7	87.9	80.5
7.5°	93.7	93.7	92.8	92.8	92.0	92.0	91.2	90.4	89.6	88.7	77.2
10°	87.9	87.9	87.9	87.1	87.1	86.3	85.4	84.6	83.8	82.2	68.2
12.5°	78.1	78.1	78.9	78.1	77.2	76.4	74.8	73.9	73.1	71.5	56.7
15°	71.5	71.5	71.5	70.7	69.8	68.2	67.4	65.7	64.9	62.4	47.7
17.5°	91.2	91.2	90.4	88.7	85.4	83.0	78.9	75.6	71.5	66.6	41.1
20°	120.8	120.8	119.1	117.5	113.4	109.3	102.7	96.9	90.4	84.6	37.0
22.5°	175.0	177.5	172.5	166.8	161.0	151.2	142.1	133.1	121.6	111.7	37.8
25°	259.6	262.1	259.6	246.5	235.8	222.7	205.4	187.3	167.6	149.5	42.7
27.5°	420.7	422.3	418.2	386.2	368.9	334.4	304.0	274.4	241.6	208.7	46.8
30°	741.9	742.7	716.4	652.4	595.7	520.1	456.0	394.4	342.6	290.0	50.1
31°	976.9	953.9	898.0	820.8	730.4	628.5	540.6	460.9	383.7	327.0	50.9
32°	1240.6	1237.3	1144.5	1010.6	889.8	762.4	630.2	528.3	439.6	362.3	51.8
33°	1589.8	1591.4	1445.2	1287.5	1089.4	918.6	745.2	605.5	498.7	404.2	53.4
34°	2135.4	2007.2	1835.5	1621.8	1352.4	1095.2	870.1	695.1	552.1	444.5	53.4
35°	2701.4	2572.4	2383.5	2059.8	1690.0	1330.2	1018.8	791.2	616.2	488.0	53.4
36°	3335.7	3226.4	2940.5	2527.3	2055.7	1552.0	1176.5	902.1	679.5	527.5	52.6
37°	4020.9	3860.7	3543.6	3092.5	2461.5	1864.2	1368.8	1012.2	742.7	570.2	50.9
38°	4716.8	4572.2	4172.1	3625.7	2946.3	2193.7	1561.1	1118.2	801.1	602.2	48.5
39°	5244.3	5165.4	4768.6	4158.1	3333.3	2505.9	1759.1	1231.6	862.7	634.3	46.0
40°	5863.8	5736.4	5360.2	4605.1	3790.9	2823.9	1953.0	1331.8	913.6	659.7	43.5
41°	6429.1	6268.0	5793.1	5063.6	4157.3	3109.8	2137.0	1435.3	954.7	674.5	41.9
42°	6913.8	6726.5	6230.2	5456.3	4463.8	3338.2	2284.1	1509.3	993.3	686.9	39.4
43°	7227.7	7065.8	6577.8	5751.2	4725.9	3547.7	2421.3	1586.5	1017.1	695.1	36.2
44°	7380.5	7217.0	6744.6	5936.1	4886.9	3673.4	2510.0	1639.9	1043.4	705.8	33.7
45°	7331.2	7165.2	6708.4	5939.4	4937.0	3718.6	2547.8	1663.8	1057.4	715.6	30.4
46°	7105.2	6988.6	6528.5	5784.9	4841.7	3670.1	2526.4	1645.7	1052.5	715.6	27.1
47°	6788.1	6655.0	6217.1	5519.5	4610.9	3545.2	2440.2	1590.6	1022.1	699.2	23.8
48°	6355.9	6242.6	5782.5	5098.1	4256.7	3273.3	2245.4	1501.1	974.4	667.1	20.5
49°	5813.7	5655.9	5227.9	4559.1	3795.0	2887.1	1989.9	1349.9	898.0	622.0	18.1
50°	5225.4	5030.7	4700.4	4019.3	3317.6	2475.5	1653.9	1141.2	790.4	562.8	16.4
51°	4649.5	4451.5	4136.8	3557.6	2808.2	2054.0	1334.3	911.2	650.7	481.5	14.0
52°	4052.2	3886.2	3533.7	3078.6	2404.0	1664.6	1111.6	770.7	540.6	404.2	11.5
53°	3457.3	3343.9	3008.7	2547.8	1931.6	1359.8	907.9	659.7	471.6	345.9	9.0
54°	2861.7	2737.6	2482.9	2072.1	1556.9	1073.0	769.8	552.1	409.2	301.5	8.2
55°	2238.1	2174.0	1939.0	1579.9	1179.8	856.1	624.4	474.9	342.6	252.2	6.6
56°	1723.7	1651.4	1437.0	1146.1	876.7	670.4	505.3	387.8	290.0	211.2	4.9
57°	1128.9	1054.9	912.8	800.2	638.4	488.9	386.2	305.6	235.8	175.0	4.1
58°	667.1	599.8	577.6	493.0	425.6	331.9	285.1	227.6	174.2	138.0	2.5
59°	306.5	311.4	276.9	259.6	235.8	211.2	173.4	152.0	119.1	99.4	1.6
60°	178.3	168.4	164.3	147.1	130.6	115.8	104.3	92.0	74.8	64.1	0.8
62.5°	60.8	58.3	60.0	54.2	50.9	49.3	45.2	38.6	32.0	26.3	0.0
65°	16.4	16.4	15.6	14.8	14.0	13.1	12.3	10.7	9.9	8.2	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°	5.8	5.8	4.9	4.9	4.1	4.1	3.3	3.3	2.5	2.5	0.0
70°	3.3	3.3	3.3	2.5	2.5	2.5	1.6	1.6	1.6	0.8	0.0
72.5°	2.5	2.5	2.5	2.5	2.5	2.5	1.6	1.6	1.6	0.8	0.8
75°	2.5	2.5	2.5	1.6	1.6	1.6	1.6	1.6	1.6	1.6	0.8
77.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
80°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	0.8	1.6
82.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.6
85°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
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°	73.1	73.1	73.1	73.1	73.1	73.1
2.5°	75.6	72.3	68.2	65.7	64.9	64.1
5°	72.3	65.7	60.8	57.5	56.7	56.7
7.5°	64.9	57.5	52.6	50.9	50.1	50.1
10°	56.7	50.1	46.0	44.4	45.2	45.2
12.5°	47.7	41.9	40.3	40.3	41.1	41.9
15°	38.6	35.3	35.3	36.2	37.8	38.6
17.5°	32.0	30.4	31.2	32.9	34.5	36.2
20°	26.3	26.3	27.9	30.4	32.9	34.5
22.5°	22.2	23.0	25.5	27.9	31.2	32.9
25°	18.9	20.5	23.0	27.1	30.4	31.2
27.5°	16.4	18.9	22.2	26.3	29.6	31.2
30°	14.0	17.3	21.4	25.5	29.6	31.2
31°	13.1	16.4	20.5	25.5	29.6	31.2
32°	12.3	16.4	20.5	25.5	29.6	31.2
33°	11.5	15.6	20.5	24.6	29.6	31.2
34°	10.7	15.6	20.5	25.5	29.6	31.2
35°	9.9	14.8	19.7	24.6	28.8	31.2
36°	9.0	14.8	19.7	24.6	29.6	31.2
37°	8.2	14.8	19.7	24.6	28.8	31.2
38°	8.2	14.0	18.9	24.6	28.8	31.2
39°	7.4	13.1	18.9	24.6	28.8	31.2
40°	6.6	13.1	18.1	23.8	28.8	31.2
41°	5.8	12.3	18.1	23.8	28.8	31.2
42°	4.9	12.3	18.1	23.8	28.8	31.2
43°	4.1	11.5	17.3	23.8	28.8	31.2
44°	4.1	11.5	17.3	23.8	28.8	31.2
45°	3.3	10.7	16.4	23.8	28.8	31.2
46°	3.3	10.7	16.4	23.0	28.8	31.2
47°	2.5	10.7	16.4	23.0	28.8	31.2
48°	2.5	9.9	16.4	23.0	28.8	31.2
49°	1.6	9.9	16.4	23.0	28.8	31.2
50°	1.6	9.9	15.6	23.0	28.8	31.2
51°	1.6	9.9	15.6	23.0	28.8	31.2
52°	1.6	9.0	15.6	23.0	28.8	31.2
53°	1.6	9.0	15.6	23.0	28.8	31.2
54°	1.6	9.0	14.8	23.0	28.8	31.2
55°	1.6	8.2	14.8	22.2	28.8	30.4
56°	1.6	8.2	14.8	22.2	28.8	30.4
57°	1.6	8.2	14.0	22.2	28.8	30.4
58°	1.6	7.4	14.0	21.4	27.9	30.4
59°	1.6	7.4	13.1	21.4	27.9	29.6
60°	1.6	6.6	13.1	20.5	27.1	29.6
62.5°	1.6	5.8	11.5	19.7	26.3	27.9
65°	1.6	4.9	10.7	18.1	25.5	27.1



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	1.6	4.9	9.9	17.3	23.8	26.3
70°	1.6	4.9	9.0	15.6	23.0	23.8
72.5°	2.5	4.9	8.2	14.8	21.4	22.2
75°	3.3	4.9	7.4	13.1	19.7	20.5
77.5°	3.3	4.9	6.6	11.5	17.3	18.1
80°	3.3	4.1	5.8	9.0	14.0	14.8
82.5°	3.3	4.1	4.1	7.4	10.7	11.5
85°	2.5	3.3	3.3	4.1	7.4	8.2
87.5°	2.5	3.3	1.6	2.5	3.3	3.3
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)