

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: P1343689

Luminaire Tested: P3A13R15B2750DE010 E3CA451MMS_2700K

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1343689
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_2700K
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R15 optic, 2700K CCT AND, 90CRI , E3CA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

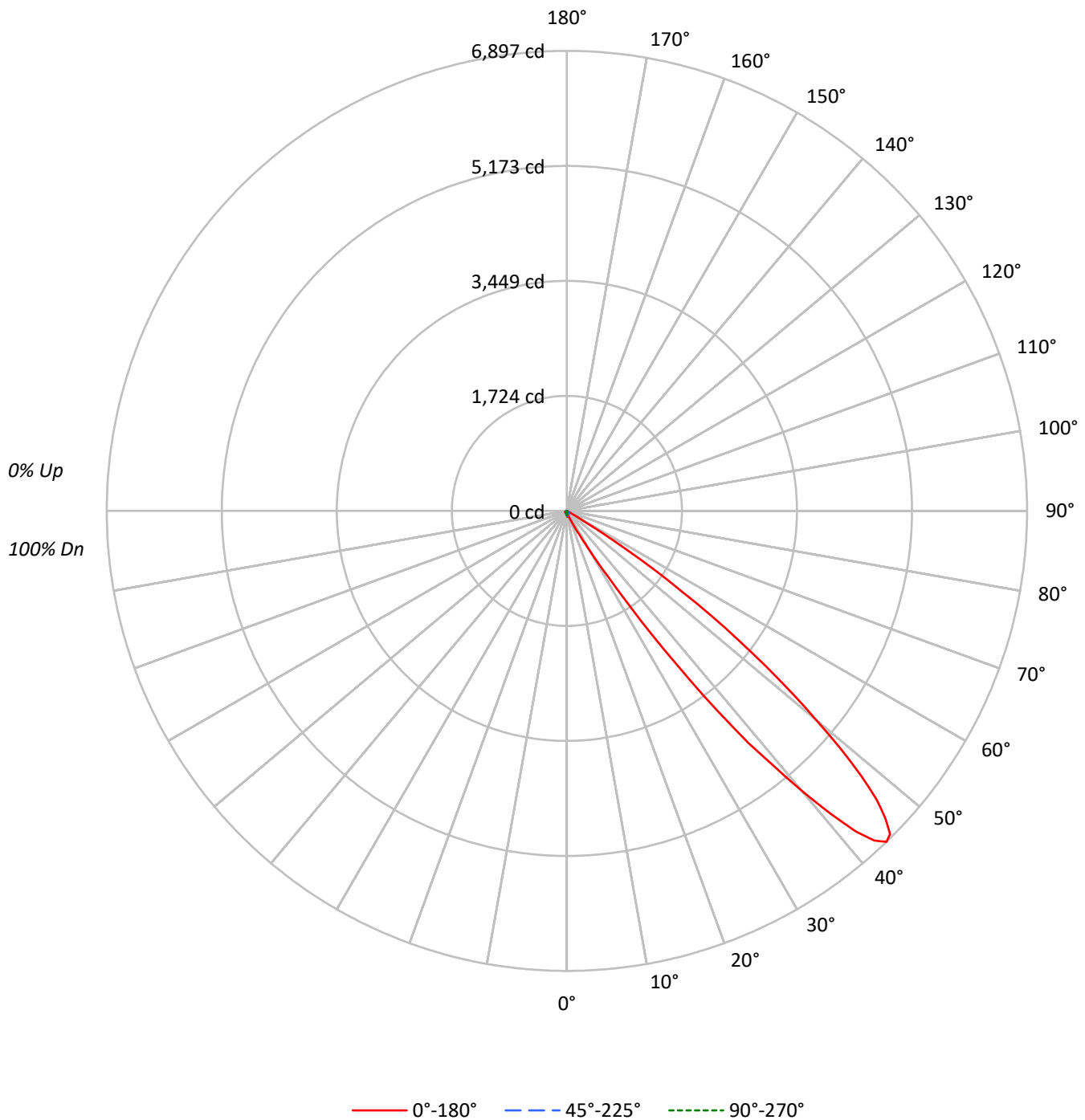
Lumens per Lamp: N/A
Luminaire Lumens: 770.0 lumens
Efficiency: N/A
Efficacy: 40.3 lumens/watt
Spacing Criteria (0/90/45): 3.26 / 0.47 / 1.08
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	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°	14977	14977	14977	14977	14977
5°	18600	16553	13515	11820	11666
10°	18303	14184	10421	9241	9396
15°	15165	10102	7492	7673	8195
20°	26346	8051	5740	6627	7514
25°	58697	9654	4645	6121	7065
30°	175546	11850	4077	6026	7394
35°	675762	13358	3694	6157	7817
40°	1568510	11650	3521	6383	8359
45°	2124469	8807	3101	6915	9055
50°	1665787	5254	3138	7335	9961
55°	799551	2332	2944	7914	10857
60°	73064	351	2675	8420	12104
65°	7990	0	2387	8769	13127
70°	1988	0	2949	9361	14297
75°	1949	678	3897	10421	16267
80°	1894	1894	4799	10607	17426
85°	2013	2013	7799	9561	19373

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2124469 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.8	0.8
10°-20°	12.1	1.6
20°-30°	29.1	3.8
30°-40°	159.3	20.7
40°-50°	385.7	50.1
50°-60°	153.9	20.0
60°-70°	13.3	1.7
70°-80°	7.5	1.0
80°-90°	3.3	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°	47.1	6.1
0°-40°	206.3	26.8
0°-60°	745.9	96.9
0°-90°	770.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	770.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	68	68	68	68	68	
5°	84	75	61	54	53	8
15°	67	44	33	34	36	23
25°	243	40	19	25	29	146
35°	2524	50	14	23	29	1784
45°	6851	28	10	22	29	4833
55°	2091	6	8	21	28	1948
65°	15	0	5	17	25	39
75°	2	1	5	12	19	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°	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3
2.5°	76.8	76.8	77.5	76.8	76.8	76.8	76.8	76.0	76.0	76.0	73.7
5°	84.5	84.5	84.5	84.5	83.7	83.7	83.7	82.9	82.9	82.2	75.2
7.5°	87.5	87.5	86.8	86.8	86.0	86.0	85.2	84.5	83.7	82.9	72.2
10°	82.2	82.2	82.2	81.4	81.4	80.6	79.8	79.1	78.3	76.8	63.7
12.5°	72.9	72.9	73.7	72.9	72.2	71.4	69.9	69.1	68.3	66.8	53.0
15°	66.8	66.8	66.8	66.0	65.3	63.7	63.0	61.4	60.7	58.3	44.5
17.5°	85.2	85.2	84.5	82.9	79.8	77.5	73.7	70.6	66.8	62.2	38.4
20°	112.9	112.9	111.3	109.8	106.0	102.1	96.0	90.6	84.5	79.1	34.5
22.5°	163.5	165.8	161.2	155.9	150.5	141.3	132.8	124.4	113.6	104.4	35.3
25°	242.6	244.9	242.6	230.3	220.3	208.1	191.9	175.0	156.6	139.7	39.9
27.5°	393.1	394.6	390.8	360.8	344.7	312.5	284.1	256.4	225.7	195.0	43.8
30°	693.3	694.1	669.5	609.6	556.6	486.0	426.1	368.5	320.2	271.0	46.8
31°	912.9	891.4	839.2	767.0	682.5	587.3	505.2	430.7	358.5	305.6	47.6
32°	1159.3	1156.3	1069.5	944.3	831.5	712.5	588.9	493.7	410.8	338.6	48.4
33°	1485.6	1487.2	1350.5	1203.1	1018.1	858.4	696.4	565.8	466.0	377.7	49.9
34°	1995.4	1875.6	1715.2	1515.6	1263.7	1023.4	813.1	649.5	515.9	415.4	49.9
35°	2524.4	2403.9	2227.3	1924.8	1579.3	1243.0	952.0	739.4	575.8	456.1	49.9
36°	3117.1	3015.0	2747.8	2361.6	1920.9	1450.3	1099.4	843.0	634.9	492.9	49.1
37°	3757.4	3607.7	3311.4	2889.9	2300.2	1742.1	1279.1	945.9	694.1	532.8	47.6
38°	4407.7	4272.6	3898.7	3388.1	2753.2	2049.9	1458.7	1044.9	748.6	562.8	45.3
39°	4900.6	4826.9	4456.1	3885.6	3114.8	2341.7	1643.8	1150.9	806.2	592.7	43.0
40°	5479.5	5360.5	5008.9	4303.3	3542.5	2638.8	1825.0	1244.5	853.8	616.5	40.7
41°	6007.7	5857.3	5413.5	4731.7	3884.9	2906.0	1997.0	1341.3	892.1	630.3	39.2
42°	6460.7	6285.7	5821.9	5098.7	4171.3	3119.4	2134.4	1410.4	928.2	641.8	36.9
43°	6754.0	6602.8	6146.7	5374.3	4416.2	3315.2	2262.6	1482.5	950.5	649.5	33.8
44°	6896.8	6744.0	6302.6	5547.1	4566.7	3432.7	2345.5	1532.5	975.1	659.5	31.5
45°	6850.7	6695.7	6268.8	5550.2	4613.5	3474.9	2380.8	1554.7	988.1	668.7	28.4
46°	6639.6	6530.6	6100.6	5405.8	4524.4	3429.6	2360.9	1537.8	983.5	668.7	25.3
47°	6343.3	6218.9	5809.7	5157.8	4308.7	3312.9	2280.3	1486.4	955.1	653.4	22.3
48°	5939.4	5833.5	5403.5	4764.0	3977.8	3058.8	2098.3	1402.7	910.6	623.4	19.2
49°	5432.7	5285.3	4885.3	4260.3	3546.3	2697.9	1859.5	1261.4	839.2	581.2	16.9
50°	4883.0	4701.0	4392.4	3755.9	3100.2	2313.3	1545.5	1066.4	738.6	525.9	15.4
51°	4344.8	4159.7	3865.7	3324.4	2624.2	1919.4	1246.8	851.4	608.1	449.9	13.1
52°	3786.6	3631.5	3302.1	2876.8	2246.5	1555.5	1038.8	720.2	505.2	377.7	10.7
53°	3230.7	3124.8	2811.5	2380.8	1805.0	1270.6	848.4	616.5	440.7	323.2	8.4
54°	2674.1	2558.2	2320.2	1936.3	1454.9	1002.7	719.4	515.9	382.3	281.8	7.7
55°	2091.4	2031.5	1811.9	1476.4	1102.5	800.0	583.5	443.8	320.2	235.7	6.1
56°	1610.8	1543.2	1342.8	1071.0	819.2	626.5	472.2	362.4	271.0	197.3	4.6
57°	1054.9	985.8	853.0	747.8	596.6	456.8	360.8	285.6	220.3	163.5	3.8
58°	623.4	560.5	539.7	460.7	397.7	310.2	266.4	212.7	162.8	129.0	2.3
59°	286.4	291.0	258.7	242.6	220.3	197.3	162.0	142.0	111.3	92.9	1.5
60°	166.6	157.4	153.6	137.4	122.1	108.3	97.5	86.0	69.9	59.9	0.8
62.5°	56.8	54.5	56.0	50.7	47.6	46.1	42.2	36.1	29.9	24.6	0.0
65°	15.4	15.4	14.6	13.8	13.1	12.3	11.5	10.0	9.2	7.7	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°	5.4	5.4	4.6	4.6	3.8	3.8	3.1	3.1	2.3	2.3	0.0
70°	3.1	3.1	3.1	2.3	2.3	2.3	1.5	1.5	1.5	0.8	0.0
72.5°	2.3	2.3	2.3	2.3	2.3	2.3	1.5	1.5	1.5	0.8	0.8
75°	2.3	2.3	2.3	1.5	1.5	1.5	1.5	1.5	1.5	1.5	0.8
77.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
80°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	0.8	1.5
82.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.5
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°	68.3	68.3	68.3	68.3	68.3	68.3
2.5°	70.6	67.6	63.7	61.4	60.7	59.9
5°	67.6	61.4	56.8	53.7	53.0	53.0
7.5°	60.7	53.7	49.1	47.6	46.8	46.8
10°	53.0	46.8	43.0	41.5	42.2	42.2
12.5°	44.5	39.2	37.6	37.6	38.4	39.2
15°	36.1	33.0	33.0	33.8	35.3	36.1
17.5°	29.9	28.4	29.2	30.7	32.2	33.8
20°	24.6	24.6	26.1	28.4	30.7	32.2
22.5°	20.7	21.5	23.8	26.1	29.2	30.7
25°	17.7	19.2	21.5	25.3	28.4	29.2
27.5°	15.4	17.7	20.7	24.6	27.6	29.2
30°	13.1	16.1	20.0	23.8	27.6	29.2
31°	12.3	15.4	19.2	23.8	27.6	29.2
32°	11.5	15.4	19.2	23.8	27.6	29.2
33°	10.7	14.6	19.2	23.0	27.6	29.2
34°	10.0	14.6	19.2	23.8	27.6	29.2
35°	9.2	13.8	18.4	23.0	26.9	29.2
36°	8.4	13.8	18.4	23.0	27.6	29.2
37°	7.7	13.8	18.4	23.0	26.9	29.2
38°	7.7	13.1	17.7	23.0	26.9	29.2
39°	6.9	12.3	17.7	23.0	26.9	29.2
40°	6.1	12.3	16.9	22.3	26.9	29.2
41°	5.4	11.5	16.9	22.3	26.9	29.2
42°	4.6	11.5	16.9	22.3	26.9	29.2
43°	3.8	10.7	16.1	22.3	26.9	29.2
44°	3.8	10.7	16.1	22.3	26.9	29.2
45°	3.1	10.0	15.4	22.3	26.9	29.2
46°	3.1	10.0	15.4	21.5	26.9	29.2
47°	2.3	10.0	15.4	21.5	26.9	29.2
48°	2.3	9.2	15.4	21.5	26.9	29.2
49°	1.5	9.2	15.4	21.5	26.9	29.2
50°	1.5	9.2	14.6	21.5	26.9	29.2
51°	1.5	9.2	14.6	21.5	26.9	29.2
52°	1.5	8.4	14.6	21.5	26.9	29.2
53°	1.5	8.4	14.6	21.5	26.9	29.2
54°	1.5	8.4	13.8	21.5	26.9	29.2
55°	1.5	7.7	13.8	20.7	26.9	28.4
56°	1.5	7.7	13.8	20.7	26.9	28.4
57°	1.5	7.7	13.1	20.7	26.9	28.4
58°	1.5	6.9	13.1	20.0	26.1	28.4
59°	1.5	6.9	12.3	20.0	26.1	27.6
60°	1.5	6.1	12.3	19.2	25.3	27.6
62.5°	1.5	5.4	10.7	18.4	24.6	26.1
65°	1.5	4.6	10.0	16.9	23.8	25.3



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	1.5	4.6	9.2	16.1	22.3	24.6
70°	1.5	4.6	8.4	14.6	21.5	22.3
72.5°	2.3	4.6	7.7	13.8	20.0	20.7
75°	3.1	4.6	6.9	12.3	18.4	19.2
77.5°	3.1	4.6	6.1	10.7	16.1	16.9
80°	3.1	3.8	5.4	8.4	13.1	13.8
82.5°	3.1	3.8	3.8	6.9	10.0	10.7
85°	2.3	3.1	3.1	3.8	6.9	7.7
87.5°	2.3	3.1	1.5	2.3	3.1	3.1
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)