

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: P1336598

Luminaire Tested: P3A05R15B2750DE010 E3CA451MMS_3000K

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1336598
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: P3A05R15B2750DE010 E3CA451MMS_3000K
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R15 optic, 3000K CCT AND, 90CRI , E3CA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

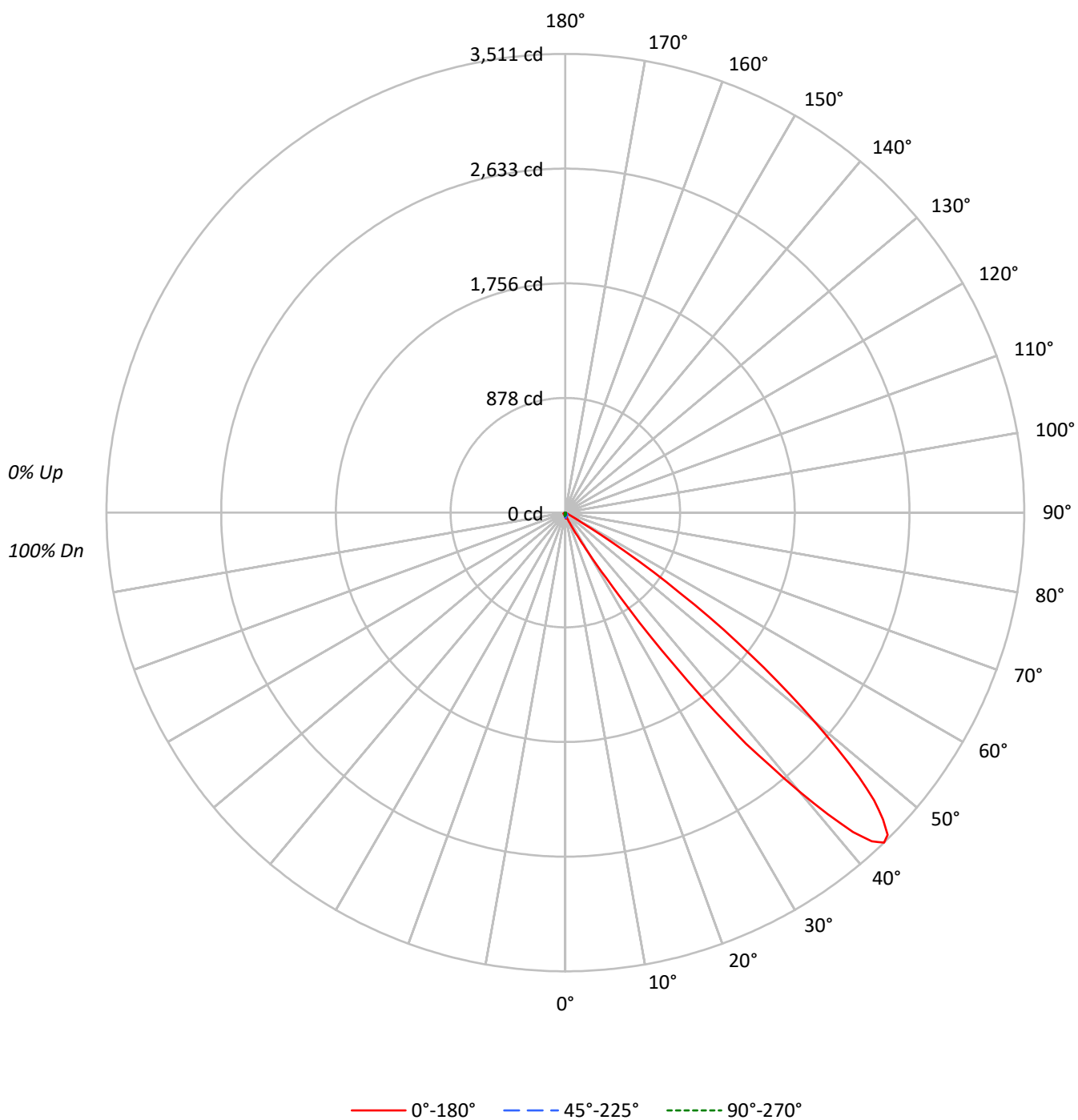
Lumens per Lamp: N/A
Luminaire Lumens: 392.0 lumens
Efficiency: N/A
Efficacy: 66.4 lumens/watt
Spacing Criteria (0/90/45): 3.26 / 0.47 / 1.08
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 5.9
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	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°	7631	7631	7631	7631	7631
5°	9465	8431	6890	6031	5943
10°	9307	7214	5299	4698	4787
15°	7719	5153	3814	3905	4177
20°	13418	4107	2917	3384	3827
25°	29881	4912	2371	3121	3605
30°	89356	6026	2076	3064	3773
35°	344038	6799	1874	3132	3989
40°	798525	5925	1803	3235	4265
45°	1081570	4497	1582	3504	4621
50°	848040	2661	1603	3718	5083
55°	407039	1185	1491	4052	5543
60°	37190	175	1360	4298	6184
65°	4047	0	1193	4462	6693
70°	1026	0	1475	4744	7245
75°	1017	339	1949	5338	8303
80°	1010	1010	2526	5430	8840
85°	1006	1006	4026	5032	9812

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1081570 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.0	0.8
10°-20°	6.2	1.6
20°-30°	14.8	3.8
30°-40°	81.1	20.7
40°-50°	196.3	50.1
50°-60°	78.3	20.0
60°-70°	6.8	1.7
70°-80°	3.8	1.0
80°-90°	1.7	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°	24.0	6.1
0°-40°	105.1	26.8
0°-60°	379.7	96.9
0°-90°	392.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	392.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	35	35	35	35	35	
5°	43	38	31	27	27	4
15°	34	23	17	17	18	12
25°	124	20	10	13	15	74
35°	1285	25	7	12	15	908
45°	3488	14	5	11	15	2460
55°	1065	3	4	11	14	992
65°	8	0	2	9	13	20
75°	1	0	2	6	10	1
85°	0	0	2	2	4	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°	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8
2.5°	39.1	39.1	39.5	39.1	39.1	39.1	39.1	38.7	38.7	38.7	37.5
5°	43.0	43.0	43.0	43.0	42.6	42.6	42.6	42.2	42.2	41.8	38.3
7.5°	44.6	44.6	44.2	44.2	43.8	43.8	43.4	43.0	42.6	42.2	36.7
10°	41.8	41.8	41.8	41.4	41.4	41.0	40.6	40.3	39.9	39.1	32.4
12.5°	37.1	37.1	37.5	37.1	36.7	36.4	35.6	35.2	34.8	34.0	27.0
15°	34.0	34.0	34.0	33.6	33.2	32.4	32.1	31.3	30.9	29.7	22.7
17.5°	43.4	43.4	43.0	42.2	40.6	39.5	37.5	36.0	34.0	31.7	19.5
20°	57.5	57.5	56.7	55.9	53.9	52.0	48.9	46.1	43.0	40.3	17.6
22.5°	83.3	84.4	82.1	79.3	76.6	71.9	67.6	63.3	57.8	53.2	18.0
25°	123.5	124.7	123.5	117.3	112.2	105.9	97.7	89.1	79.7	71.1	20.3
27.5°	200.1	200.9	198.9	183.7	175.5	159.1	144.6	130.5	114.9	99.3	22.3
30°	352.9	353.3	340.8	310.3	283.4	247.4	216.9	187.6	163.0	138.0	23.8
31°	464.7	453.8	427.2	390.5	347.5	299.0	257.2	219.3	182.5	155.6	24.2
32°	590.2	588.6	544.5	480.8	423.3	362.7	299.8	251.3	209.1	172.4	24.6
33°	756.3	757.1	687.5	612.5	518.3	437.0	354.5	288.1	237.3	192.3	25.4
34°	1015.8	954.9	873.2	771.6	643.4	521.0	413.9	330.7	262.7	211.5	25.4
35°	1285.2	1223.8	1133.9	979.9	804.0	632.8	484.7	376.4	293.1	232.2	25.4
36°	1586.9	1534.9	1398.9	1202.3	977.9	738.3	559.7	429.2	323.2	250.9	25.0
37°	1912.9	1836.7	1685.8	1471.2	1171.0	886.9	651.2	481.5	353.3	271.3	24.2
38°	2243.9	2175.1	1984.8	1724.9	1401.6	1043.6	742.6	532.0	381.1	286.5	23.1
39°	2494.9	2457.3	2268.6	1978.1	1585.7	1192.1	836.8	585.9	410.4	301.7	21.9
40°	2789.6	2729.0	2550.0	2190.8	1803.4	1343.4	929.1	633.6	434.6	313.9	20.7
41°	3058.5	2981.9	2756.0	2408.9	1977.8	1479.4	1016.6	682.8	454.2	320.9	19.9
42°	3289.1	3200.0	2963.9	2595.7	2123.5	1588.1	1086.6	718.0	472.6	326.8	18.8
43°	3438.4	3361.4	3129.2	2736.0	2248.2	1687.7	1151.9	754.8	483.9	330.7	17.2
44°	3511.1	3433.3	3208.6	2824.0	2324.8	1747.5	1194.1	780.2	496.4	335.7	16.0
45°	3487.7	3408.7	3191.4	2825.5	2348.7	1769.0	1212.1	791.5	503.0	340.4	14.5
46°	3380.2	3324.7	3105.8	2752.1	2303.3	1746.0	1201.9	782.9	500.7	340.4	12.9
47°	3229.3	3166.0	2957.6	2625.8	2193.5	1686.6	1160.9	756.7	486.2	332.6	11.3
48°	3023.7	2969.8	2750.9	2425.3	2025.1	1557.2	1068.2	714.1	463.6	317.4	9.8
49°	2765.7	2690.7	2487.0	2168.9	1805.4	1373.5	946.7	642.2	427.2	295.9	8.6
50°	2485.9	2393.2	2236.1	1912.1	1578.3	1177.7	786.8	542.9	376.0	267.7	7.8
51°	2211.9	2117.7	1968.0	1692.4	1336.0	977.2	634.8	433.5	309.6	229.0	6.6
52°	1927.7	1848.8	1681.1	1464.6	1143.7	791.9	528.8	366.6	257.2	192.3	5.5
53°	1644.7	1590.8	1431.3	1212.1	918.9	646.9	431.9	313.9	224.4	164.6	4.3
54°	1361.4	1302.3	1181.2	985.8	740.7	510.5	366.2	262.7	194.6	143.4	3.9
55°	1064.7	1034.2	922.4	751.6	561.3	407.3	297.1	225.9	163.0	120.0	3.1
56°	820.0	785.6	683.6	545.3	417.0	318.9	240.4	184.5	138.0	100.5	2.3
57°	537.0	501.9	434.2	380.7	303.7	232.6	183.7	145.4	112.2	83.3	2.0
58°	317.4	285.3	274.8	234.5	202.5	157.9	135.6	108.3	82.9	65.7	1.2
59°	145.8	148.1	131.7	123.5	112.2	100.5	82.5	72.3	56.7	47.3	0.8
60°	84.8	80.1	78.2	70.0	62.1	55.1	49.6	43.8	35.6	30.5	0.4
62.5°	28.9	27.8	28.5	25.8	24.2	23.5	21.5	18.4	15.2	12.5	0.0
65°	7.8	7.8	7.4	7.0	6.6	6.3	5.9	5.1	4.7	3.9	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°	2.7	2.7	2.3	2.3	2.0	2.0	1.6	1.6	1.2	1.2	0.0
70°	1.6	1.6	1.6	1.2	1.2	1.2	0.8	0.8	0.8	0.4	0.0
72.5°	1.2	1.2	1.2	1.2	1.2	1.2	0.8	0.8	0.8	0.4	0.4
75°	1.2	1.2	1.2	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.4
77.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
80°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.4	0.8
82.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8
85°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
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°	34.8	34.8	34.8	34.8	34.8	34.8
2.5°	36.0	34.4	32.4	31.3	30.9	30.5
5°	34.4	31.3	28.9	27.4	27.0	27.0
7.5°	30.9	27.4	25.0	24.2	23.8	23.8
10°	27.0	23.8	21.9	21.1	21.5	21.5
12.5°	22.7	19.9	19.2	19.2	19.5	19.9
15°	18.4	16.8	16.8	17.2	18.0	18.4
17.5°	15.2	14.5	14.9	15.6	16.4	17.2
20°	12.5	12.5	13.3	14.5	15.6	16.4
22.5°	10.6	10.9	12.1	13.3	14.9	15.6
25°	9.0	9.8	10.9	12.9	14.5	14.9
27.5°	7.8	9.0	10.6	12.5	14.1	14.9
30°	6.6	8.2	10.2	12.1	14.1	14.9
31°	6.3	7.8	9.8	12.1	14.1	14.9
32°	5.9	7.8	9.8	12.1	14.1	14.9
33°	5.5	7.4	9.8	11.7	14.1	14.9
34°	5.1	7.4	9.8	12.1	14.1	14.9
35°	4.7	7.0	9.4	11.7	13.7	14.9
36°	4.3	7.0	9.4	11.7	14.1	14.9
37°	3.9	7.0	9.4	11.7	13.7	14.9
38°	3.9	6.6	9.0	11.7	13.7	14.9
39°	3.5	6.3	9.0	11.7	13.7	14.9
40°	3.1	6.3	8.6	11.3	13.7	14.9
41°	2.7	5.9	8.6	11.3	13.7	14.9
42°	2.3	5.9	8.6	11.3	13.7	14.9
43°	2.0	5.5	8.2	11.3	13.7	14.9
44°	2.0	5.5	8.2	11.3	13.7	14.9
45°	1.6	5.1	7.8	11.3	13.7	14.9
46°	1.6	5.1	7.8	10.9	13.7	14.9
47°	1.2	5.1	7.8	10.9	13.7	14.9
48°	1.2	4.7	7.8	10.9	13.7	14.9
49°	0.8	4.7	7.8	10.9	13.7	14.9
50°	0.8	4.7	7.4	10.9	13.7	14.9
51°	0.8	4.7	7.4	10.9	13.7	14.9
52°	0.8	4.3	7.4	10.9	13.7	14.9
53°	0.8	4.3	7.4	10.9	13.7	14.9
54°	0.8	4.3	7.0	10.9	13.7	14.9
55°	0.8	3.9	7.0	10.6	13.7	14.5
56°	0.8	3.9	7.0	10.6	13.7	14.5
57°	0.8	3.9	6.6	10.6	13.7	14.5
58°	0.8	3.5	6.6	10.2	13.3	14.5
59°	0.8	3.5	6.3	10.2	13.3	14.1
60°	0.8	3.1	6.3	9.8	12.9	14.1
62.5°	0.8	2.7	5.5	9.4	12.5	13.3
65°	0.8	2.3	5.1	8.6	12.1	12.9



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	0.8	2.3	4.7	8.2	11.3	12.5
70°	0.8	2.3	4.3	7.4	10.9	11.3
72.5°	1.2	2.3	3.9	7.0	10.2	10.6
75°	1.6	2.3	3.5	6.3	9.4	9.8
77.5°	1.6	2.3	3.1	5.5	8.2	8.6
80°	1.6	2.0	2.7	4.3	6.6	7.0
82.5°	1.6	2.0	2.0	3.5	5.1	5.5
85°	1.2	1.6	1.6	2.0	3.5	3.9
87.5°	1.2	1.6	0.8	1.2	1.6	1.6
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)