

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: P1336582

Luminaire Tested: P3A05R15B2750DE010 E3A451WMH_2700K

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1336582
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 E3A451WMH_2700K
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R15 optic, 2700K CCT AND, 90CRI , E3A451WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

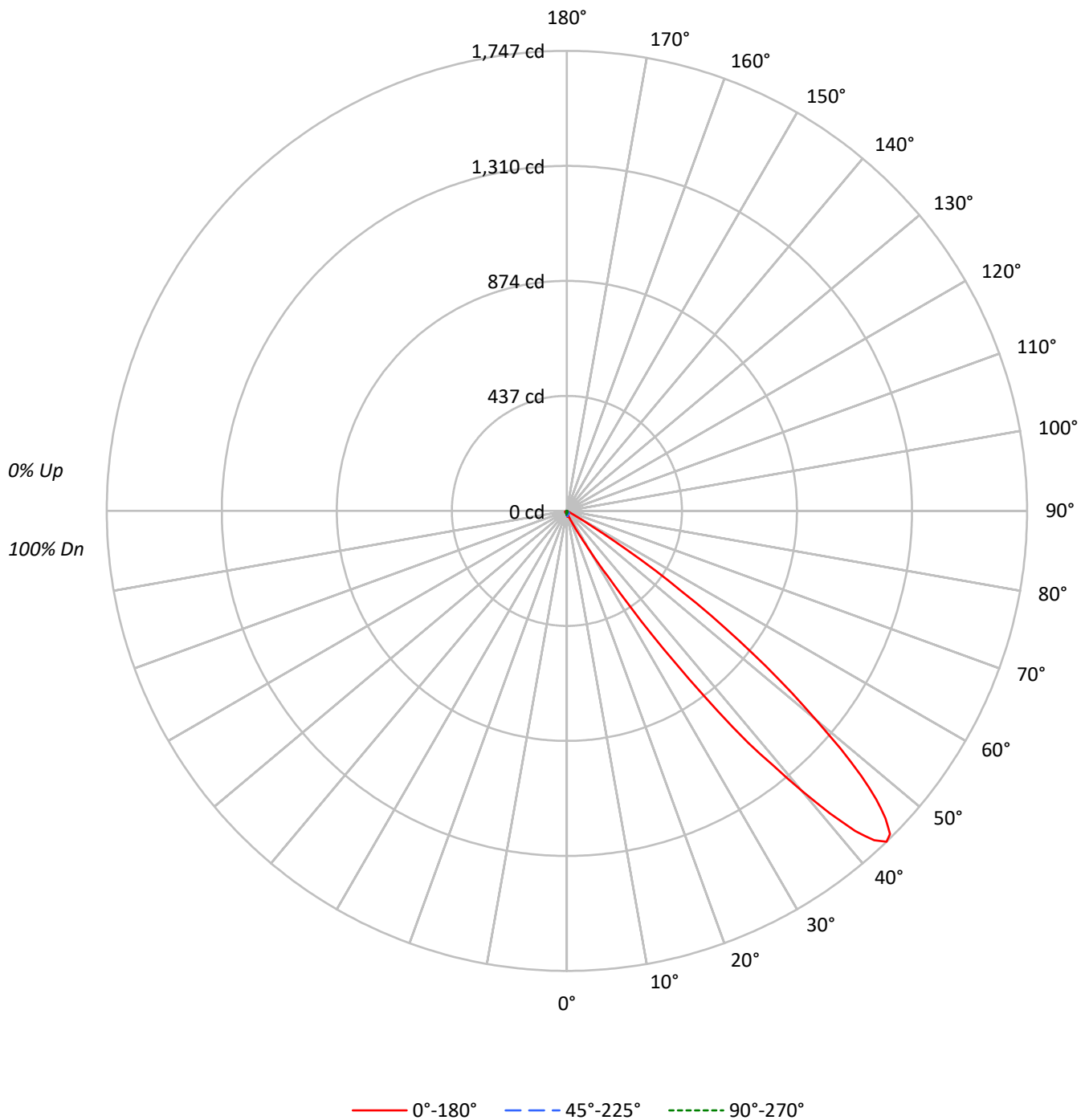
Lumens per Lamp: N/A
Luminaire Lumens: 195.0 lumens
Efficiency: N/A
Efficacy: 33.1 lumens/watt
Spacing Criteria (0/90/45): 3.26 / 0.47 / 1.09
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	54	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°	3794	3794	3794	3794	3794
5°	4711	4204	3434	2994	2950
10°	4631	3585	2650	2338	2382
15°	3837	2565	1907	1952	2066
20°	6674	2030	1447	1680	1913
25°	14856	2444	1186	1548	1790
30°	44463	3013	1038	1519	1874
35°	171136	3373	937	1553	1981
40°	397230	2948	887	1603	2118
45°	538009	2233	775	1737	2295
50°	421854	1330	785	1842	2524
55°	202468	612	726	1988	2753
60°	18507	88	702	2149	3070
65°	2024	0	623	2231	3321
70°	513	0	769	2372	3590
75°	508	169	1017	2626	4151
80°	505	505	1263	2652	4420
85°	503	503	2013	2516	4780

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 538009 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.5	0.8
10°-20°	3.1	1.6
20°-30°	7.4	3.8
30°-40°	40.3	20.7
40°-50°	97.7	50.1
50°-60°	39.0	20.0
60°-70°	3.4	1.7
70°-80°	1.9	1.0
80°-90°	0.8	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°	11.9	6.1
0°-40°	52.3	26.8
0°-60°	188.9	96.9
0°-90°	195.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	195.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	17	17	17	17	17	
5°	21	19	16	14	13	2
15°	17	11	8	9	9	6
25°	61	10	5	6	7	37
35°	639	13	4	6	7	452
45°	1735	7	2	6	7	1224
55°	530	2	2	5	7	493
65°	4	0	1	4	6	10
75°	1	0	1	3	5	1
85°	0	0	1	1	2	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°	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3
2.5°	19.4	19.4	19.6	19.4	19.4	19.4	19.4	19.2	19.2	19.2	18.7
5°	21.4	21.4	21.4	21.4	21.2	21.2	21.2	21.0	21.0	20.8	19.1
7.5°	22.2	22.2	22.0	22.0	21.8	21.8	21.6	21.4	21.2	21.0	18.3
10°	20.8	20.8	20.8	20.6	20.6	20.4	20.2	20.0	19.8	19.4	16.1
12.5°	18.5	18.5	18.7	18.5	18.3	18.1	17.7	17.5	17.3	16.9	13.4
15°	16.9	16.9	16.9	16.7	16.5	16.1	15.9	15.6	15.4	14.8	11.3
17.5°	21.6	21.6	21.4	21.0	20.2	19.6	18.7	17.9	16.9	15.7	9.7
20°	28.6	28.6	28.2	27.8	26.8	25.9	24.3	22.9	21.4	20.0	8.7
22.5°	41.4	42.0	40.8	39.5	38.1	35.8	33.6	31.5	28.8	26.4	8.9
25°	61.4	62.0	61.4	58.3	55.8	52.7	48.6	44.3	39.7	35.4	10.1
27.5°	99.5	99.9	99.0	91.4	87.3	79.1	71.9	64.9	57.2	49.4	11.1
30°	175.6	175.8	169.5	154.4	141.0	123.1	107.9	93.3	81.1	68.6	11.9
31°	231.2	225.7	212.5	194.2	172.9	148.7	127.9	109.1	90.8	77.4	12.1
32°	293.6	292.8	270.8	239.2	210.6	180.4	149.1	125.0	104.0	85.7	12.2
33°	376.2	376.6	342.0	304.7	257.8	217.4	176.4	143.3	118.0	95.7	12.6
34°	505.3	475.0	434.4	383.8	320.0	259.2	205.9	164.5	130.7	105.2	12.6
35°	639.3	608.8	564.1	487.4	399.9	314.8	241.1	187.2	145.8	115.5	12.6
36°	789.4	763.5	695.9	598.1	486.5	367.3	278.4	213.5	160.8	124.8	12.4
37°	951.6	913.6	838.6	731.8	582.5	441.2	323.9	239.5	175.8	134.9	12.1
38°	1116.2	1082.0	987.3	858.0	697.2	519.1	369.4	264.6	189.6	142.5	11.5
39°	1241.1	1222.4	1128.5	984.0	788.8	593.0	416.3	291.5	204.2	150.1	10.9
40°	1387.7	1357.5	1268.5	1089.8	897.1	668.3	462.2	315.2	216.2	156.1	10.3
41°	1521.4	1483.3	1370.9	1198.3	983.8	735.9	505.7	339.7	225.9	159.6	9.9
42°	1636.2	1591.8	1474.4	1291.2	1056.4	790.0	540.5	357.2	235.1	162.5	9.3
43°	1710.4	1672.1	1556.6	1361.0	1118.4	839.6	573.0	375.5	240.7	164.5	8.6
44°	1746.6	1707.9	1596.1	1404.8	1156.5	869.3	594.0	388.1	246.9	167.0	8.0
45°	1734.9	1695.7	1587.5	1405.6	1168.3	880.0	602.9	393.7	250.2	169.4	7.2
46°	1681.5	1653.9	1545.0	1369.0	1145.8	868.5	597.9	389.4	249.1	169.4	6.4
47°	1606.4	1574.9	1471.3	1306.2	1091.2	839.0	577.5	376.4	241.9	165.5	5.6
48°	1504.1	1477.3	1368.4	1206.5	1007.4	774.6	531.4	355.2	230.6	157.9	4.9
49°	1375.8	1338.5	1237.2	1078.9	898.1	683.2	470.9	319.5	212.5	147.2	4.3
50°	1236.6	1190.5	1112.4	951.2	785.1	585.8	391.4	270.1	187.0	133.2	3.9
51°	1100.3	1053.4	979.0	841.9	664.6	486.1	315.8	215.6	154.0	113.9	3.3
52°	958.9	919.7	836.3	728.5	568.9	393.9	263.1	182.4	127.9	95.7	2.7
53°	818.2	791.3	712.0	602.9	457.1	321.8	214.8	156.1	111.6	81.9	2.1
54°	677.2	647.9	587.6	490.4	368.5	253.9	182.2	130.7	96.8	71.4	1.9
55°	529.6	514.5	458.9	373.9	279.2	202.6	147.8	112.4	81.1	59.7	1.6
56°	407.9	390.8	340.1	271.2	207.5	158.7	119.6	91.8	68.6	50.0	1.2
57°	267.2	249.7	216.0	189.4	151.1	115.7	91.4	72.3	55.8	41.4	1.0
58°	157.9	141.9	136.7	116.7	100.7	78.6	67.5	53.9	41.2	32.7	0.6
59°	72.5	73.7	65.5	61.4	55.8	50.0	41.0	36.0	28.2	23.5	0.4
60°	42.2	39.9	38.9	34.8	30.9	27.4	24.7	21.8	17.7	15.2	0.2
62.5°	14.4	13.8	14.2	12.8	12.1	11.7	10.7	9.1	7.6	6.2	0.0
65°	3.9	3.9	3.7	3.5	3.3	3.1	2.9	2.5	2.3	1.9	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°	1.4	1.4	1.2	1.2	1.0	1.0	0.8	0.8	0.6	0.6	0.0
70°	0.8	0.8	0.8	0.6	0.6	0.6	0.4	0.4	0.4	0.2	0.0
72.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.4	0.4	0.4	0.2	0.2
75°	0.6	0.6	0.6	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.2
77.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
80°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.2	0.4
82.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4
85°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
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°	17.3	17.3	17.3	17.3	17.3	17.3
2.5°	17.9	17.1	16.1	15.6	15.4	15.2
5°	17.1	15.6	14.4	13.6	13.4	13.4
7.5°	15.4	13.6	12.4	12.1	11.9	11.9
10°	13.4	11.9	10.9	10.5	10.7	10.7
12.5°	11.3	9.9	9.5	9.5	9.7	9.9
15°	9.1	8.4	8.4	8.6	8.9	9.1
17.5°	7.6	7.2	7.4	7.8	8.2	8.6
20°	6.2	6.2	6.6	7.2	7.8	8.2
22.5°	5.2	5.4	6.0	6.6	7.4	7.8
25°	4.5	4.9	5.4	6.4	7.2	7.4
27.5°	3.9	4.5	5.2	6.2	7.0	7.4
30°	3.3	4.1	5.1	6.0	7.0	7.4
31°	3.1	3.9	4.9	6.0	7.0	7.4
32°	2.9	3.9	4.9	6.0	7.0	7.4
33°	2.7	3.7	4.9	5.8	7.0	7.4
34°	2.5	3.7	4.9	6.0	7.0	7.4
35°	2.3	3.5	4.7	5.8	6.8	7.4
36°	2.1	3.5	4.7	5.8	7.0	7.4
37°	1.9	3.5	4.7	5.8	6.8	7.4
38°	1.9	3.3	4.5	5.8	6.8	7.4
39°	1.7	3.1	4.5	5.8	6.8	7.4
40°	1.6	3.1	4.3	5.6	6.8	7.4
41°	1.4	2.9	4.3	5.6	6.8	7.4
42°	1.2	2.9	4.3	5.6	6.8	7.4
43°	1.0	2.7	4.1	5.6	6.8	7.4
44°	1.0	2.7	4.1	5.6	6.8	7.4
45°	0.8	2.5	3.9	5.6	6.8	7.4
46°	0.8	2.5	3.9	5.4	6.8	7.4
47°	0.6	2.5	3.9	5.4	6.8	7.4
48°	0.6	2.3	3.9	5.4	6.8	7.4
49°	0.4	2.3	3.9	5.4	6.8	7.4
50°	0.4	2.3	3.7	5.4	6.8	7.4
51°	0.4	2.3	3.7	5.4	6.8	7.4
52°	0.4	2.1	3.7	5.4	6.8	7.4
53°	0.4	2.1	3.7	5.4	6.8	7.4
54°	0.4	2.1	3.5	5.4	6.8	7.4
55°	0.4	1.9	3.5	5.2	6.8	7.2
56°	0.4	1.9	3.5	5.2	6.8	7.2
57°	0.4	1.9	3.3	5.2	6.8	7.2
58°	0.4	1.7	3.3	5.1	6.6	7.2
59°	0.4	1.7	3.1	5.1	6.6	7.0
60°	0.4	1.6	3.1	4.9	6.4	7.0
62.5°	0.4	1.4	2.7	4.7	6.2	6.6
65°	0.4	1.2	2.5	4.3	6.0	6.4



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	0.4	1.2	2.3	4.1	5.6	6.2
70°	0.4	1.2	2.1	3.7	5.4	5.6
72.5°	0.6	1.2	1.9	3.5	5.1	5.2
75°	0.8	1.2	1.7	3.1	4.7	4.9
77.5°	0.8	1.2	1.6	2.7	4.1	4.3
80°	0.8	1.0	1.4	2.1	3.3	3.5
82.5°	0.8	1.0	1.0	1.7	2.5	2.7
85°	0.6	0.8	0.8	1.0	1.7	1.9
87.5°	0.6	0.8	0.4	0.6	0.8	0.8
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)