

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: P1336586

Luminaire Tested: P3A05R15B2750DE010 E3A451WMH_5000K

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1336586
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_5000K
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R15 optic, 5000K CCT AND, 80CRI , E3A451WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

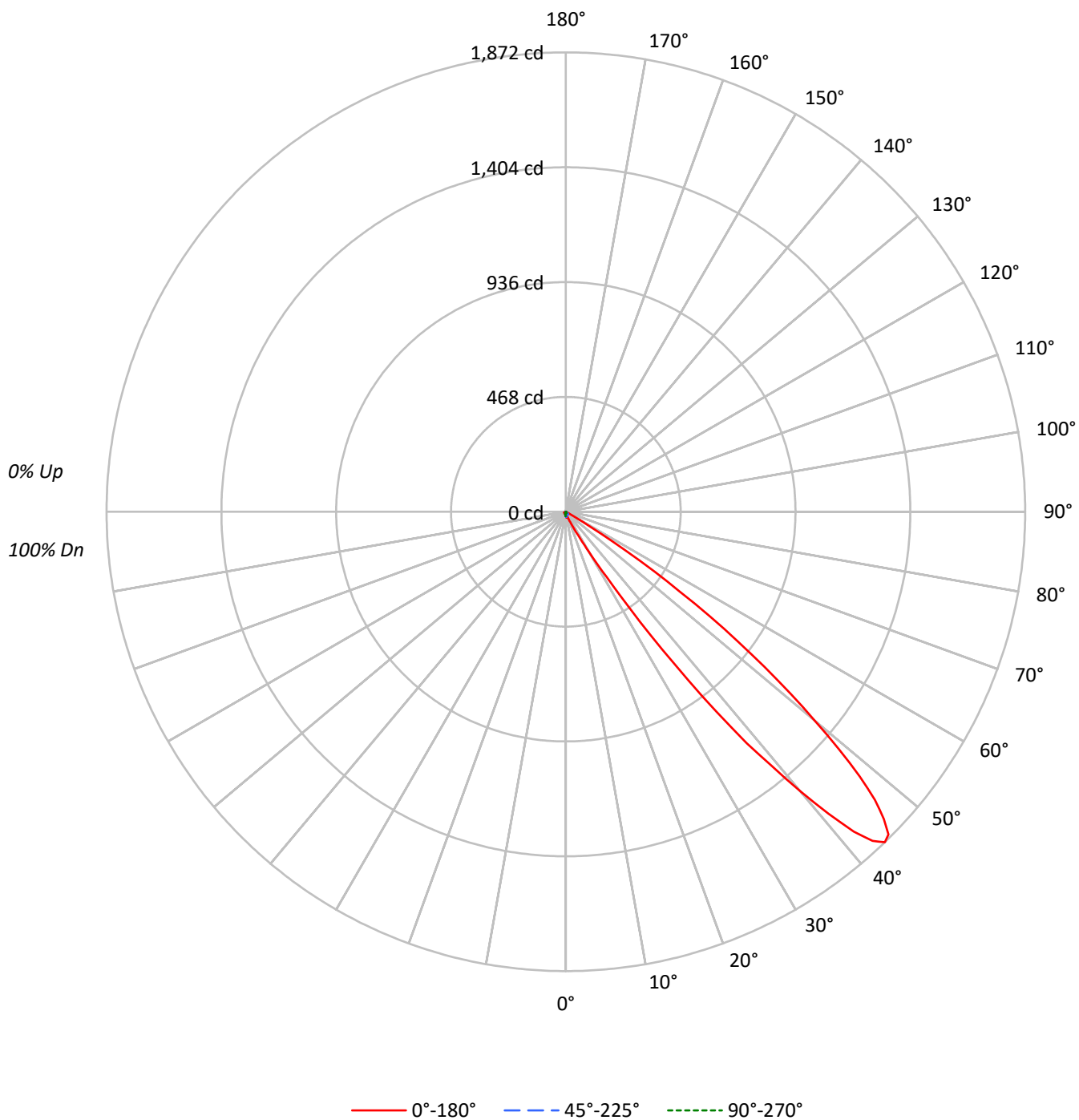
Lumens per Lamp: N/A
Luminaire Lumens: 209.0 lumens
Efficiency: N/A
Efficacy: 35.4 lumens/watt
Spacing Criteria (0/90/45): 3.26 / 0.48 / 1.09
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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			
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°	4057	4057	4057	4057	4057
5°	5041	4490	3676	3214	3170
10°	4965	3852	2828	2516	2561
15°	4109	2747	2043	2089	2225
20°	7141	2194	1563	1797	2054
25°	15944	2613	1258	1669	1911
30°	47653	3216	1114	1646	2000
35°	183423	3614	1017	1686	2115
40°	425741	3149	945	1718	2261
45°	576649	2388	837	1861	2450
50°	452147	1433	853	1979	2695
55°	217034	650	803	2141	2944
60°	19823	88	746	2281	3289
65°	2179	0	675	2387	3580
70°	513	0	833	2565	3847
75°	508	169	1101	2796	4406
80°	505	505	1263	2904	4799
85°	503	503	2013	2516	5284

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 576649 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.6	0.8
10°-20°	3.3	1.6
20°-30°	7.9	3.8
30°-40°	43.2	20.7
40°-50°	104.7	50.1
50°-60°	41.8	20.0
60°-70°	3.6	1.7
70°-80°	2.0	1.0
80°-90°	0.9	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°	12.8	6.1
0°-40°	56.0	26.8
0°-60°	202.5	96.9
0°-90°	209.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	209.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	18	18	18	18	18	
5°	23	20	17	15	14	2
15°	18	12	9	9	10	6
25°	66	11	5	7	8	40
35°	685	14	4	6	8	484
45°	1860	8	3	6	8	1312
55°	568	2	2	6	8	529
65°	4	0	1	5	7	11
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°	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5
2.5°	20.8	20.8	21.0	20.8	20.8	20.8	20.8	20.6	20.6	20.6	20.0
5°	22.9	22.9	22.9	22.9	22.7	22.7	22.7	22.5	22.5	22.3	20.4
7.5°	23.8	23.8	23.5	23.5	23.3	23.3	23.1	22.9	22.7	22.5	19.6
10°	22.3	22.3	22.3	22.1	22.1	21.9	21.7	21.5	21.3	20.8	17.3
12.5°	19.8	19.8	20.0	19.8	19.6	19.4	19.0	18.8	18.5	18.1	14.4
15°	18.1	18.1	18.1	17.9	17.7	17.3	17.1	16.7	16.5	15.8	12.1
17.5°	23.1	23.1	22.9	22.5	21.7	21.0	20.0	19.2	18.1	16.9	10.4
20°	30.6	30.6	30.2	29.8	28.8	27.7	26.0	24.6	22.9	21.5	9.4
22.5°	44.4	45.0	43.8	42.3	40.8	38.3	36.1	33.8	30.8	28.3	9.6
25°	65.9	66.5	65.9	62.5	59.8	56.5	52.1	47.5	42.5	37.9	10.8
27.5°	106.7	107.1	106.1	97.9	93.6	84.8	77.1	69.6	61.3	52.9	11.9
30°	188.2	188.4	181.7	165.5	151.1	131.9	115.7	100.0	86.9	73.6	12.7
31°	247.8	241.9	227.8	208.2	185.3	159.4	137.1	116.9	97.3	82.9	12.9
32°	314.7	313.8	290.3	256.3	225.7	193.4	159.8	134.0	111.5	91.9	13.1
33°	403.2	403.7	366.6	326.6	276.3	233.0	189.0	153.6	126.5	102.5	13.5
34°	541.6	509.1	465.5	411.4	343.0	277.8	220.7	176.3	140.0	112.7	13.5
35°	685.2	652.5	604.5	522.4	428.7	337.4	258.4	200.7	156.3	123.8	13.5
36°	846.1	818.4	745.8	641.0	521.4	393.7	298.4	228.8	172.3	133.8	13.3
37°	1019.9	979.2	898.8	784.4	624.3	472.8	347.2	256.7	188.4	144.6	12.9
38°	1196.4	1159.7	1058.2	919.6	747.3	556.4	395.9	283.6	203.2	152.8	12.3
39°	1330.2	1310.2	1209.5	1054.7	845.4	635.6	446.2	312.4	218.8	160.9	11.7
40°	1487.3	1455.0	1359.6	1168.0	961.5	716.2	495.3	337.8	231.7	167.3	11.0
41°	1630.7	1589.8	1469.4	1284.3	1054.5	788.8	542.0	364.1	242.2	171.1	10.6
42°	1753.6	1706.1	1580.2	1383.9	1132.2	846.7	579.3	382.8	251.9	174.2	10.0
43°	1833.2	1792.2	1668.4	1458.7	1198.7	899.8	614.1	402.4	258.0	176.3	9.2
44°	1872.0	1830.5	1710.7	1505.6	1239.5	931.7	636.6	416.0	264.7	179.0	8.5
45°	1859.5	1817.4	1701.5	1506.5	1252.2	943.2	646.2	422.0	268.2	181.5	7.7
46°	1802.2	1772.6	1655.9	1467.3	1228.1	930.9	640.8	417.4	267.0	181.5	6.9
47°	1721.7	1688.0	1576.9	1400.0	1169.5	899.2	618.9	403.4	259.2	177.3	6.0
48°	1612.1	1583.4	1466.7	1293.1	1079.7	830.2	569.5	380.7	247.2	169.2	5.2
49°	1474.6	1434.6	1326.0	1156.4	962.6	732.3	504.7	342.4	227.8	157.8	4.6
50°	1325.4	1276.0	1192.2	1019.5	841.5	627.9	419.5	289.5	200.5	142.7	4.2
51°	1179.3	1129.1	1049.3	902.3	712.3	521.0	338.4	231.1	165.0	122.1	3.5
52°	1027.8	985.7	896.3	780.8	609.8	422.2	282.0	195.5	137.1	102.5	2.9
53°	876.9	848.2	763.1	646.2	489.9	344.9	230.3	167.3	119.6	87.7	2.3
54°	725.8	694.4	629.8	525.6	394.9	272.2	195.3	140.0	103.8	76.5	2.1
55°	567.7	551.4	491.8	400.7	299.3	217.1	158.4	120.5	86.9	64.0	1.7
56°	437.2	418.9	364.5	290.7	222.4	170.0	128.2	98.4	73.6	53.6	1.3
57°	286.3	267.6	231.5	203.0	161.9	124.0	97.9	77.5	59.8	44.4	1.0
58°	169.2	152.1	146.5	125.0	107.9	84.2	72.3	57.7	44.2	35.0	0.6
59°	77.7	79.0	70.2	65.9	59.8	53.6	44.0	38.6	30.2	25.2	0.4
60°	45.2	42.7	41.7	37.3	33.1	29.4	26.5	23.3	19.0	16.3	0.2
62.5°	15.4	14.8	15.2	13.8	12.9	12.5	11.5	9.8	8.1	6.7	0.0
65°	4.2	4.2	4.0	3.8	3.5	3.3	3.1	2.7	2.5	2.1	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°	1.5	1.5	1.3	1.3	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°	18.5	18.5	18.5	18.5	18.5	18.5
2.5°	19.2	18.3	17.3	16.7	16.5	16.3
5°	18.3	16.7	15.4	14.6	14.4	14.4
7.5°	16.5	14.6	13.3	12.9	12.7	12.7
10°	14.4	12.7	11.7	11.3	11.5	11.5
12.5°	12.1	10.6	10.2	10.2	10.4	10.6
15°	9.8	9.0	9.0	9.2	9.6	9.8
17.5°	8.1	7.7	7.9	8.3	8.8	9.2
20°	6.7	6.7	7.1	7.7	8.3	8.8
22.5°	5.6	5.8	6.5	7.1	7.9	8.3
25°	4.8	5.2	5.8	6.9	7.7	7.9
27.5°	4.2	4.8	5.6	6.7	7.5	7.9
30°	3.5	4.4	5.4	6.5	7.5	7.9
31°	3.3	4.2	5.2	6.5	7.5	7.9
32°	3.1	4.2	5.2	6.5	7.5	7.9
33°	2.9	4.0	5.2	6.3	7.5	7.9
34°	2.7	4.0	5.2	6.5	7.5	7.9
35°	2.5	3.8	5.0	6.3	7.3	7.9
36°	2.3	3.8	5.0	6.3	7.5	7.9
37°	2.1	3.8	5.0	6.3	7.3	7.9
38°	2.1	3.5	4.8	6.3	7.3	7.9
39°	1.9	3.3	4.8	6.3	7.3	7.9
40°	1.7	3.3	4.6	6.0	7.3	7.9
41°	1.5	3.1	4.6	6.0	7.3	7.9
42°	1.3	3.1	4.6	6.0	7.3	7.9
43°	1.0	2.9	4.4	6.0	7.3	7.9
44°	1.0	2.9	4.4	6.0	7.3	7.9
45°	0.8	2.7	4.2	6.0	7.3	7.9
46°	0.8	2.7	4.2	5.8	7.3	7.9
47°	0.6	2.7	4.2	5.8	7.3	7.9
48°	0.6	2.5	4.2	5.8	7.3	7.9
49°	0.4	2.5	4.2	5.8	7.3	7.9
50°	0.4	2.5	4.0	5.8	7.3	7.9
51°	0.4	2.5	4.0	5.8	7.3	7.9
52°	0.4	2.3	4.0	5.8	7.3	7.9
53°	0.4	2.3	4.0	5.8	7.3	7.9
54°	0.4	2.3	3.8	5.8	7.3	7.9
55°	0.4	2.1	3.8	5.6	7.3	7.7
56°	0.4	2.1	3.8	5.6	7.3	7.7
57°	0.4	2.1	3.5	5.6	7.3	7.7
58°	0.4	1.9	3.5	5.4	7.1	7.7
59°	0.4	1.9	3.3	5.4	7.1	7.5
60°	0.4	1.7	3.3	5.2	6.9	7.5
62.5°	0.4	1.5	2.9	5.0	6.7	7.1
65°	0.4	1.3	2.7	4.6	6.5	6.9



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	0.4	1.3	2.5	4.4	6.0	6.7
70°	0.4	1.3	2.3	4.0	5.8	6.0
72.5°	0.6	1.3	2.1	3.8	5.4	5.6
75°	0.8	1.3	1.9	3.3	5.0	5.2
77.5°	0.8	1.3	1.7	2.9	4.4	4.6
80°	0.8	1.0	1.5	2.3	3.5	3.8
82.5°	0.8	1.0	1.0	1.9	2.7	2.9
85°	0.6	0.8	0.8	1.0	1.9	2.1
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)