

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: P1336585

Luminaire Tested: P3A05R15B2750DE010 E3A451WMH_4000K

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1336585
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_4000K
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R15 optic, 4000K CCT AND, 80CRI , E3A451WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

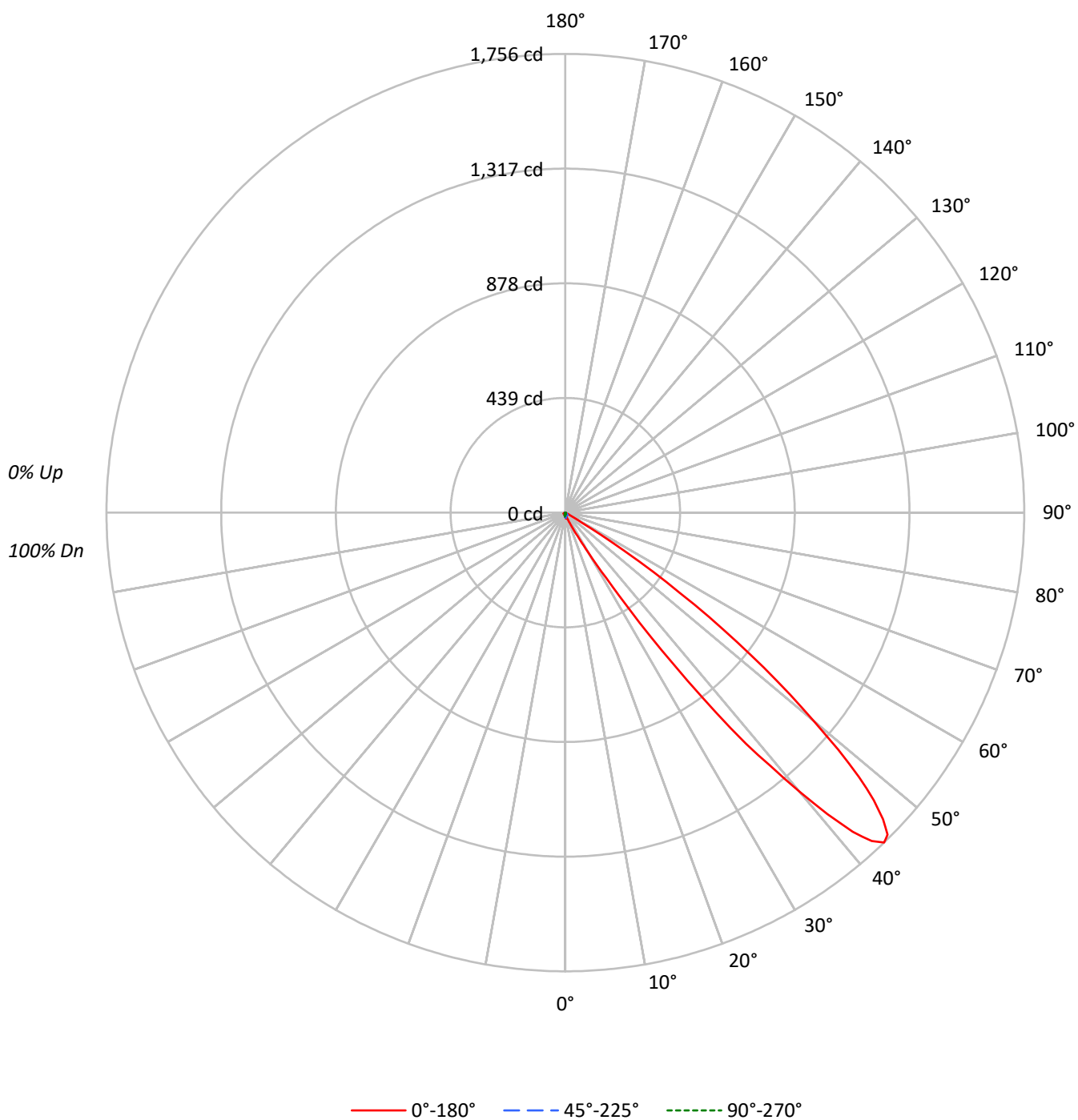
Lumens per Lamp: N/A
Luminaire Lumens: 196.0 lumens
Efficiency: N/A
Efficacy: 33.2 lumens/watt
Spacing Criteria (0/90/45): 3.26 / 0.48 / 1.08
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	99	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°	3815	3815	3815	3815	3815
5°	4733	4226	3434	3016	2972
10°	4654	3607	2650	2360	2382
15°	3859	2565	1907	1952	2089
20°	6697	2054	1470	1680	1913
25°	14952	2468	1186	1548	1790
30°	44690	3013	1038	1545	1874
35°	172019	3400	937	1579	1981
40°	399262	2977	887	1632	2118
45°	540769	2233	775	1768	2295
50°	424003	1330	785	1876	2524
55°	203539	612	765	2026	2753
60°	18595	88	702	2149	3070
65°	2024	0	623	2231	3321
70°	513	0	769	2372	3654
75°	508	169	1017	2626	4151
80°	505	505	1263	2652	4420
85°	503	503	2013	2516	5032

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 540769 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°	40.5	20.7
40°-50°	98.2	50.1
50°-60°	39.2	20.0
60°-70°	3.4	1.7
70°-80°	1.9	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°	12.0	6.1
0°-40°	52.5	26.8
0°-60°	189.8	96.9
0°-90°	196.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	196.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	17	17	17	17	17	
5°	22	19	16	14	14	2
15°	17	11	8	9	9	6
25°	62	10	5	6	7	37
35°	643	13	4	6	7	454
45°	1744	7	2	6	7	1230
55°	532	2	2	5	7	496
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°	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4
2.5°	19.5	19.5	19.7	19.5	19.5	19.5	19.5	19.3	19.3	19.3	18.8
5°	21.5	21.5	21.5	21.5	21.3	21.3	21.3	21.1	21.1	20.9	19.2
7.5°	22.3	22.3	22.1	22.1	21.9	21.9	21.7	21.5	21.3	21.1	18.4
10°	20.9	20.9	20.9	20.7	20.7	20.5	20.3	20.1	19.9	19.5	16.2
12.5°	18.6	18.6	18.8	18.6	18.4	18.2	17.8	17.6	17.4	17.0	13.5
15°	17.0	17.0	17.0	16.8	16.6	16.2	16.0	15.6	15.4	14.9	11.3
17.5°	21.7	21.7	21.5	21.1	20.3	19.7	18.8	18.0	17.0	15.8	9.8
20°	28.7	28.7	28.3	27.9	27.0	26.0	24.4	23.1	21.5	20.1	8.8
22.5°	41.6	42.2	41.0	39.7	38.3	36.0	33.8	31.7	28.9	26.6	9.0
25°	61.8	62.3	61.8	58.6	56.1	53.0	48.9	44.6	39.9	35.6	10.2
27.5°	100.1	100.5	99.5	91.9	87.7	79.5	72.3	65.3	57.5	49.6	11.1
30°	176.5	176.7	170.4	155.2	141.7	123.7	108.5	93.8	81.5	69.0	11.9
31°	232.4	226.9	213.6	195.2	173.7	149.5	128.6	109.6	91.3	77.8	12.1
32°	295.1	294.3	272.2	240.4	211.7	181.4	149.9	125.7	104.6	86.2	12.3
33°	378.2	378.5	343.8	306.2	259.1	218.5	177.3	144.0	118.6	96.2	12.7
34°	507.9	477.4	436.6	385.8	321.7	260.5	207.0	165.3	131.3	105.7	12.7
35°	642.6	611.9	566.9	489.9	402.0	316.4	242.3	188.2	146.6	116.1	12.7
36°	793.4	767.5	699.4	601.1	489.0	369.2	279.9	214.6	161.6	125.5	12.5
37°	956.4	918.3	842.9	735.6	585.5	443.4	325.6	240.8	176.7	135.6	12.1
38°	1122.0	1087.6	992.4	862.4	700.8	521.8	371.3	266.0	190.5	143.3	11.5
39°	1247.4	1228.7	1134.3	989.1	792.9	596.1	418.4	293.0	205.2	150.9	10.9
40°	1394.8	1364.5	1275.0	1095.4	901.7	671.7	464.5	316.8	217.3	156.9	10.4
41°	1529.2	1490.9	1378.0	1204.4	988.9	739.7	508.3	341.4	227.1	160.4	10.0
42°	1644.5	1600.0	1481.9	1297.9	1061.8	794.0	543.3	359.0	236.3	163.4	9.4
43°	1719.2	1680.7	1564.6	1368.0	1124.1	843.9	575.9	377.4	241.9	165.3	8.6
44°	1755.6	1716.7	1604.3	1412.0	1162.4	873.8	597.0	390.1	248.2	167.9	8.0
45°	1743.8	1704.3	1595.7	1412.8	1174.3	884.5	606.0	395.7	251.5	170.2	7.2
46°	1690.1	1662.3	1552.9	1376.0	1151.7	873.0	600.9	391.4	250.3	170.2	6.4
47°	1614.6	1583.0	1478.8	1312.9	1096.8	843.3	580.4	378.4	243.1	166.3	5.7
48°	1511.8	1484.9	1375.4	1212.6	1012.5	778.6	534.1	357.1	231.8	158.7	4.9
49°	1382.9	1345.3	1243.5	1084.4	902.7	686.7	473.3	321.1	213.6	147.9	4.3
50°	1242.9	1196.6	1118.1	956.0	789.1	588.8	393.4	271.5	188.0	133.9	3.9
51°	1105.9	1058.8	984.0	846.2	668.0	488.6	317.4	216.7	154.8	114.5	3.3
52°	963.9	924.4	840.5	732.3	571.8	395.9	264.4	183.3	128.6	96.2	2.7
53°	822.4	795.4	715.7	606.0	459.5	323.4	216.0	156.9	112.2	82.3	2.1
54°	680.7	651.2	590.6	492.9	370.3	255.2	183.1	131.3	97.3	71.7	2.0
55°	532.4	517.1	461.2	375.8	280.6	203.6	148.5	113.0	81.5	60.0	1.6
56°	410.0	392.8	341.8	272.6	208.5	159.5	120.2	92.2	69.0	50.2	1.2
57°	268.5	250.9	217.1	190.3	151.8	116.3	91.9	72.7	56.1	41.6	1.0
58°	158.7	142.7	137.4	117.3	101.2	79.0	67.8	54.1	41.4	32.8	0.6
59°	72.9	74.1	65.9	61.8	56.1	50.2	41.2	36.2	28.3	23.6	0.4
60°	42.4	40.1	39.1	35.0	31.1	27.6	24.8	21.9	17.8	15.2	0.2
62.5°	14.5	13.9	14.3	12.9	12.1	11.7	10.7	9.2	7.6	6.3	0.0
65°	3.9	3.9	3.7	3.5	3.3	3.1	2.9	2.5	2.3	2.0	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°	17.4	17.4	17.4	17.4	17.4	17.4
2.5°	18.0	17.2	16.2	15.6	15.4	15.2
5°	17.2	15.6	14.5	13.7	13.5	13.5
7.5°	15.4	13.7	12.5	12.1	11.9	11.9
10°	13.5	11.9	10.9	10.6	10.7	10.7
12.5°	11.3	10.0	9.6	9.6	9.8	10.0
15°	9.2	8.4	8.4	8.6	9.0	9.2
17.5°	7.6	7.2	7.4	7.8	8.2	8.6
20°	6.3	6.3	6.6	7.2	7.8	8.2
22.5°	5.3	5.5	6.1	6.6	7.4	7.8
25°	4.5	4.9	5.5	6.4	7.2	7.4
27.5°	3.9	4.5	5.3	6.3	7.0	7.4
30°	3.3	4.1	5.1	6.1	7.0	7.4
31°	3.1	3.9	4.9	6.1	7.0	7.4
32°	2.9	3.9	4.9	6.1	7.0	7.4
33°	2.7	3.7	4.9	5.9	7.0	7.4
34°	2.5	3.7	4.9	6.1	7.0	7.4
35°	2.3	3.5	4.7	5.9	6.8	7.4
36°	2.1	3.5	4.7	5.9	7.0	7.4
37°	2.0	3.5	4.7	5.9	6.8	7.4
38°	2.0	3.3	4.5	5.9	6.8	7.4
39°	1.8	3.1	4.5	5.9	6.8	7.4
40°	1.6	3.1	4.3	5.7	6.8	7.4
41°	1.4	2.9	4.3	5.7	6.8	7.4
42°	1.2	2.9	4.3	5.7	6.8	7.4
43°	1.0	2.7	4.1	5.7	6.8	7.4
44°	1.0	2.7	4.1	5.7	6.8	7.4
45°	0.8	2.5	3.9	5.7	6.8	7.4
46°	0.8	2.5	3.9	5.5	6.8	7.4
47°	0.6	2.5	3.9	5.5	6.8	7.4
48°	0.6	2.3	3.9	5.5	6.8	7.4
49°	0.4	2.3	3.9	5.5	6.8	7.4
50°	0.4	2.3	3.7	5.5	6.8	7.4
51°	0.4	2.3	3.7	5.5	6.8	7.4
52°	0.4	2.1	3.7	5.5	6.8	7.4
53°	0.4	2.1	3.7	5.5	6.8	7.4
54°	0.4	2.1	3.5	5.5	6.8	7.4
55°	0.4	2.0	3.5	5.3	6.8	7.2
56°	0.4	2.0	3.5	5.3	6.8	7.2
57°	0.4	2.0	3.3	5.3	6.8	7.2
58°	0.4	1.8	3.3	5.1	6.6	7.2
59°	0.4	1.8	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	6.3	6.6
65°	0.4	1.2	2.5	4.3	6.1	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	5.7	6.3
70°	0.4	1.2	2.1	3.7	5.5	5.7
72.5°	0.6	1.2	2.0	3.5	5.1	5.3
75°	0.8	1.2	1.8	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	1.8	2.5	2.7
85°	0.6	0.8	0.8	1.0	1.8	2.0
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)