

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: P1345698

Luminaire Tested: P3A13R35B2750DE010 E3A451WMH_5000K

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1345698
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-77)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A13R35B2750DE010 E3A451WMH_5000K
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R35 optic, 5000K CCT AND, 80CRI , E3A451WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

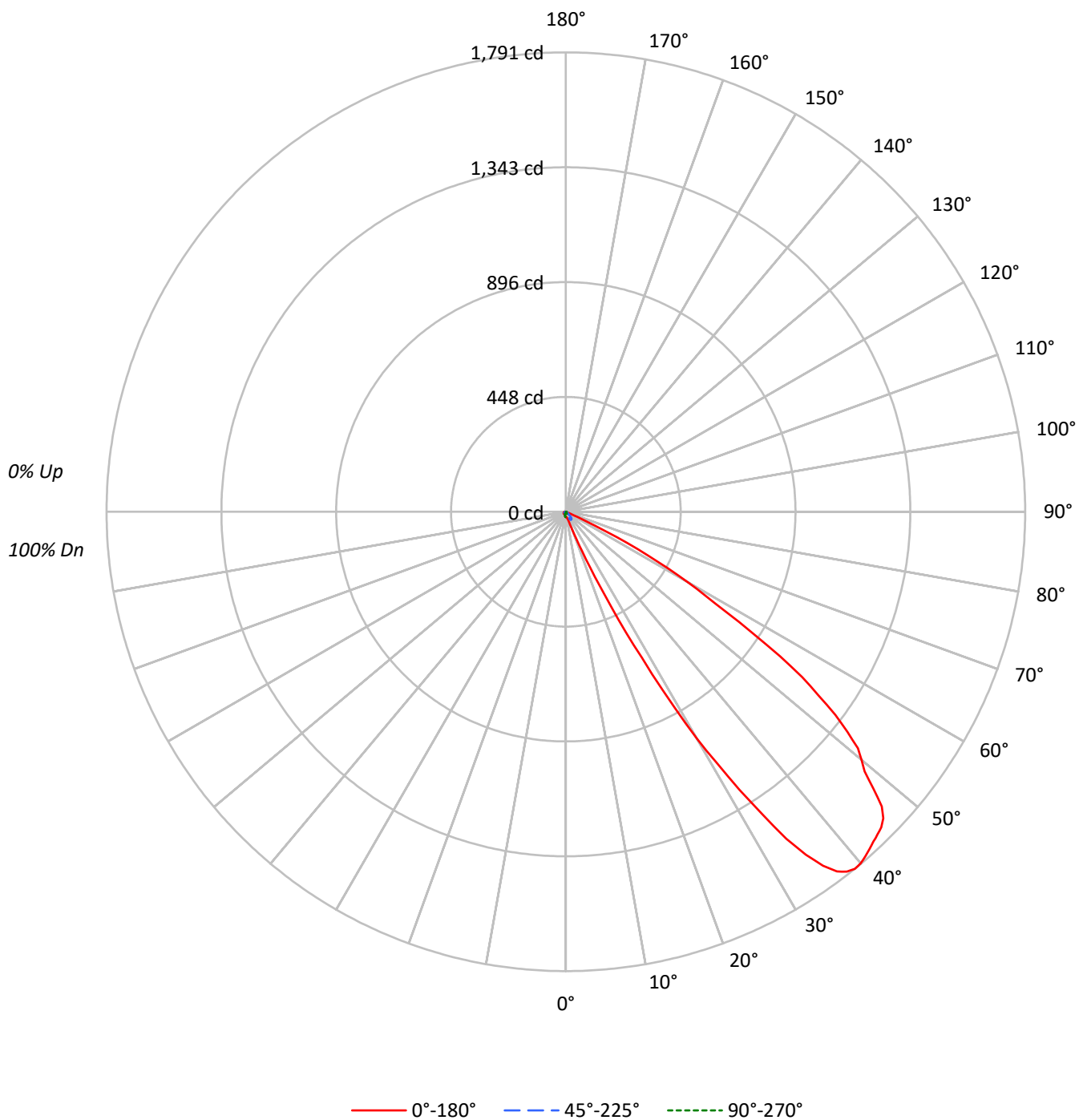
Lumens per Lamp: N/A
Luminaire Lumens: 446.0 lumens
Efficiency: N/A
Efficacy: 23.3 lumens/watt
Spacing Criteria (0/90/45): 4.01 / 0.66 / 1.41
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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					0		
RW	70	50	30	10		70	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	100	93	86	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	52		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	38		50	43	37		48	42	37		35
7	62	48	38	32		60	47	38	32		45	37	32		44	37	31		42	36	31		29
8	57	42	33	27		55	41	33	27		40	32	27		39	32	26		38	31	26		24
9	52	38	29	23		50	37	29	23		36	28	23		35	28	22		34	27	22		20
10	48	34	25	19		46	33	25	19		32	25	19		31	24	19		30	24	19		17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	4495	4495	4495	4495	4495
5°	4865	4777	4424	3984	3896
10°	5099	4654	3941	3407	3407
15°	7310	4563	3201	2929	3019
20°	18318	4877	2544	2544	2824
25°	85045	6242	1960	2347	2637
30°	258521	8457	1519	2152	2659
35°	436927	9798	1285	2034	2597
40°	512160	9675	1031	2061	2777
45°	539374	6853	868	2233	3008
50°	513416	4128	819	2320	3309
55°	430207	1682	918	2600	3861
60°	240858	351	1053	2982	4254
65°	41561	208	1038	3321	4825
70°	769	256	1282	3590	5450
75°	678	339	1694	4067	6100
80°	505	505	2020	4546	7072
85°	0	1006	4026	5032	8051

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 46°

Luminance: 543200 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.8	0.4
10°-20°	5.3	1.2
20°-30°	27.4	6.1
30°-40°	118.2	26.5
40°-50°	168.6	37.8
50°-60°	104.4	23.4
60°-70°	15.9	3.6
70°-80°	3.0	0.7
80°-90°	1.5	0.3
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°	34.5	7.7
0°-40°	152.7	34.2
0°-60°	425.6	95.4
0°-90°	446.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	446.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	20	20	20	20	20	
5°	22	22	20	18	18	2
15°	32	20	14	13	13	12
25°	352	26	8	10	11	210
35°	1632	37	5	8	10	980
45°	1739	22	3	7	10	1314
55°	1125	4	2	7	10	958
65°	80	0	2	6	9	164
75°	1	0	2	5	7	1
85°	0	0	2	2	3	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5
2.5°	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	20.5	20.1
5°	22.1	22.1	21.7	21.7	21.7	21.7	21.7	21.7	20.9	20.1	18.9
7.5°	22.5	22.5	22.1	22.1	22.1	22.1	21.7	21.3	20.5	18.9	17.7
10°	22.9	22.9	22.9	22.9	22.5	22.1	21.7	20.9	19.7	17.7	16.5
12.5°	25.8	25.8	25.4	24.6	23.8	22.9	22.1	20.5	18.1	16.1	14.9
15°	32.2	31.8	31.0	29.8	28.2	26.2	24.6	20.1	16.5	14.1	13.3
17.5°	45.1	44.3	43.1	39.1	35.4	31.8	28.6	20.1	14.9	12.5	11.7
20°	78.5	78.9	70.5	60.8	52.7	43.9	35.8	20.9	13.3	10.9	10.5
22.5°	163.9	157.4	137.3	113.9	87.0	67.2	50.7	22.9	11.7	9.3	9.3
25°	351.5	326.9	278.2	210.2	148.2	105.1	73.7	25.8	10.5	8.1	8.5
27.5°	641.8	619.6	521.8	392.9	260.9	158.6	99.8	29.4	9.3	6.8	7.6
30°	1021.0	959.8	832.2	644.2	436.0	242.8	134.1	33.4	7.6	6.0	7.2
31°	1139.4	1111.2	955.8	745.2	510.9	288.3	148.6	34.6	7.2	6.0	6.8
32°	1279.9	1230.0	1090.7	855.9	587.0	328.9	165.9	35.8	6.8	5.2	6.8
33°	1405.5	1357.2	1187.7	953.4	663.9	375.2	184.4	36.2	6.0	5.2	6.4
34°	1537.6	1471.5	1303.7	1055.2	742.8	425.2	201.3	36.6	5.6	4.8	6.4
35°	1632.2	1566.2	1403.5	1135.8	810.9	469.4	220.6	36.6	5.2	4.8	6.0
36°	1705.5	1647.5	1489.7	1218.7	878.5	509.3	235.9	36.6	4.4	4.4	6.0
37°	1755.8	1700.6	1547.6	1290.0	930.0	544.7	249.6	36.6	4.0	4.4	6.0
38°	1780.3	1734.4	1603.6	1341.9	980.0	572.5	260.5	35.8	3.6	4.0	5.6
39°	1790.8	1753.4	1637.8	1385.8	1017.4	596.7	268.5	35.0	3.2	4.0	5.6
40°	1789.2	1756.6	1657.1	1416.0	1047.6	613.2	273.0	33.8	2.8	3.6	5.6
41°	1779.9	1751.8	1667.2	1441.7	1065.7	624.4	274.2	32.6	2.4	3.6	5.2
42°	1769.5	1743.7	1670.4	1455.4	1077.4	628.1	271.0	31.0	2.4	3.2	5.2
43°	1758.6	1734.8	1670.4	1459.9	1080.2	625.7	265.7	28.2	2.0	3.2	5.2
44°	1749.7	1727.2	1665.2	1458.7	1074.2	616.4	256.1	25.0	1.6	3.2	5.2
45°	1739.3	1717.1	1658.4	1451.0	1062.5	600.7	244.0	22.1	1.2	2.8	5.2
46°	1720.8	1703.4	1646.3	1435.3	1044.0	579.0	228.7	20.1	0.8	2.8	4.8
47°	1684.9	1670.0	1622.9	1412.0	1019.4	553.2	213.0	18.1	0.8	2.8	4.8
48°	1612.9	1612.5	1576.2	1368.5	980.4	521.0	196.5	16.1	0.8	2.8	4.8
49°	1543.2	1536.0	1490.9	1292.0	924.4	482.3	179.2	14.5	0.4	2.8	4.8
50°	1505.0	1489.3	1415.2	1201.8	852.7	428.8	160.6	12.1	0.4	2.4	4.8
51°	1465.1	1442.6	1355.2	1120.5	767.4	377.2	140.5	9.7	0.4	2.4	4.4
52°	1393.0	1371.7	1273.9	1042.8	684.4	324.5	121.2	8.1	0.4	2.4	4.8
53°	1315.3	1284.7	1178.4	957.4	611.6	277.8	101.5	6.8	0.4	2.4	4.4
54°	1217.5	1203.8	1081.8	852.7	526.2	232.7	83.3	5.6	0.4	2.4	4.4
55°	1125.3	1105.2	978.3	745.6	448.9	190.8	69.7	4.4	0.4	2.4	4.4
56°	1007.7	977.5	858.8	647.4	370.4	153.8	58.8	3.6	0.4	2.4	4.4
57°	867.6	835.4	741.6	538.3	290.7	117.2	49.1	2.8	0.4	2.4	4.4
58°	734.0	706.2	605.5	415.5	219.0	81.3	40.7	2.0	0.4	2.0	4.4
59°	634.1	603.5	503.7	319.7	152.2	60.0	30.6	1.6	0.4	2.4	4.4
60°	549.2	509.7	405.4	247.6	108.7	43.1	22.5	0.8	0.8	2.4	4.4
62.5°	316.5	279.4	193.7	100.7	44.7	22.1	10.9	0.4	0.8	2.4	4.4
65°	80.1	71.3	46.3	21.7	12.5	7.6	4.0	0.4	0.8	2.0	4.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
67.5°	2.8	2.8	2.8	2.4	2.0	1.6	0.8	0.4	0.8	2.0	4.0
70°	1.2	1.2	1.2	0.8	0.8	0.4	0.4	0.4	0.8	2.0	3.6
72.5°	0.8	0.8	0.8	0.8	0.4	0.4	0.4	0.4	1.2	2.0	3.2
75°	0.8	0.8	0.8	0.8	0.4	0.4	0.4	0.4	1.2	2.0	3.2
77.5°	0.8	0.8	0.4	0.4	0.4	0.4	0.4	0.4	1.2	1.6	2.8
80°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.2	1.6	2.4
82.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.2	1.6	2.0
85°	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.4	1.2	1.6	1.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.2	1.6	1.2
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):

	135°	157.5°	180°
0°	20.5	20.5	20.5
2.5°	19.3	19.3	19.3
5°	18.1	18.1	17.7
7.5°	16.9	16.5	16.5
10°	15.3	15.3	15.3
12.5°	14.1	14.1	14.1
15°	12.9	13.3	13.3
17.5°	11.7	12.5	12.5
20°	10.9	11.7	12.1
22.5°	10.1	10.9	11.3
25°	9.7	10.5	10.9
27.5°	8.9	10.1	10.9
30°	8.5	9.7	10.5
31°	8.5	9.7	10.1
32°	8.1	9.7	10.1
33°	8.1	9.7	10.1
34°	8.1	9.3	10.1
35°	7.6	9.3	9.7
36°	7.6	9.3	9.7
37°	7.6	9.3	10.1
38°	7.6	9.3	9.7
39°	7.2	9.3	9.7
40°	7.2	9.3	9.7
41°	7.2	9.3	9.7
42°	7.2	9.3	9.7
43°	7.2	9.3	9.7
44°	7.2	8.9	9.7
45°	7.2	8.9	9.7
46°	7.2	9.3	9.7
47°	7.2	9.3	10.1
48°	7.2	8.9	9.7
49°	6.8	8.9	9.7
50°	6.8	8.9	9.7
51°	6.8	9.3	10.1
52°	6.8	9.3	10.1
53°	6.8	9.3	10.1
54°	6.8	9.3	9.7
55°	6.8	9.3	10.1
56°	6.8	9.3	9.7
57°	6.8	9.3	9.7
58°	6.8	8.9	9.7
59°	6.8	8.9	9.7
60°	6.8	8.9	9.7
62.5°	6.4	8.9	9.7
65°	6.4	8.5	9.3



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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
67.5°	6.0	8.5	8.9
70°	5.6	8.1	8.5
72.5°	5.2	7.6	8.1
75°	4.8	6.8	7.2
77.5°	4.0	6.0	6.8
80°	3.6	5.2	5.6
82.5°	2.8	4.4	4.8
85°	2.0	3.2	3.2
87.5°	0.8	1.6	1.6
90°	0.0	0.0	0.0

(END OF REPORT)