

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: P1345694

Luminaire Tested: P3A13R35B2750DE010 E3A451WMH_2700K

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1345694
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_2700K
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R35 optic, 2700K CCT AND, 90CRI , E3A451WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

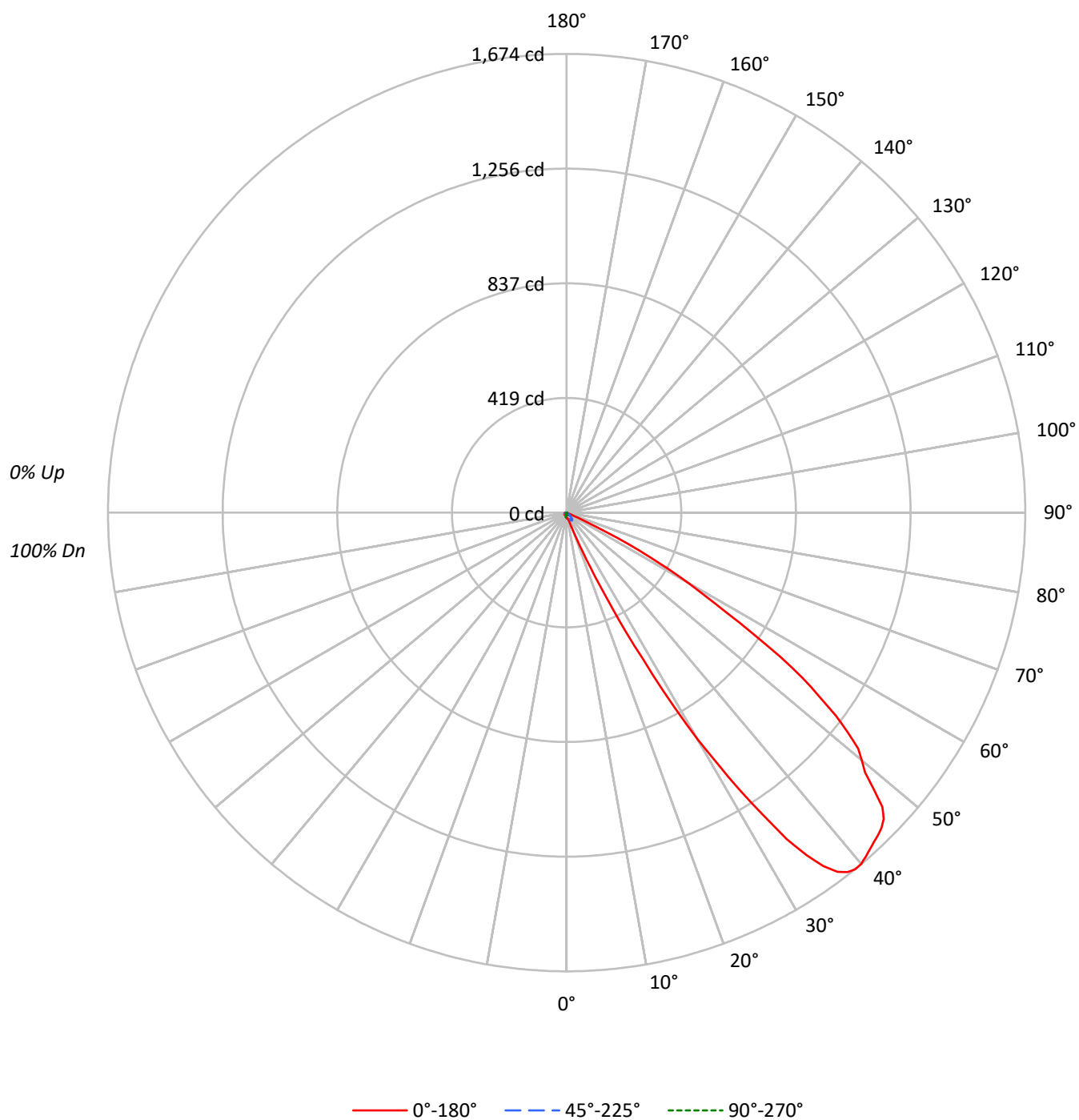
Lumens per Lamp: N/A
Luminaire Lumens: 417.0 lumens
Efficiency: N/A
Efficacy: 21.8 lumens/watt
Spacing Criteria (0/90/45): 4.01 / 0.66 / 1.41
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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				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	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°	4210	4210	4210	4210	4210
5°	4556	4468	4138	3720	3654
10°	4787	4364	3696	3184	3184
15°	6833	4268	2997	2724	2815
20°	17128	4574	2380	2380	2637
25°	79505	5831	1815	2178	2468
30°	241708	7900	1418	2000	2481
35°	408525	9182	1205	1927	2409
40°	478869	9046	973	1947	2576
45°	504300	6419	806	2109	2791
50°	480018	3855	785	2183	3070
55°	402222	1567	879	2447	3594
60°	225201	351	1009	2807	3947
65°	38863	208	986	3113	4514
70°	705	256	1218	3398	5065
75°	678	339	1610	3813	5761
80°	505	505	1894	4293	6693
85°	0	1006	3774	4780	7548

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 46°

Luminance: 507877 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.7	0.4
10°-20°	4.9	1.2
20°-30°	25.6	6.1
30°-40°	110.5	26.5
40°-50°	157.6	37.8
50°-60°	97.6	23.4
60°-70°	14.9	3.6
70°-80°	2.8	0.7
80°-90°	1.4	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°	32.2	7.7
0°-40°	142.7	34.2
0°-60°	398.0	95.4
0°-90°	417.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	417.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	19	19	19	19	19	
5°	21	20	19	17	17	2
15°	30	19	13	12	12	11
25°	329	24	8	9	10	197
35°	1526	34	4	7	9	916
45°	1626	21	3	7	9	1229
55°	1052	4	2	6	9	896
65°	75	0	2	6	9	153
75°	1	0	2	4	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°	19.2	19.2	19.2	19.2	19.2	19.2	19.2	19.2	19.2	19.2	19.2
2.5°	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	19.2	18.8
5°	20.7	20.7	20.3	20.3	20.3	20.3	20.3	20.3	19.6	18.8	17.7
7.5°	21.1	21.1	20.7	20.7	20.7	20.7	20.3	20.0	19.2	17.7	16.6
10°	21.5	21.5	21.5	21.5	21.1	20.7	20.3	19.6	18.4	16.6	15.4
12.5°	24.1	24.1	23.7	23.0	22.2	21.5	20.7	19.2	16.9	15.1	13.9
15°	30.1	29.7	29.0	27.9	26.4	24.5	23.0	18.8	15.4	13.2	12.4
17.5°	42.2	41.4	40.3	36.5	33.1	29.7	26.7	18.8	13.9	11.7	10.9
20°	73.4	73.8	65.9	56.8	49.3	41.0	33.5	19.6	12.4	10.2	9.8
22.5°	153.2	147.2	128.4	106.5	81.3	62.9	47.4	21.5	10.9	8.7	8.7
25°	328.6	305.7	260.1	196.5	138.5	98.2	68.9	24.1	9.8	7.5	7.9
27.5°	600.0	579.3	487.9	367.4	243.9	148.3	93.4	27.5	8.7	6.4	7.2
30°	954.6	897.4	778.1	602.3	407.7	227.0	125.4	31.2	7.2	5.6	6.8
31°	1065.3	1039.0	893.6	696.8	477.7	269.5	138.9	32.4	6.8	5.6	6.4
32°	1196.7	1150.0	1019.8	800.3	548.8	307.5	155.1	33.5	6.4	4.9	6.4
33°	1314.1	1269.0	1110.5	891.4	620.7	350.8	172.4	33.9	5.6	4.9	6.0
34°	1437.6	1375.9	1218.9	986.6	694.5	397.5	188.2	34.3	5.3	4.5	6.0
35°	1526.1	1464.3	1312.2	1061.9	758.1	438.9	206.3	34.3	4.9	4.5	5.6
36°	1594.6	1540.4	1392.8	1139.5	821.4	476.2	220.6	34.3	4.1	4.1	5.6
37°	1641.6	1590.0	1447.0	1206.1	869.6	509.3	233.4	34.3	3.8	4.1	5.6
38°	1664.6	1621.7	1499.3	1254.6	916.2	535.3	243.6	33.5	3.4	3.8	5.3
39°	1674.4	1639.4	1531.3	1295.7	951.2	557.9	251.1	32.7	3.0	3.8	5.3
40°	1672.9	1642.4	1549.4	1323.9	979.5	573.3	255.2	31.6	2.6	3.4	5.3
41°	1664.2	1637.9	1558.8	1348.0	996.4	583.8	256.4	30.5	2.3	3.4	4.9
42°	1654.4	1630.3	1561.8	1360.8	1007.3	587.2	253.3	29.0	2.3	3.0	4.9
43°	1644.3	1622.0	1561.8	1364.9	1010.0	585.0	248.4	26.4	1.9	3.0	4.9
44°	1636.0	1614.9	1556.9	1363.8	1004.3	576.3	239.4	23.3	1.5	3.0	4.9
45°	1626.2	1605.5	1550.5	1356.7	993.4	561.6	228.1	20.7	1.1	2.6	4.9
46°	1608.9	1592.7	1539.2	1342.0	976.1	541.3	213.8	18.8	0.8	2.6	4.5
47°	1575.4	1561.4	1517.4	1320.1	953.1	517.2	199.1	16.9	0.8	2.6	4.5
48°	1508.0	1507.6	1473.7	1279.5	916.6	487.1	183.7	15.1	0.8	2.6	4.5
49°	1442.9	1436.1	1393.9	1208.0	864.3	451.0	167.5	13.6	0.4	2.6	4.5
50°	1407.1	1392.4	1323.2	1123.6	797.3	400.9	150.2	11.3	0.4	2.3	4.5
51°	1369.8	1348.8	1267.1	1047.6	717.5	352.7	131.4	9.0	0.4	2.3	4.1
52°	1302.5	1282.5	1191.0	975.0	639.9	303.4	113.3	7.5	0.4	2.3	4.5
53°	1229.8	1201.2	1101.8	895.2	571.8	259.7	94.9	6.4	0.4	2.3	4.1
54°	1138.3	1125.5	1011.5	797.3	492.0	217.6	77.9	5.3	0.4	2.3	4.1
55°	1052.1	1033.3	914.7	697.2	419.7	178.4	65.1	4.1	0.4	2.3	4.1
56°	942.2	914.0	802.9	605.3	346.3	143.8	55.0	3.4	0.4	2.3	4.1
57°	811.2	781.1	693.4	503.3	271.8	109.5	45.9	2.6	0.4	2.3	4.1
58°	686.2	660.3	566.2	388.5	204.8	76.0	38.0	1.9	0.4	1.9	4.1
59°	592.9	564.3	470.9	298.9	142.3	56.1	28.6	1.5	0.4	2.3	4.1
60°	513.5	476.6	379.1	231.5	101.6	40.3	21.1	0.8	0.8	2.3	4.1
62.5°	295.9	261.2	181.1	94.1	41.8	20.7	10.2	0.4	0.8	2.3	4.1
65°	74.9	66.6	43.3	20.3	11.7	7.2	3.8	0.4	0.8	1.9	3.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
67.5°	2.6	2.6	2.6	2.3	1.9	1.5	0.8	0.4	0.8	1.9	3.8
70°	1.1	1.1	1.1	0.8	0.8	0.4	0.4	0.4	0.8	1.9	3.4
72.5°	0.8	0.8	0.8	0.8	0.4	0.4	0.4	0.4	1.1	1.9	3.0
75°	0.8	0.8	0.8	0.8	0.4	0.4	0.4	0.4	1.1	1.9	3.0
77.5°	0.8	0.8	0.4	0.4	0.4	0.4	0.4	0.4	1.1	1.5	2.6
80°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.1	1.5	2.3
82.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.1	1.5	1.9
85°	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.4	1.1	1.5	1.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.1	1.5	1.1
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°	19.2	19.2	19.2
2.5°	18.1	18.1	18.1
5°	16.9	16.9	16.6
7.5°	15.8	15.4	15.4
10°	14.3	14.3	14.3
12.5°	13.2	13.2	13.2
15°	12.0	12.4	12.4
17.5°	10.9	11.7	11.7
20°	10.2	10.9	11.3
22.5°	9.4	10.2	10.5
25°	9.0	9.8	10.2
27.5°	8.3	9.4	10.2
30°	7.9	9.0	9.8
31°	7.9	9.0	9.4
32°	7.5	9.0	9.4
33°	7.5	9.0	9.4
34°	7.5	8.7	9.4
35°	7.2	8.7	9.0
36°	7.2	8.7	9.0
37°	7.2	8.7	9.4
38°	7.2	8.7	9.0
39°	6.8	8.7	9.0
40°	6.8	8.7	9.0
41°	6.8	8.7	9.0
42°	6.8	8.7	9.0
43°	6.8	8.7	9.0
44°	6.8	8.3	9.0
45°	6.8	8.3	9.0
46°	6.8	8.7	9.0
47°	6.8	8.7	9.4
48°	6.8	8.3	9.0
49°	6.4	8.3	9.0
50°	6.4	8.3	9.0
51°	6.4	8.7	9.4
52°	6.4	8.7	9.4
53°	6.4	8.7	9.4
54°	6.4	8.7	9.0
55°	6.4	8.7	9.4
56°	6.4	8.7	9.0
57°	6.4	8.7	9.0
58°	6.4	8.3	9.0
59°	6.4	8.3	9.0
60°	6.4	8.3	9.0
62.5°	6.0	8.3	9.0
65°	6.0	7.9	8.7



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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
67.5°	5.6	7.9	8.3
70°	5.3	7.5	7.9
72.5°	4.9	7.2	7.5
75°	4.5	6.4	6.8
77.5°	3.8	5.6	6.4
80°	3.4	4.9	5.3
82.5°	2.6	4.1	4.5
85°	1.9	3.0	3.0
87.5°	0.8	1.5	1.5
90°	0.0	0.0	0.0

(END OF REPORT)