

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: P1335923

Luminaire Tested: P3A02R40B2750DE010 E3A451WMH_4000K

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1335923
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-78)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A02R40B2750DE010 E3A451WMH_4000K
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R40 optic, 4000K CCT AND, 80CRI , E3A451WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

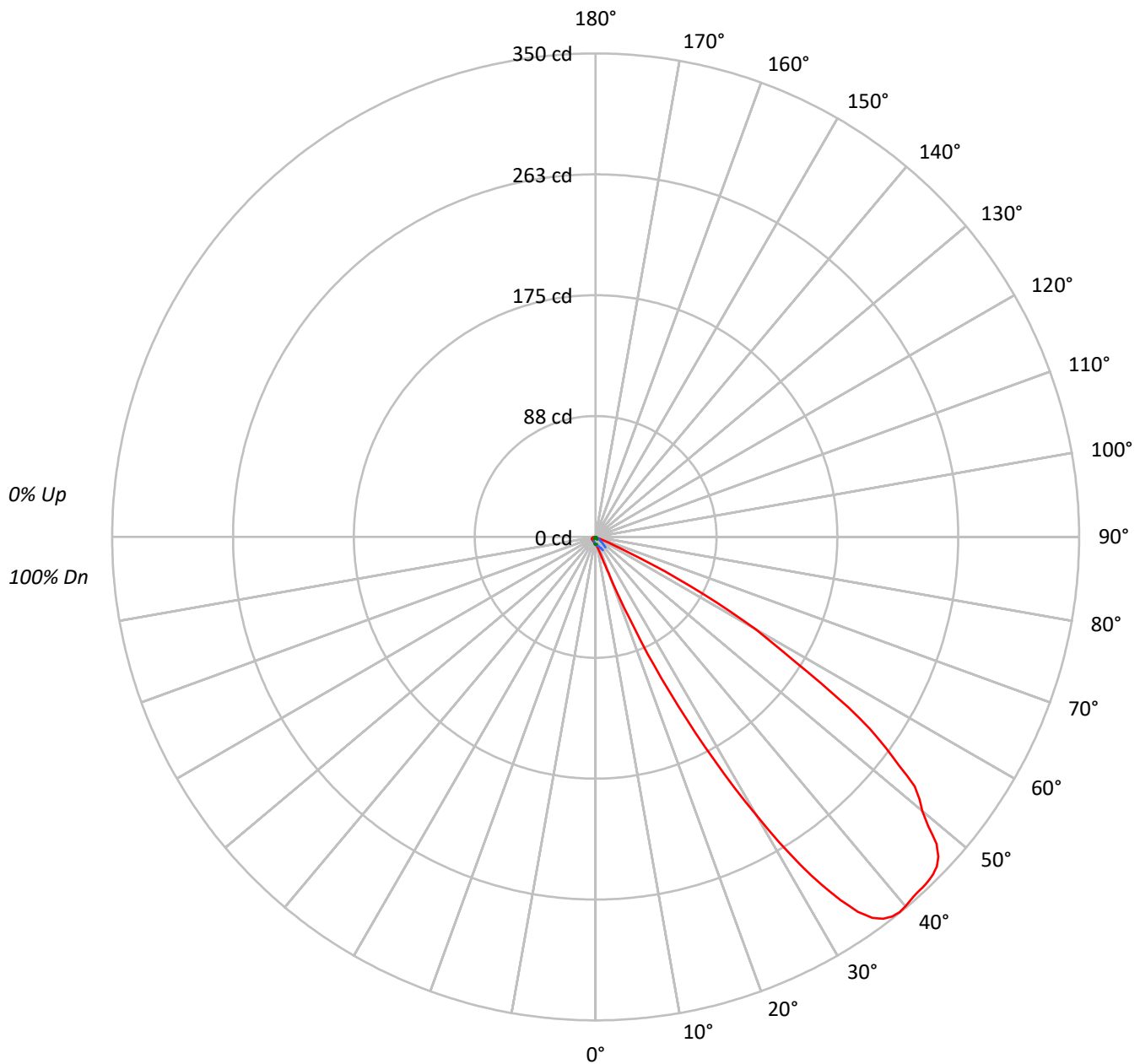
Lumens per Lamp: N/A
Luminaire Lumens: 108.1 lumens
Efficiency: N/A
Efficacy: 37.3 lumens/watt
Spacing Criteria (0/90/45): 3.98 / 0.73 / 1.54
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 2.9
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

TEST NUMBER: P1335923

CATALOG NUMBER: P3A02R40B2750DE010 E3A451WMH_4000K

Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° ···· 90°-270°

TEST NUMBER: P1335923

CATALOG NUMBER: P3A02R40B2750DE010 E3A451WMH_4000K

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	50	30
RCR																			
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100
1	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88	86	86
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72	72
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60	60
4	82	70	62	55	80	69	61	54	67	59	54	64	58	53	62	57	52	50	50
5	75	62	52	46	73	60	52	45	58	51	45	56	50	44	54	49	44	42	42
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	35	35
7	62	48	39	32	60	47	38	32	45	37	32	44	37	31	42	36	31	29	29
8	57	42	33	27	55	42	33	27	40	32	27	39	32	27	38	31	26	24	24
9	52	38	29	23	51	37	29	23	36	28	23	35	28	23	34	27	23	21	21
10	48	34	25	20	47	33	25	20	32	25	20	31	24	20	30	24	19	18	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	1228	1228	1228	1228	1228
5°	1343	1321	1211	1101	1079
10°	1625	1381	1113	1002	980
15°	2679	1498	953	885	908
20°	7071	1773	793	793	863
25°	27316	2202	629	726	847
30°	58920	2937	506	709	836
35°	88686	3480	428	696	857
40°	99901	3492	372	716	916
45°	107143	2698	341	744	992
50°	105310	1706	307	785	1092
55°	92632	841	306	879	1223
60°	58636	175	351	965	1360
65°	11986	52	363	1038	1505
70°	256	64	385	1154	1731
75°	254	169	424	1271	1949
80°	253	126	505	1389	2273
85°	252	252	1006	1510	2516

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 47°

Luminance: 109062 cd/sqm

TEST NUMBER: P1335923

CATALOG NUMBER: P3A02R40B2750DE010 E3A451WMH_4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.5	0.5
10°-20°	1.7	1.6
20°-30°	8.4	7.8
30°-40°	27.3	25.3
40°-50°	37.6	34.8
50°-60°	26.2	24.3
60°-70°	5.0	4.6
70°-80°	0.9	0.8
80°-90°	0.4	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°	10.6	9.8
0°-40°	37.9	35.1
0°-60°	101.8	94.2
0°-90°	108.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	108.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	6	6	6	6	6	
5°	6	6	6	5	5	1
15°	12	7	4	4	4	4
25°	113	9	3	3	4	58
35°	331	13	2	3	3	200
45°	346	9	1	2	3	263
55°	242	2	1	2	3	207
65°	23	0	1	2	3	41
75°	0	0	0	2	2	0
85°	0	0	0	1	1	0
90°	0	0	0	0	0	

TEST NUMBER: P1335923

CATALOG NUMBER: P3A02R40B2750DE010 E3A451WMH_4000K

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
2.5°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.7	5.6
5°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.0	6.0	5.8	5.5
7.5°	6.5	6.5	6.5	6.5	6.4	6.3	6.2	6.2	6.1	5.7	5.3
10°	7.3	7.3	7.2	7.1	7.0	6.8	6.7	6.5	6.2	5.6	5.0
12.5°	8.9	8.7	8.6	8.4	8.1	7.7	7.3	7.0	6.3	5.4	4.7
15°	11.8	11.6	11.2	10.6	10.0	9.2	8.5	7.8	6.6	5.1	4.2
17.5°	16.9	16.3	15.7	14.7	13.2	11.8	10.3	9.0	7.0	4.8	3.8
20°	30.3	30.0	26.4	23.6	19.1	16.0	13.0	10.8	7.6	4.5	3.4
22.5°	62.6	58.4	52.6	43.0	33.5	24.7	18.0	13.6	8.2	4.1	3.0
25°	112.9	106.3	93.7	75.4	55.6	39.4	26.0	17.8	9.1	3.7	2.6
27.5°	170.9	164.2	144.7	119.4	87.2	59.4	37.1	23.5	10.3	3.3	2.3
30°	232.7	227.0	202.2	167.2	122.9	83.2	49.7	29.4	11.6	2.9	2.0
31°	257.6	250.3	223.6	186.3	139.6	93.0	54.7	31.8	12.1	2.8	1.9
32°	280.5	272.3	244.5	204.5	153.2	103.6	60.3	34.0	12.5	2.6	1.8
33°	300.2	290.6	263.8	221.8	168.2	113.6	66.1	36.1	12.8	2.4	1.7
34°	317.0	308.7	279.9	239.1	181.5	123.1	71.7	38.2	13.0	2.3	1.6
35°	331.3	323.7	295.3	252.3	194.5	132.3	76.9	40.2	13.0	2.1	1.6
36°	340.9	334.3	308.6	265.8	205.4	140.1	81.2	42.0	13.0	1.9	1.5
37°	346.1	339.8	317.3	276.9	216.1	147.9	85.2	43.3	12.9	1.8	1.4
38°	348.8	343.3	323.7	285.9	223.6	153.4	88.7	44.4	12.8	1.6	1.4
39°	349.5	344.9	327.8	292.5	230.8	159.0	91.1	45.0	12.5	1.5	1.3
40°	349.0	345.0	330.0	298.3	236.4	163.4	92.9	45.2	12.2	1.3	1.3
41°	348.0	344.9	331.6	302.4	240.8	166.1	93.6	44.8	11.8	1.1	1.2
42°	347.1	343.7	332.3	305.2	243.9	167.5	93.5	44.0	11.2	1.0	1.2
43°	347.1	343.2	332.4	307.0	245.4	167.6	92.3	42.5	10.4	0.9	1.1
44°	346.5	342.9	332.9	308.2	245.8	166.7	90.5	41.0	9.5	0.8	1.1
45°	345.5	341.6	332.8	308.3	245.1	164.5	87.4	38.9	8.7	0.6	1.1
46°	343.4	339.9	331.9	307.6	243.0	161.4	83.7	36.8	7.8	0.5	1.0
47°	339.2	336.5	329.5	305.2	239.8	156.7	79.3	34.4	7.1	0.4	1.0
48°	332.1	330.2	325.4	299.9	233.8	151.0	74.7	31.8	6.4	0.4	1.0
49°	319.0	317.5	314.7	291.5	226.0	143.9	69.6	29.0	5.8	0.3	1.0
50°	308.7	307.1	301.4	277.3	214.9	135.0	64.1	26.1	5.0	0.2	0.9
51°	301.8	299.2	290.3	260.9	198.8	123.1	58.0	23.2	4.2	0.2	0.9
52°	293.2	289.3	278.2	246.1	184.0	111.2	51.5	20.3	3.7	0.2	0.9
53°	275.1	273.7	262.7	230.2	169.2	99.8	44.7	18.0	3.2	0.2	0.9
54°	259.4	257.3	242.3	208.2	153.1	87.1	37.8	15.9	2.7	0.2	0.9
55°	242.3	238.2	224.9	189.6	134.3	75.4	31.1	13.7	2.2	0.2	0.8
56°	220.8	217.2	202.9	169.8	116.9	63.5	26.1	11.2	1.7	0.2	0.8
57°	194.6	191.3	180.3	145.4	98.9	51.9	21.2	9.0	1.3	0.2	0.8
58°	169.3	165.6	153.0	122.0	79.8	41.2	17.8	7.3	1.0	0.2	0.8
59°	149.9	144.9	128.6	102.5	62.5	31.2	14.1	5.9	0.7	0.2	0.8
60°	133.7	129.6	112.8	85.3	49.0	23.0	10.4	4.5	0.4	0.2	0.8
62.5°	77.5	76.4	61.2	43.9	23.1	10.7	5.2	2.1	0.2	0.3	0.8
65°	23.1	20.1	15.7	9.3	6.0	3.6	1.9	0.7	0.1	0.3	0.7



TEST NUMBER: P1335923

CATALOG NUMBER: P3A02R40B2750DE010 E3A451WMH_4000K

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
67.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.4	0.2	0.1	0.3	0.7
70°	0.4	0.3	0.3	0.3	0.3	0.2	0.2	0.1	0.1	0.3	0.6
72.5°	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.1	0.2	0.3	0.5
75°	0.3	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.3	0.5
77.5°	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.3	0.5
80°	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.4
82.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.4
85°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.3	0.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1335923

CATALOG NUMBER: P3A02R40B2750DE010 E3A451WMH_4000K

CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
0°	5.6	5.6	5.6	5.6
2.5°	5.4	5.3	5.2	5.2
5°	5.2	5.0	5.0	4.9
7.5°	4.9	4.7	4.7	4.7
10°	4.6	4.5	4.5	4.4
12.5°	4.2	4.2	4.2	4.2
15°	3.9	3.9	4.0	4.0
17.5°	3.5	3.6	3.8	3.9
20°	3.2	3.4	3.6	3.7
22.5°	3.0	3.2	3.5	3.6
25°	2.7	3.0	3.4	3.5
27.5°	2.5	2.9	3.2	3.4
30°	2.3	2.8	3.1	3.3
31°	2.3	2.7	3.1	3.3
32°	2.2	2.6	3.1	3.2
33°	2.2	2.6	3.1	3.2
34°	2.1	2.6	3.0	3.2
35°	2.1	2.6	3.0	3.2
36°	2.0	2.5	3.0	3.2
37°	2.0	2.5	3.0	3.2
38°	1.9	2.5	3.0	3.2
39°	1.9	2.5	3.0	3.2
40°	1.9	2.5	3.0	3.2
41°	1.8	2.5	3.0	3.2
42°	1.8	2.5	3.0	3.2
43°	1.8	2.4	3.0	3.2
44°	1.8	2.4	3.0	3.2
45°	1.7	2.4	3.0	3.2
46°	1.7	2.4	3.0	3.2
47°	1.7	2.4	3.0	3.2
48°	1.7	2.4	3.0	3.2
49°	1.7	2.4	3.0	3.2
50°	1.6	2.3	3.0	3.2
51°	1.6	2.3	3.0	3.2
52°	1.6	2.3	3.0	3.2
53°	1.6	2.3	3.0	3.2
54°	1.5	2.3	3.0	3.2
55°	1.5	2.3	3.0	3.2
56°	1.5	2.3	3.0	3.1
57°	1.5	2.3	2.9	3.1
58°	1.5	2.2	2.9	3.1
59°	1.5	2.2	2.9	3.1
60°	1.5	2.2	2.9	3.1
62.5°	1.4	2.2	2.8	3.0
65°	1.3	2.0	2.8	2.9



TEST NUMBER: P1335923

CATALOG NUMBER: P3A02R40B2750DE010 E3A451WMH_4000K

CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
67.5°	1.3	1.9	2.6	2.8
70°	1.2	1.8	2.5	2.7
72.5°	1.0	1.7	2.3	2.5
75°	0.9	1.5	2.1	2.3
77.5°	0.8	1.3	1.9	2.0
80°	0.7	1.1	1.6	1.8
82.5°	0.5	0.8	1.3	1.4
85°	0.4	0.6	0.9	1.0
87.5°	0.3	0.3	0.5	0.5
90°	0.0	0.0	0.0	0.0

(END OF REPORT)