

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: P1334760

Luminaire Tested: P3A02R259735DE010 E3A451WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1334760
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-75)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A02R259735DE010 E3A451WMH
Description: 3in Adjustable LED luminaire with, R25 optic, 3500K CCT AND, 97CRI , E3A451WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

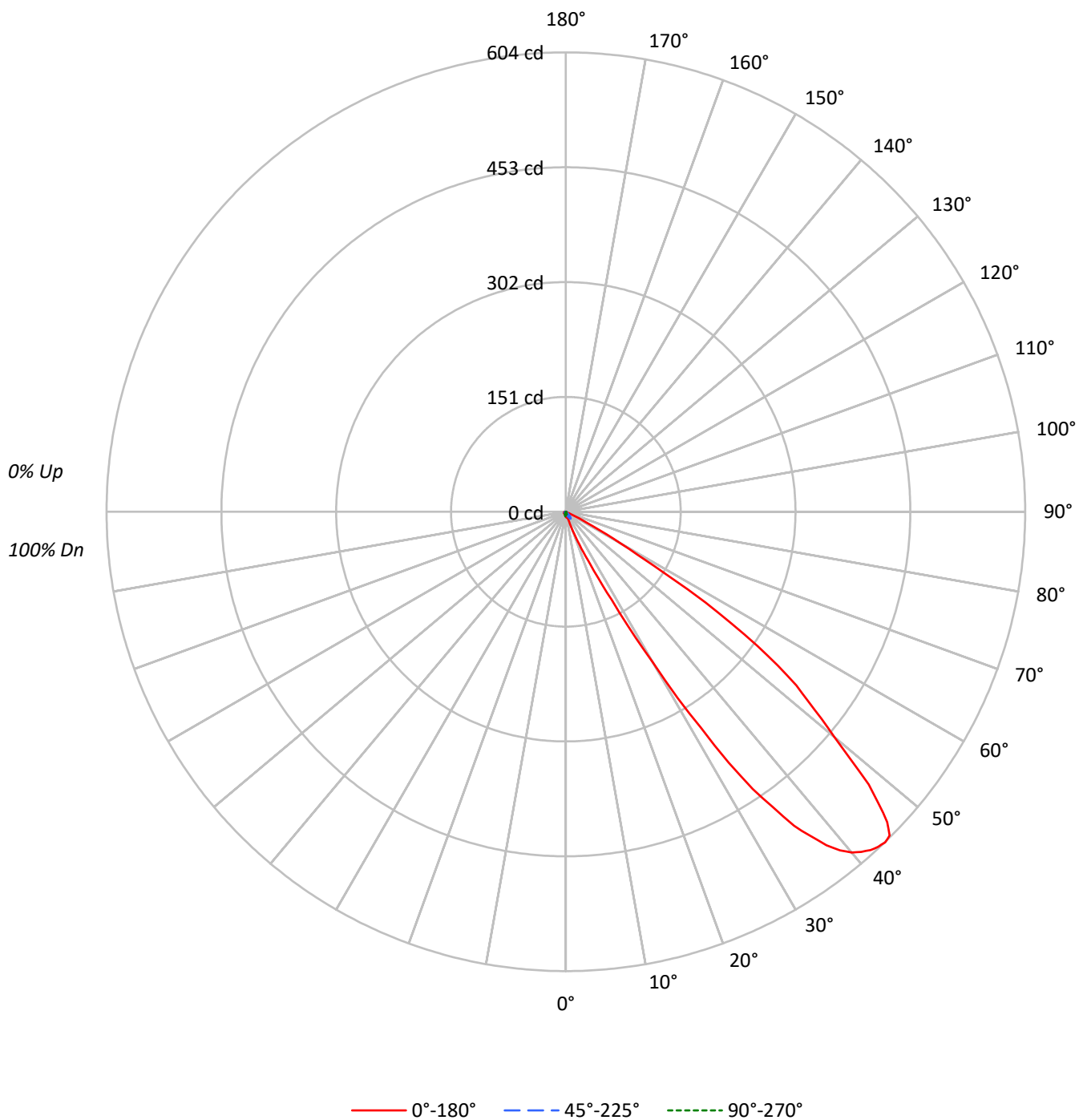
Lumens per Lamp: N/A
Luminaire Lumens: 126.0 lumens
Efficiency: N/A
Efficacy: 35.0 lumens/watt
Spacing Criteria (0/90/45): 3.65 / 0.6 / 1.37
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 3.6
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: P1334760

CATALOG NUMBER: P3A02R259735DE010 E3A451WMH

Luminous Intensity Polar Plot



TEST NUMBER: P1334760

CATALOG NUMBER: P3A02R259735DE010 E3A451WMH

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	108	104	101	97	100	97	94	96	94	92	92	91	89	87	87
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73	73
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61	61
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51	51
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42	42
6	68	55	45	39	66	54	45	39	52	44	38	50	43	38	48	42	37	35	35
7	62	48	39	32	60	47	39	32	46	38	32	44	37	32	43	36	32	29	29
8	57	43	34	27	55	42	33	27	40	33	27	39	32	27	38	32	27	25	25
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	19	30	24	19	17	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	1403	1403	1403	1403	1403
5°	1607	1541	1365	1211	1189
10°	1603	1447	1158	1002	1002
15°	1793	1249	908	863	908
20°	6324	1237	700	723	793
25°	18170	1573	556	677	774
30°	57958	2431	456	658	785
35°	126913	2891	375	616	803
40°	167428	2605	315	630	859
45°	186717	1830	310	682	930
50°	157163	955	307	716	1023
55°	117520	382	306	803	1147
60°	36357	88	307	877	1272
65°	3113	0	363	934	1401
70°	192	64	385	1090	1539
75°	169	85	508	1101	1779
80°	126	126	758	1263	2147
85°	252	252	1006	1510	2264

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 186717 cd/sqm

TEST NUMBER: P1334760

CATALOG NUMBER: P3A02R259735DE010 E3A451WMH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.6	0.5
10°-20°	1.5	1.2
20°-30°	7.0	5.5
30°-40°	33.6	26.6
40°-50°	52.6	41.8
50°-60°	27.0	21.4
60°-70°	2.6	2.0
70°-80°	0.9	0.7
80°-90°	0.4	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°	9.0	7.2
0°-40°	42.6	33.8
0°-60°	122.2	97.0
0°-90°	126.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	126.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	6	6	6	6	6	
5°	7	7	6	6	5	1
15°	8	6	4	4	4	3
25°	75	6	2	3	3	47
35°	474	11	1	2	3	288
45°	602	6	1	2	3	441
55°	307	1	1	2	3	256
65°	6	0	1	2	3	19
75°	0	0	1	1	2	0
85°	0	0	0	1	1	0
90°	0	0	0	0	0	

TEST NUMBER: P1334760

CATALOG NUMBER: P3A02R259735DE010 E3A451WMH

CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
2.5°	7.0	7.0	7.0	7.0	7.0	7.0	6.9	6.9	7.0	6.9	6.9
5°	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.2	7.2	7.2	7.0
7.5°	7.4	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.2	7.2	6.9
10°	7.2	7.2	7.2	7.2	7.1	7.1	7.1	7.0	7.0	7.0	6.5
12.5°	7.2	7.2	7.2	7.2	7.1	7.1	7.0	7.0	6.9	6.8	6.0
15°	7.9	7.9	7.9	7.8	7.7	7.5	7.4	7.3	7.2	7.0	5.5
17.5°	11.5	11.2	11.1	10.6	10.1	9.5	9.1	8.6	8.2	7.9	5.3
20°	27.1	26.9	26.4	25.1	23.6	22.0	20.3	18.4	15.7	14.0	5.3
22.5°	46.9	46.2	45.2	44.2	41.7	38.7	35.6	32.0	28.6	24.9	5.7
25°	75.1	76.6	73.3	70.6	66.2	60.8	54.9	50.0	43.8	38.0	6.5
27.5°	130.5	131.5	125.0	116.3	106.0	94.6	83.5	75.2	64.8	55.2	8.2
30°	228.9	229.8	218.9	200.5	179.2	160.4	135.0	112.8	92.2	76.4	9.6
31°	285.6	277.9	265.1	247.3	220.3	192.0	161.5	134.6	108.7	87.8	10.1
32°	335.0	334.3	319.4	292.4	265.3	230.4	192.6	157.4	125.6	99.3	10.4
33°	393.2	388.7	367.8	342.3	306.5	271.3	222.5	182.4	143.0	112.2	10.6
34°	439.8	427.9	419.2	390.1	352.3	307.5	255.2	208.8	164.8	124.6	10.8
35°	474.1	471.6	454.7	427.5	389.1	343.3	290.5	236.2	182.9	139.0	10.8
36°	510.4	502.5	486.1	461.5	424.0	376.6	317.4	259.9	204.1	152.0	10.6
37°	533.1	528.4	512.1	486.8	450.0	404.8	347.6	285.0	221.0	165.0	10.4
38°	556.5	547.1	531.0	506.7	470.7	428.2	369.4	304.2	236.5	176.4	10.1
39°	572.7	562.9	546.5	522.3	487.1	444.9	386.7	320.7	250.0	184.9	9.6
40°	584.9	575.5	558.8	534.0	499.2	458.1	401.2	335.2	261.3	192.4	9.1
41°	592.4	583.7	567.1	542.4	507.5	465.7	410.6	344.6	269.0	197.4	8.5
42°	598.7	589.8	572.9	547.6	512.6	472.1	416.3	350.6	274.2	199.9	8.1
43°	602.3	593.3	576.9	551.1	515.7	475.1	419.4	353.4	276.0	199.6	7.3
44°	604.3	595.0	578.4	552.6	517.0	475.9	419.7	352.8	274.8	196.9	6.7
45°	602.1	592.9	576.9	551.1	514.7	473.4	417.5	349.8	270.1	191.7	5.9
46°	587.6	580.6	565.9	542.2	507.4	467.2	411.8	344.1	262.9	185.3	5.0
47°	562.3	556.6	542.4	524.8	493.3	455.8	401.4	333.1	252.8	175.6	4.0
48°	535.8	527.4	514.2	496.2	469.6	435.3	384.2	317.0	237.5	163.0	3.5
49°	496.6	491.7	480.1	459.9	437.9	407.7	359.9	296.4	218.8	149.2	3.1
50°	460.7	457.4	441.1	426.2	402.8	374.7	327.0	269.2	195.5	132.2	2.8
51°	432.6	428.7	416.9	398.4	373.4	340.7	295.8	234.0	168.8	111.9	2.2
52°	403.4	401.2	390.7	371.7	347.2	314.6	265.6	204.0	142.8	94.6	1.8
53°	379.4	376.2	363.5	346.5	320.0	286.3	232.7	176.2	121.0	79.5	1.6
54°	344.5	343.2	335.0	317.2	288.5	251.8	203.0	148.4	100.9	67.4	1.3
55°	307.4	302.9	294.6	280.5	254.1	219.9	168.6	123.0	81.6	56.8	1.0
56°	262.1	261.9	247.0	235.3	211.9	175.5	134.7	96.0	66.3	47.3	0.9
57°	218.9	211.9	197.6	185.9	160.8	133.2	100.0	72.0	51.9	38.4	0.7
58°	161.9	158.2	154.5	137.4	114.1	94.4	71.4	50.6	38.4	29.3	0.4
59°	109.9	109.8	105.3	92.4	78.9	58.8	44.6	34.4	26.4	21.5	0.3
60°	82.9	80.9	72.1	63.5	49.7	37.1	26.4	20.3	16.4	13.9	0.2
62.5°	29.0	30.2	26.5	22.0	16.7	13.7	10.5	8.5	7.0	5.7	0.0
65°	6.0	6.5	5.7	5.3	4.2	3.7	3.2	2.8	2.3	2.0	0.0



TEST NUMBER: P1334760

CATALOG NUMBER: P3A02R259735DE010 E3A451WMH

CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
67.5°	0.8	0.7	0.7	0.7	0.6	0.6	0.6	0.6	0.4	0.4	0.1
70°	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.1
72.5°	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1
75°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1
77.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1
80°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
82.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
85°	0.1	0.1	0.1	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
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: P1334760

CATALOG NUMBER: P3A02R259735DE010 E3A451WMH

CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	6.4	6.4	6.4	6.4	6.4	6.4
2.5°	6.8	6.5	6.2	6.1	6.0	6.0
5°	6.7	6.2	5.9	5.5	5.4	5.4
7.5°	6.3	5.8	5.3	5.1	5.0	4.9
10°	6.0	5.2	4.8	4.5	4.5	4.5
12.5°	5.3	4.7	4.2	4.1	4.2	4.2
15°	4.8	4.0	3.8	3.8	3.9	4.0
17.5°	4.1	3.5	3.3	3.4	3.5	3.7
20°	3.7	3.0	3.0	3.1	3.4	3.4
22.5°	3.2	2.7	2.7	3.0	3.2	3.3
25°	2.9	2.3	2.4	2.8	3.1	3.2
27.5°	2.4	2.0	2.2	2.7	3.0	3.1
30°	2.1	1.8	2.1	2.6	2.9	3.1
31°	2.0	1.7	2.1	2.4	2.9	3.1
32°	1.8	1.7	2.0	2.4	2.9	3.0
33°	1.7	1.6	2.0	2.4	2.9	3.0
34°	1.6	1.4	1.9	2.4	2.9	3.0
35°	1.3	1.4	1.9	2.3	2.8	3.0
36°	1.2	1.3	1.9	2.3	2.8	3.0
37°	1.1	1.3	1.8	2.3	2.8	3.0
38°	1.0	1.2	1.8	2.3	2.8	3.0
39°	0.9	1.2	1.7	2.3	2.8	3.0
40°	0.8	1.1	1.7	2.2	2.8	3.0
41°	0.8	1.1	1.7	2.2	2.8	3.0
42°	0.7	1.1	1.7	2.2	2.8	3.0
43°	0.6	1.0	1.7	2.2	2.8	3.0
44°	0.4	1.0	1.6	2.2	2.8	3.0
45°	0.4	1.0	1.6	2.2	2.8	3.0
46°	0.3	0.9	1.6	2.2	2.8	3.0
47°	0.2	0.9	1.6	2.1	2.8	3.0
48°	0.2	0.9	1.6	2.1	2.8	3.0
49°	0.2	0.9	1.4	2.1	2.8	3.0
50°	0.2	0.9	1.4	2.1	2.8	3.0
51°	0.1	0.8	1.4	2.1	2.8	3.0
52°	0.1	0.8	1.4	2.1	2.8	3.1
53°	0.1	0.8	1.4	2.1	2.8	3.0
54°	0.1	0.8	1.3	2.1	2.8	3.0
55°	0.1	0.8	1.3	2.1	2.8	3.0
56°	0.1	0.7	1.3	2.0	2.8	3.0
57°	0.2	0.7	1.3	2.0	2.8	2.9
58°	0.2	0.7	1.3	2.0	2.7	2.9
59°	0.2	0.7	1.3	2.0	2.7	2.9
60°	0.2	0.7	1.2	2.0	2.7	2.9
62.5°	0.2	0.7	1.2	1.9	2.6	2.8
65°	0.2	0.7	1.1	1.8	2.6	2.7



TEST NUMBER: P1334760

CATALOG NUMBER: P3A02R259735DE010 E3A451WMH

CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	0.2	0.6	1.1	1.7	2.4	2.6
70°	0.3	0.6	1.0	1.7	2.3	2.4
72.5°	0.3	0.6	1.0	1.4	2.1	2.3
75°	0.3	0.6	0.9	1.3	2.0	2.1
77.5°	0.3	0.6	0.8	1.2	1.8	1.9
80°	0.4	0.6	0.7	1.0	1.6	1.7
82.5°	0.4	0.6	0.6	0.8	1.2	1.3
85°	0.3	0.4	0.4	0.6	0.8	0.9
87.5°	0.3	0.4	0.3	0.2	0.4	0.4
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)