

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: P1338526

Luminaire Tested: P3A05R359840DE010 E3A451WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1338526
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: P3A05R359840DE010 E3A451WMH
Description: 3in Adjustable LED luminaire with, R35 optic, 4000K CCT AND, 98CRI , E3A451WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

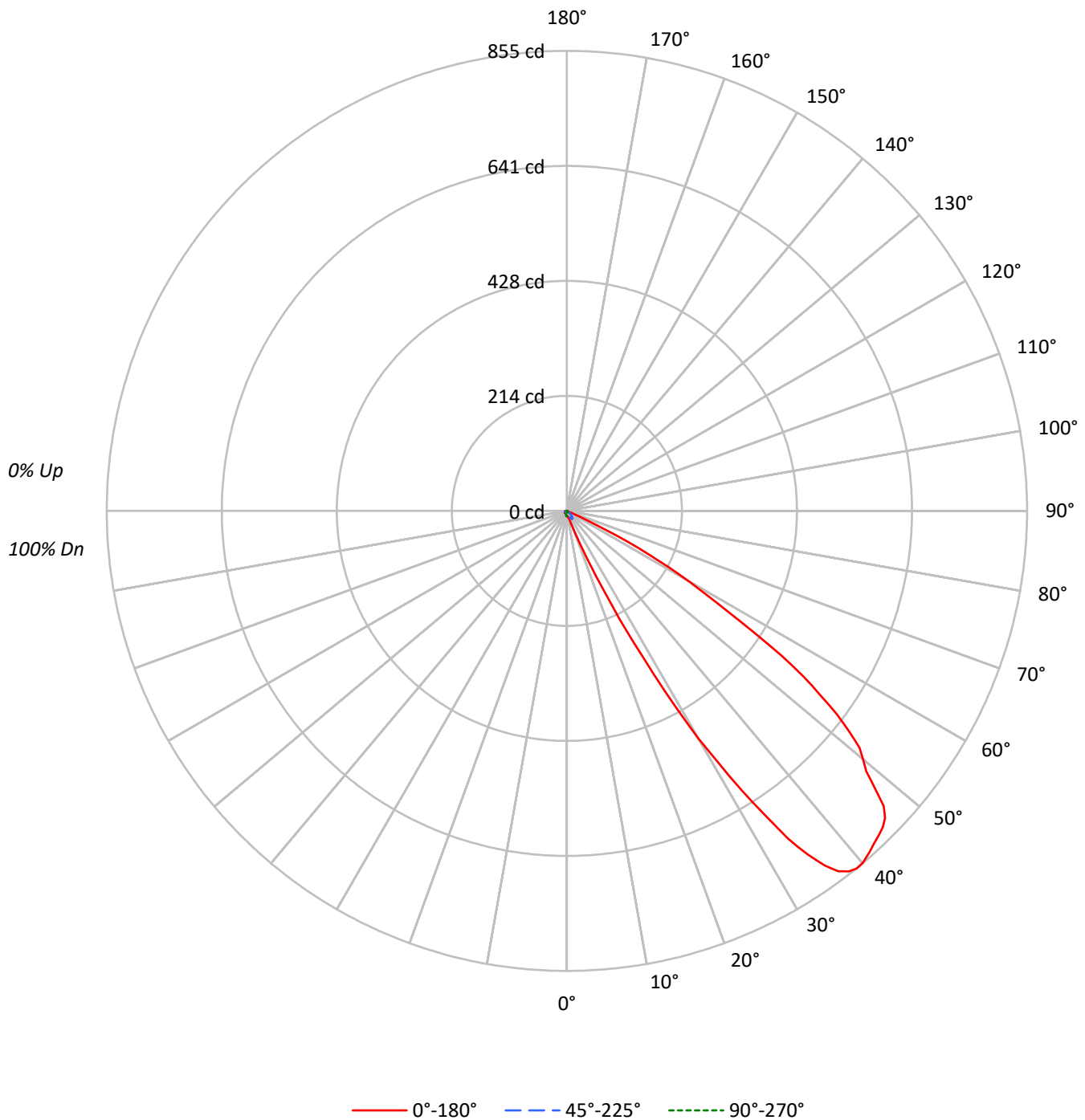
Lumens per Lamp: N/A
Luminaire Lumens: 213.0 lumens
Efficiency: N/A
Efficacy: 29.6 lumens/watt
Spacing Criteria (0/90/45): 4.01 / 0.66 / 1.41
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 7.2
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: P1338526

CATALOG NUMBER: P3A05R359840DE010 E3A451WMH

Luminous Intensity Polar Plot



TEST NUMBER: P1338526

CATALOG NUMBER: P3A05R359840DE010 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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	110	106	102	99	107	104	100	97	100	97	94	96	93	91	92	90	89
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	52
5	75	62	52	46	73	61	52	45	58	51	45	56	50	44	55	49	44
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37
7	62	48	38	32	60	47	38	32	45	37	32	44	37	31	42	36	31
8	57	42	33	27	55	41	33	27	40	32	27	39	32	26	38	31	26
9	52	38	29	23	50	37	29	23	36	28	23	35	28	22	34	27	22
10	48	34	25	19	46	33	25	19	32	25	19	31	24	19	30	24	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	2149	2149	2149	2149	2149
5°	2333	2289	2113	1915	1871
10°	2449	2227	1893	1625	1625
15°	3496	2179	1521	1407	1430
20°	8751	2334	1213	1213	1353
25°	40623	2976	919	1113	1258
30°	123462	4051	734	1013	1266
35°	208666	4685	616	990	1231
40°	244601	4637	487	1002	1317
45°	257577	3287	403	1085	1427
50°	245177	1979	409	1126	1569
55°	205450	803	459	1262	1835
60°	115035	175	526	1447	2017
65°	19872	104	519	1608	2283
70°	385	128	641	1731	2565
75°	339	169	847	1949	2965
80°	253	253	1010	2147	3410
85°	0	503	2013	2516	3774

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 46°

Luminance: 259415 cd/sqm

TEST NUMBER: P1338526

CATALOG NUMBER: P3A05R359840DE010 E3A451WMH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.9	0.4
10°-20°	2.5	1.2
20°-30°	13.1	6.1
30°-40°	56.4	26.5
40°-50°	80.5	37.8
50°-60°	49.9	23.4
60°-70°	7.6	3.6
70°-80°	1.4	0.7
80°-90°	0.7	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°	16.5	7.7
0°-40°	72.9	34.2
0°-60°	203.3	95.4
0°-90°	213.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	213.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	10	10	10	10	10	
5°	11	10	10	9	8	1
15°	15	10	7	6	6	6
25°	168	12	4	5	5	100
35°	780	18	2	4	5	468
45°	831	11	1	4	5	628
55°	537	2	1	3	5	458
65°	38	0	1	3	4	78
75°	0	0	1	2	4	0
85°	0	0	1	1	2	0
90°	0	0	0	0	0	

TEST NUMBER: P1338526

CATALOG NUMBER: P3A05R359840DE010 E3A451WMH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8
2.5°	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	9.8	9.6
5°	10.6	10.6	10.4	10.4	10.4	10.4	10.4	10.4	10.0	9.6	9.0
7.5°	10.8	10.8	10.6	10.6	10.6	10.6	10.4	10.2	9.8	9.0	8.5
10°	11.0	11.0	11.0	11.0	10.8	10.6	10.4	10.0	9.4	8.5	7.9
12.5°	12.3	12.3	12.1	11.7	11.3	11.0	10.6	9.8	8.7	7.7	7.1
15°	15.4	15.2	14.8	14.2	13.5	12.5	11.7	9.6	7.9	6.7	6.3
17.5°	21.5	21.2	20.6	18.7	16.9	15.2	13.7	9.6	7.1	6.0	5.6
20°	37.5	37.7	33.6	29.0	25.2	21.0	17.1	10.0	6.3	5.2	5.0
22.5°	78.3	75.2	65.6	54.4	41.5	32.1	24.2	11.0	5.6	4.4	4.4
25°	167.9	156.1	132.9	100.4	70.8	50.2	35.2	12.3	5.0	3.8	4.0
27.5°	306.5	295.9	249.2	187.7	124.6	75.8	47.7	14.0	4.4	3.3	3.7
30°	487.6	458.4	397.4	307.6	208.2	115.9	64.0	16.0	3.7	2.9	3.5
31°	544.1	530.7	456.5	355.9	244.0	137.7	71.0	16.5	3.5	2.9	3.3
32°	611.3	587.4	520.9	408.8	280.3	157.1	79.2	17.1	3.3	2.5	3.3
33°	671.2	648.2	567.2	455.3	317.1	179.2	88.1	17.3	2.9	2.5	3.1
34°	734.3	702.8	622.6	504.0	354.8	203.0	96.1	17.5	2.7	2.3	3.1
35°	779.5	748.0	670.3	542.4	387.2	224.2	105.4	17.5	2.5	2.3	2.9
36°	814.5	786.8	711.4	582.0	419.6	243.2	112.7	17.5	2.1	2.1	2.9
37°	838.5	812.2	739.1	616.1	444.2	260.2	119.2	17.5	1.9	2.1	2.9
38°	850.3	828.3	765.8	640.9	468.0	273.4	124.4	17.1	1.7	1.9	2.7
39°	855.3	837.4	782.2	661.8	485.9	285.0	128.2	16.7	1.5	1.9	2.7
40°	854.5	838.9	791.4	676.2	500.3	292.8	130.4	16.2	1.3	1.7	2.7
41°	850.1	836.6	796.2	688.5	509.0	298.2	130.9	15.6	1.2	1.7	2.5
42°	845.1	832.8	797.8	695.1	514.5	300.0	129.4	14.8	1.2	1.5	2.5
43°	839.9	828.5	797.8	697.2	515.9	298.8	126.9	13.5	1.0	1.5	2.5
44°	835.6	824.9	795.3	696.6	513.0	294.4	122.3	11.9	0.8	1.5	2.5
45°	830.6	820.1	792.0	693.0	507.4	286.9	116.5	10.6	0.6	1.3	2.5
46°	821.8	813.5	786.2	685.5	498.6	276.5	109.2	9.6	0.4	1.3	2.3
47°	804.7	797.6	775.1	674.3	486.8	264.2	101.7	8.7	0.4	1.3	2.3
48°	770.3	770.1	752.8	653.6	468.2	248.8	93.8	7.7	0.4	1.3	2.3
49°	737.0	733.5	712.0	617.0	441.5	230.3	85.6	6.9	0.2	1.3	2.3
50°	718.7	711.2	675.9	574.0	407.2	204.8	76.7	5.8	0.2	1.2	2.3
51°	699.7	688.9	647.2	535.1	366.5	180.2	67.1	4.6	0.2	1.2	2.1
52°	665.3	655.1	608.4	498.0	326.9	155.0	57.9	3.8	0.2	1.2	2.3
53°	628.2	613.6	562.8	457.2	292.1	132.7	48.5	3.3	0.2	1.2	2.1
54°	581.4	574.9	516.7	407.2	251.3	111.1	39.8	2.7	0.2	1.2	2.1
55°	537.4	527.8	467.2	356.1	214.4	91.1	33.3	2.1	0.2	1.2	2.1
56°	481.3	466.9	410.1	309.2	176.9	73.5	28.1	1.7	0.2	1.2	2.1
57°	414.4	399.0	354.2	257.1	138.8	56.0	23.5	1.3	0.2	1.2	2.1
58°	350.5	337.3	289.2	198.4	104.6	38.8	19.4	1.0	0.2	1.0	2.1
59°	302.8	288.2	240.5	152.7	72.7	28.6	14.6	0.8	0.2	1.2	2.1
60°	262.3	243.4	193.6	118.3	51.9	20.6	10.8	0.4	0.4	1.2	2.1
62.5°	151.1	133.4	92.5	48.1	21.3	10.6	5.2	0.2	0.4	1.2	2.1
65°	38.3	34.0	22.1	10.4	6.0	3.7	1.9	0.2	0.4	1.0	1.9



TEST NUMBER: P1338526

CATALOG NUMBER: P3A05R359840DE010 E3A451WMH

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
67.5°	1.3	1.3	1.3	1.2	1.0	0.8	0.4	0.2	0.4	1.0	1.9
70°	0.6	0.6	0.6	0.4	0.4	0.2	0.2	0.2	0.4	1.0	1.7
72.5°	0.4	0.4	0.4	0.4	0.2	0.2	0.2	0.2	0.6	1.0	1.5
75°	0.4	0.4	0.4	0.4	0.2	0.2	0.2	0.2	0.6	1.0	1.5
77.5°	0.4	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.6	0.8	1.3
80°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.6	0.8	1.2
82.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.6	0.8	1.0
85°	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.2	0.6	0.8	0.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.6	0.8	0.6
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: P1338526

CATALOG NUMBER: P3A05R359840DE010 E3A451WMH

CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
0°	9.8	9.8	9.8
2.5°	9.2	9.2	9.2
5°	8.7	8.7	8.5
7.5°	8.1	7.9	7.9
10°	7.3	7.3	7.3
12.5°	6.7	6.7	6.7
15°	6.2	6.3	6.3
17.5°	5.6	6.0	6.0
20°	5.2	5.6	5.8
22.5°	4.8	5.2	5.4
25°	4.6	5.0	5.2
27.5°	4.2	4.8	5.2
30°	4.0	4.6	5.0
31°	4.0	4.6	4.8
32°	3.8	4.6	4.8
33°	3.8	4.6	4.8
34°	3.8	4.4	4.8
35°	3.7	4.4	4.6
36°	3.7	4.4	4.6
37°	3.7	4.4	4.8
38°	3.7	4.4	4.6
39°	3.5	4.4	4.6
40°	3.5	4.4	4.6
41°	3.5	4.4	4.6
42°	3.5	4.4	4.6
43°	3.5	4.4	4.6
44°	3.5	4.2	4.6
45°	3.5	4.2	4.6
46°	3.5	4.4	4.6
47°	3.5	4.4	4.8
48°	3.5	4.2	4.6
49°	3.3	4.2	4.6
50°	3.3	4.2	4.6
51°	3.3	4.4	4.8
52°	3.3	4.4	4.8
53°	3.3	4.4	4.8
54°	3.3	4.4	4.6
55°	3.3	4.4	4.8
56°	3.3	4.4	4.6
57°	3.3	4.4	4.6
58°	3.3	4.2	4.6
59°	3.3	4.2	4.6
60°	3.3	4.2	4.6
62.5°	3.1	4.2	4.6
65°	3.1	4.0	4.4



TEST NUMBER: P1338526

CATALOG NUMBER: P3A05R359840DE010 E3A451WMH

CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
67.5°	2.9	4.0	4.2
70°	2.7	3.8	4.0
72.5°	2.5	3.7	3.8
75°	2.3	3.3	3.5
77.5°	1.9	2.9	3.3
80°	1.7	2.5	2.7
82.5°	1.3	2.1	2.3
85°	1.0	1.5	1.5
87.5°	0.4	0.8	0.8
90°	0.0	0.0	0.0

(END OF REPORT)