

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: P1338462

Luminaire Tested: P3A05R359740DE010 E3A451WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1338462
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: P3A05R359740DE010 E3A451WMH
Description: 3in Adjustable LED luminaire with, R35 optic, 4000K CCT AND, 97CRI , E3A451WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

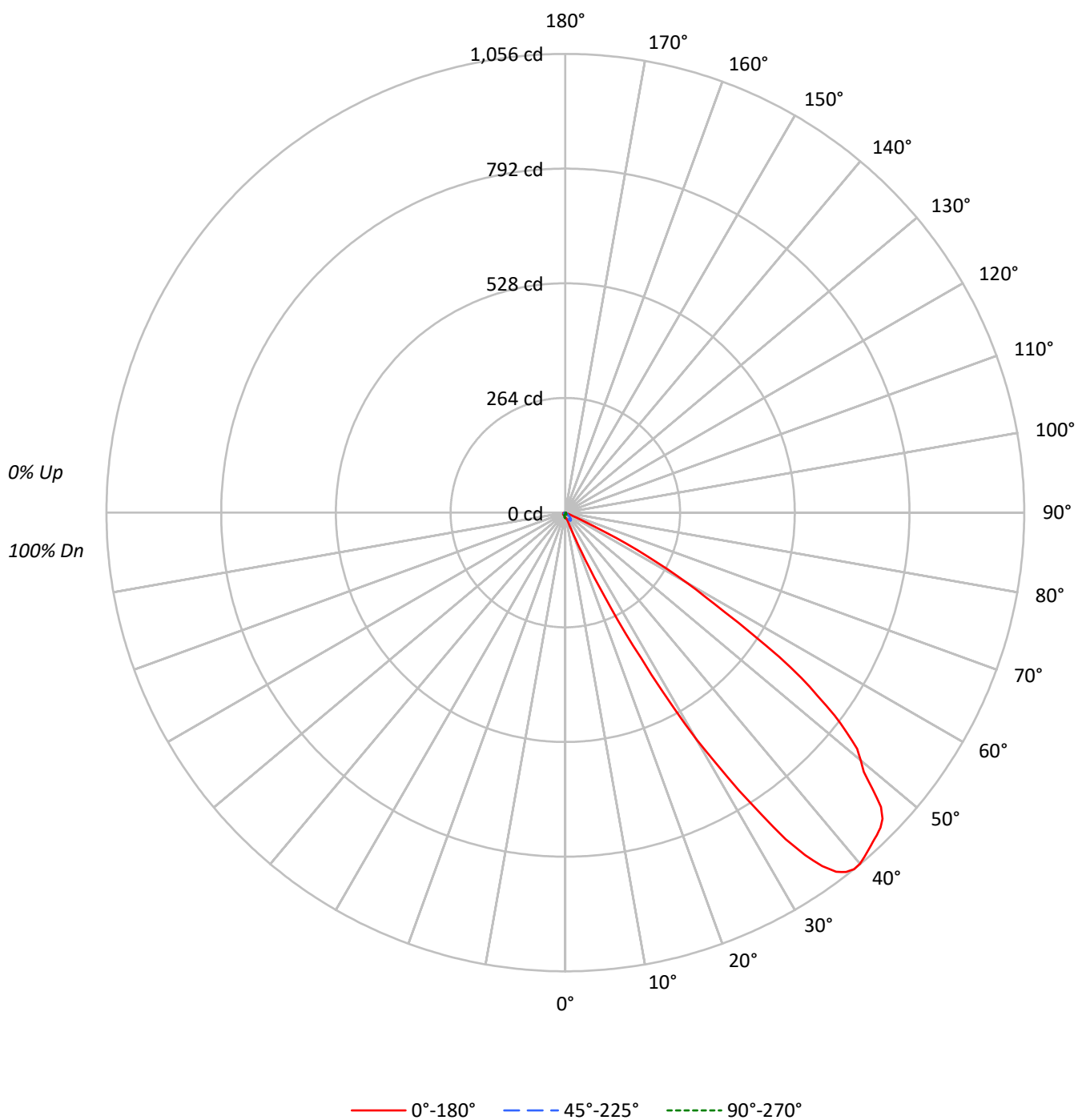
Lumens per Lamp: N/A
Luminaire Lumens: 263.0 lumens
Efficiency: N/A
Efficacy: 36.5 lumens/watt
Spacing Criteria (0/90/45): 4.01 / 0.66 / 1.41
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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

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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	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°	2653	2653	2653	2653	2653
5°	2884	2818	2619	2355	2289
10°	3006	2739	2316	2004	2004
15°	4313	2701	1884	1725	1771
20°	10804	2870	1493	1493	1657
25°	50156	3678	1137	1379	1548
30°	152454	4988	912	1266	1570
35°	257654	5782	750	1205	1526
40°	302023	5696	601	1231	1632
45°	318049	4062	527	1333	1768
50°	302762	2422	478	1365	1944
55°	253697	994	535	1529	2256
60°	142006	219	614	1754	2500
65°	24490	104	623	1972	2854
70°	449	128	769	2116	3206
75°	424	169	1017	2372	3643
80°	253	253	1137	2652	4167
85°	0	503	2264	3019	4780

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 46°

Luminance: 320307 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.1	0.4
10°-20°	3.1	1.2
20°-30°	16.1	6.1
30°-40°	69.7	26.5
40°-50°	99.4	37.8
50°-60°	61.6	23.4
60°-70°	9.4	3.6
70°-80°	1.7	0.7
80°-90°	0.9	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°	20.3	7.7
0°-40°	90.0	34.2
0°-60°	251.0	95.4
0°-90°	263.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	263.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	12	12	12	12	12	
5°	13	13	12	11	10	1
15°	19	12	8	8	8	7
25°	207	15	5	6	6	124
35°	962	22	3	4	6	578
45°	1026	13	2	4	6	775
55°	664	3	1	4	6	565
65°	47	0	1	4	6	97
75°	0	0	1	3	4	1
85°	0	0	1	1	2	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°	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1
2.5°	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.1	11.9
5°	13.1	13.1	12.8	12.8	12.8	12.8	12.8	12.8	12.3	11.9	11.2
7.5°	13.3	13.3	13.1	13.1	13.1	13.1	12.8	12.6	12.1	11.2	10.4
10°	13.5	13.5	13.5	13.5	13.3	13.1	12.8	12.3	11.6	10.4	9.7
12.5°	15.2	15.2	15.0	14.5	14.0	13.5	13.1	12.1	10.7	9.5	8.8
15°	19.0	18.8	18.3	17.6	16.6	15.4	14.5	11.9	9.7	8.3	7.8
17.5°	26.6	26.1	25.4	23.0	20.9	18.8	16.9	11.9	8.8	7.4	6.9
20°	46.3	46.5	41.5	35.8	31.1	25.9	21.1	12.3	7.8	6.4	6.2
22.5°	96.6	92.8	81.0	67.2	51.3	39.6	29.9	13.5	6.9	5.5	5.5
25°	207.3	192.8	164.1	123.9	87.4	62.0	43.4	15.2	6.2	4.7	5.0
27.5°	378.4	365.4	307.7	231.7	153.8	93.5	58.9	17.3	5.5	4.0	4.5
30°	602.1	566.0	490.7	379.9	257.1	143.2	79.1	19.7	4.5	3.6	4.3
31°	671.9	655.3	563.6	439.5	301.3	170.0	87.6	20.4	4.3	3.6	4.0
32°	754.7	725.3	643.2	504.7	346.1	194.0	97.8	21.1	4.0	3.1	4.0
33°	828.8	800.3	700.4	562.2	391.5	221.3	108.7	21.4	3.6	3.1	3.8
34°	906.7	867.7	768.7	622.3	438.0	250.7	118.7	21.6	3.3	2.8	3.8
35°	962.5	923.5	827.6	669.7	478.2	276.8	130.1	21.6	3.1	2.8	3.6
36°	1005.7	971.5	878.4	718.7	518.0	300.3	139.1	21.6	2.6	2.6	3.6
37°	1035.4	1002.8	912.6	760.7	548.4	321.2	147.2	21.6	2.4	2.6	3.6
38°	1049.8	1022.8	945.6	791.3	577.9	337.6	153.6	21.1	2.1	2.4	3.3
39°	1056.0	1033.9	965.8	817.2	599.9	351.8	158.4	20.7	1.9	2.4	3.3
40°	1055.1	1035.8	977.2	835.0	617.8	361.6	161.0	19.9	1.7	2.1	3.3
41°	1049.6	1033.0	983.1	850.2	628.4	368.2	161.7	19.2	1.4	2.1	3.1
42°	1043.4	1028.2	985.0	858.3	635.3	370.4	159.8	18.3	1.4	1.9	3.1
43°	1037.0	1023.0	985.0	860.9	637.0	368.9	156.7	16.6	1.2	1.9	3.1
44°	1031.8	1018.5	981.9	860.2	633.4	363.5	151.0	14.7	0.9	1.9	3.1
45°	1025.6	1012.6	977.9	855.6	626.5	354.2	143.9	13.1	0.7	1.7	3.1
46°	1014.7	1004.5	970.8	846.4	615.6	341.4	134.9	11.9	0.5	1.7	2.8
47°	993.6	984.8	957.0	832.6	601.1	326.2	125.6	10.7	0.5	1.7	2.8
48°	951.1	950.8	929.5	807.0	578.1	307.2	115.9	9.5	0.5	1.7	2.8
49°	910.0	905.7	879.1	761.9	545.1	284.4	105.6	8.5	0.2	1.7	2.8
50°	887.5	878.2	834.5	708.7	502.8	252.8	94.7	7.1	0.2	1.4	2.8
51°	863.9	850.7	799.1	660.7	452.5	222.5	82.9	5.7	0.2	1.4	2.6
52°	821.5	808.9	751.2	614.9	403.6	191.4	71.5	4.7	0.2	1.4	2.8
53°	775.6	757.6	694.9	564.6	360.6	163.8	59.8	4.0	0.2	1.4	2.6
54°	717.9	709.9	637.9	502.8	310.3	137.2	49.1	3.3	0.2	1.4	2.6
55°	663.6	651.7	576.9	439.7	264.7	112.5	41.1	2.6	0.2	1.4	2.6
56°	594.2	576.4	506.4	381.8	218.4	90.7	34.7	2.1	0.2	1.4	2.6
57°	511.6	492.6	437.3	317.4	171.4	69.1	29.0	1.7	0.2	1.4	2.6
58°	432.8	416.4	357.1	245.0	129.2	48.0	24.0	1.2	0.2	1.2	2.6
59°	373.9	355.9	297.0	188.5	89.7	35.4	18.0	0.9	0.2	1.4	2.6
60°	323.8	300.6	239.1	146.0	64.1	25.4	13.3	0.5	0.5	1.4	2.6
62.5°	186.6	164.8	114.2	59.4	26.4	13.1	6.4	0.2	0.5	1.4	2.6
65°	47.2	42.0	27.3	12.8	7.4	4.5	2.4	0.2	0.5	1.2	2.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
67.5°	1.7	1.7	1.7	1.4	1.2	0.9	0.5	0.2	0.5	1.2	2.4
70°	0.7	0.7	0.7	0.5	0.5	0.2	0.2	0.2	0.5	1.2	2.1
72.5°	0.5	0.5	0.5	0.5	0.2	0.2	0.2	0.2	0.7	1.2	1.9
75°	0.5	0.5	0.5	0.5	0.2	0.2	0.2	0.2	0.7	1.2	1.9
77.5°	0.5	0.5	0.2	0.2	0.2	0.2	0.2	0.2	0.7	0.9	1.7
80°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.7	0.9	1.4
82.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.7	0.9	1.2
85°	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.2	0.7	0.9	0.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.7	0.9	0.7
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°	12.1	12.1	12.1
2.5°	11.4	11.4	11.4
5°	10.7	10.7	10.4
7.5°	10.0	9.7	9.7
10°	9.0	9.0	9.0
12.5°	8.3	8.3	8.3
15°	7.6	7.8	7.8
17.5°	6.9	7.4	7.4
20°	6.4	6.9	7.1
22.5°	5.9	6.4	6.6
25°	5.7	6.2	6.4
27.5°	5.2	5.9	6.4
30°	5.0	5.7	6.2
31°	5.0	5.7	5.9
32°	4.7	5.7	5.9
33°	4.7	5.7	5.9
34°	4.7	5.5	5.9
35°	4.5	5.5	5.7
36°	4.5	5.5	5.7
37°	4.5	5.5	5.9
38°	4.5	5.5	5.7
39°	4.3	5.5	5.7
40°	4.3	5.5	5.7
41°	4.3	5.5	5.7
42°	4.3	5.5	5.7
43°	4.3	5.5	5.7
44°	4.3	5.2	5.7
45°	4.3	5.2	5.7
46°	4.3	5.5	5.7
47°	4.3	5.5	5.9
48°	4.3	5.2	5.7
49°	4.0	5.2	5.7
50°	4.0	5.2	5.7
51°	4.0	5.5	5.9
52°	4.0	5.5	5.9
53°	4.0	5.5	5.9
54°	4.0	5.5	5.7
55°	4.0	5.5	5.9
56°	4.0	5.5	5.7
57°	4.0	5.5	5.7
58°	4.0	5.2	5.7
59°	4.0	5.2	5.7
60°	4.0	5.2	5.7
62.5°	3.8	5.2	5.7
65°	3.8	5.0	5.5



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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
67.5°	3.6	5.0	5.2
70°	3.3	4.7	5.0
72.5°	3.1	4.5	4.7
75°	2.8	4.0	4.3
77.5°	2.4	3.6	4.0
80°	2.1	3.1	3.3
82.5°	1.7	2.6	2.8
85°	1.2	1.9	1.9
87.5°	0.5	0.9	0.9
90°	0.0	0.0	0.0

(END OF REPORT)