

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: P1338334

Luminaire Tested: P3A05R359030D2WDE010 E3A451WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1338334
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: P3A05R359030D2WDE010 E3A451WMH
Description: 3in Adjustable Dim to Warm LED luminaire with, R35 optic, 3000K CCT AND, 90CRI ,
E3A451WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

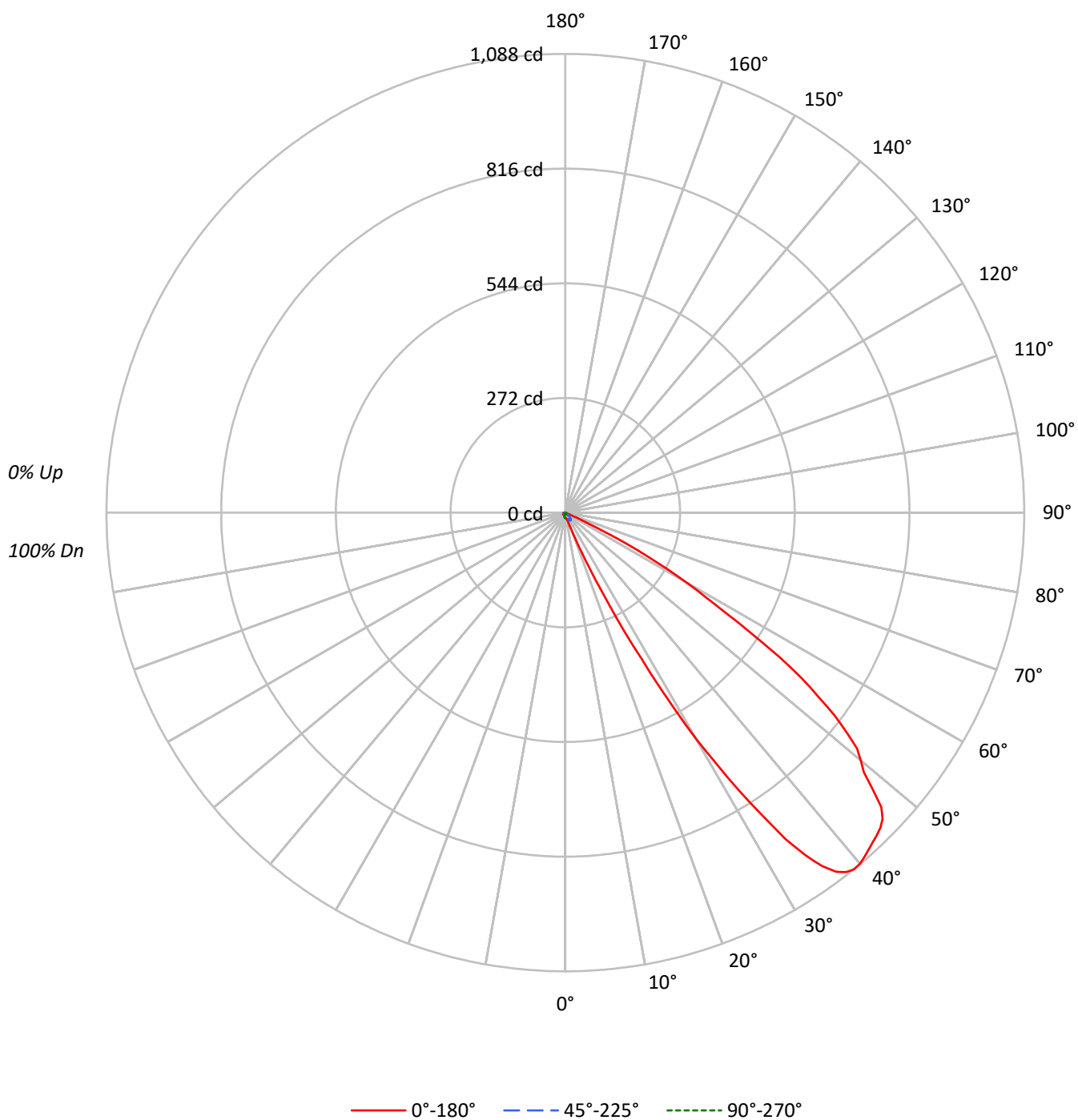
Lumens per Lamp: N/A
Luminaire Lumens: 271.0 lumens
Efficiency: N/A
Efficacy: 24.4 lumens/watt
Spacing Criteria (0/90/45): 4.01 / 0.66 / 1.41
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11.1
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
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°	2741	2741	2741	2741	2741
5°	2972	2906	2685	2421	2377
10°	3095	2828	2405	2071	2071
15°	4450	2770	1952	1771	1839
20°	11131	2964	1540	1540	1703
25°	51680	3799	1186	1428	1597
30°	157087	5140	937	1291	1621
35°	265497	5970	776	1231	1579
40°	311212	5868	630	1260	1689
45°	327724	4186	527	1364	1830
50°	311939	2490	512	1433	2013
55°	261420	1032	573	1606	2332
60°	146348	219	658	1842	2588
65°	25269	104	623	2024	2906
70°	449	128	769	2180	3270
75°	424	169	1017	2457	3728
80°	253	253	1263	2778	4293
85°	0	503	2516	3019	5032

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 46°

Luminance: 330061 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.1	0.4
10°-20°	3.2	1.2
20°-30°	16.6	6.1
30°-40°	71.8	26.5
40°-50°	102.4	37.8
50°-60°	63.4	23.4
60°-70°	9.6	3.6
70°-80°	1.8	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°	21.0	7.7
0°-40°	92.8	34.2
0°-60°	258.6	95.4
0°-90°	271.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	271.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	12	12	12	12	12	
5°	14	13	12	11	11	1
15°	20	12	9	8	8	7
25°	214	16	5	6	7	128
35°	992	22	3	5	6	595
45°	1057	14	2	4	6	798
55°	684	3	2	4	6	582
65°	49	0	1	4	6	99
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°	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
2.5°	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	12.5	12.2
5°	13.5	13.5	13.2	13.2	13.2	13.2	13.2	13.2	12.7	12.2	11.5
7.5°	13.7	13.7	13.5	13.5	13.5	13.5	13.2	13.0	12.5	11.5	10.8
10°	13.9	13.9	13.9	13.9	13.7	13.5	13.2	12.7	12.0	10.8	10.0
12.5°	15.7	15.7	15.4	14.9	14.4	13.9	13.5	12.5	11.0	9.8	9.1
15°	19.6	19.3	18.8	18.1	17.1	15.9	14.9	12.2	10.0	8.6	8.1
17.5°	27.4	26.9	26.2	23.7	21.5	19.3	17.4	12.2	9.1	7.6	7.1
20°	47.7	47.9	42.8	36.9	32.0	26.7	21.8	12.7	8.1	6.6	6.4
22.5°	99.6	95.7	83.4	69.2	52.8	40.9	30.8	13.9	7.1	5.6	5.6
25°	213.6	198.6	169.0	127.7	90.0	63.8	44.8	15.7	6.4	4.9	5.1
27.5°	389.9	376.5	317.0	238.8	158.5	96.4	60.7	17.9	5.6	4.2	4.6
30°	620.4	583.2	505.7	391.4	264.9	147.5	81.5	20.3	4.6	3.7	4.4
31°	692.3	675.2	580.8	452.8	310.4	175.2	90.3	21.0	4.4	3.7	4.2
32°	777.7	747.4	662.7	520.1	356.7	199.9	100.8	21.8	4.2	3.2	4.2
33°	854.0	824.7	721.7	579.3	403.4	228.0	112.0	22.0	3.7	3.2	3.9
34°	934.3	894.1	792.1	641.2	451.4	258.3	122.3	22.3	3.4	2.9	3.9
35°	991.8	951.6	852.8	690.1	492.7	285.2	134.1	22.3	3.2	2.9	3.7
36°	1036.3	1001.0	905.2	740.5	533.8	309.5	143.4	22.3	2.7	2.7	3.7
37°	1066.9	1033.3	940.4	783.8	565.1	331.0	151.7	22.3	2.4	2.7	3.7
38°	1081.8	1053.9	974.4	815.4	595.4	347.9	158.3	21.8	2.2	2.4	3.4
39°	1088.1	1065.4	995.2	842.0	618.2	362.5	163.2	21.3	2.0	2.4	3.4
40°	1087.2	1067.3	1006.9	860.4	636.5	372.6	165.9	20.5	1.7	2.2	3.4
41°	1081.5	1064.4	1013.0	876.0	647.6	379.4	166.6	19.8	1.5	2.2	3.2
42°	1075.2	1059.5	1015.0	884.4	654.6	381.6	164.6	18.8	1.5	2.0	3.2
43°	1068.6	1054.1	1015.0	887.0	656.4	380.2	161.5	17.1	1.2	2.0	3.2
44°	1063.2	1049.5	1011.8	886.3	652.7	374.5	155.6	15.2	1.0	2.0	3.2
45°	1056.8	1043.4	1007.7	881.7	645.6	365.0	148.2	13.5	0.7	1.7	3.2
46°	1045.6	1035.1	1000.3	872.1	634.3	351.8	139.0	12.2	0.5	1.7	2.9
47°	1023.8	1014.7	986.1	857.9	619.4	336.1	129.4	11.0	0.5	1.7	2.9
48°	980.0	979.8	957.7	831.5	595.7	316.6	119.4	9.8	0.5	1.7	2.9
49°	937.7	933.3	905.9	785.0	561.7	293.1	108.9	8.8	0.2	1.7	2.9
50°	914.4	904.9	859.9	730.2	518.1	260.5	97.6	7.3	0.2	1.5	2.9
51°	890.2	876.5	823.4	680.8	466.3	229.2	85.4	5.9	0.2	1.5	2.7
52°	846.4	833.5	774.0	633.6	415.9	197.2	73.6	4.9	0.2	1.5	2.9
53°	799.2	780.6	716.0	581.7	371.6	168.8	61.6	4.2	0.2	1.5	2.7
54°	739.8	731.5	657.3	518.1	319.7	141.4	50.6	3.4	0.2	1.5	2.7
55°	683.8	671.5	594.5	453.1	272.8	116.0	42.3	2.7	0.2	1.5	2.7
56°	612.3	594.0	521.8	393.4	225.1	93.5	35.7	2.2	0.2	1.5	2.7
57°	527.2	507.6	450.6	327.1	176.6	71.2	29.8	1.7	0.2	1.5	2.7
58°	446.0	429.1	367.9	252.5	133.1	49.4	24.7	1.2	0.2	1.2	2.7
59°	385.3	366.7	306.0	194.2	92.5	36.5	18.6	1.0	0.2	1.5	2.7
60°	333.7	309.7	246.3	150.5	66.1	26.2	13.7	0.5	0.5	1.5	2.7
62.5°	192.3	169.8	117.7	61.2	27.2	13.5	6.6	0.2	0.5	1.5	2.7
65°	48.7	43.3	28.1	13.2	7.6	4.6	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	1.5	1.2	1.0	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	2.2
72.5°	0.5	0.5	0.5	0.5	0.2	0.2	0.2	0.2	0.7	1.2	2.0
75°	0.5	0.5	0.5	0.5	0.2	0.2	0.2	0.2	0.7	1.2	2.0
77.5°	0.5	0.5	0.2	0.2	0.2	0.2	0.2	0.2	0.7	1.0	1.7
80°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.7	1.0	1.5
82.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.7	1.0	1.2
85°	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.2	0.7	1.0	1.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.7	1.0	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°	12.5	12.5	12.5
2.5°	11.7	11.7	11.7
5°	11.0	11.0	10.8
7.5°	10.3	10.0	10.0
10°	9.3	9.3	9.3
12.5°	8.6	8.6	8.6
15°	7.8	8.1	8.1
17.5°	7.1	7.6	7.6
20°	6.6	7.1	7.3
22.5°	6.1	6.6	6.8
25°	5.9	6.4	6.6
27.5°	5.4	6.1	6.6
30°	5.1	5.9	6.4
31°	5.1	5.9	6.1
32°	4.9	5.9	6.1
33°	4.9	5.9	6.1
34°	4.9	5.6	6.1
35°	4.6	5.6	5.9
36°	4.6	5.6	5.9
37°	4.6	5.6	6.1
38°	4.6	5.6	5.9
39°	4.4	5.6	5.9
40°	4.4	5.6	5.9
41°	4.4	5.6	5.9
42°	4.4	5.6	5.9
43°	4.4	5.6	5.9
44°	4.4	5.4	5.9
45°	4.4	5.4	5.9
46°	4.4	5.6	5.9
47°	4.4	5.6	6.1
48°	4.4	5.4	5.9
49°	4.2	5.4	5.9
50°	4.2	5.4	5.9
51°	4.2	5.6	6.1
52°	4.2	5.6	6.1
53°	4.2	5.6	6.1
54°	4.2	5.6	5.9
55°	4.2	5.6	6.1
56°	4.2	5.6	5.9
57°	4.2	5.6	5.9
58°	4.2	5.4	5.9
59°	4.2	5.4	5.9
60°	4.2	5.4	5.9
62.5°	3.9	5.4	5.9
65°	3.9	5.1	5.6



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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
67.5°	3.7	5.1	5.4
70°	3.4	4.9	5.1
72.5°	3.2	4.6	4.9
75°	2.9	4.2	4.4
77.5°	2.4	3.7	4.2
80°	2.2	3.2	3.4
82.5°	1.7	2.7	2.9
85°	1.2	2.0	2.0
87.5°	0.5	1.0	1.0
90°	0.0	0.0	0.0

(END OF REPORT)