

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: P1341371

Luminaire Tested: P3A09R309030D2WDE010 E3CA451MMS

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1341371
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-76)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A09R309030D2WDE010 E3CA451MMS
Description: 3in Adjustable Dim to Warm LED luminaire with, R30 optic, 3000K CCT AND, 90CRI ,
E3CA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

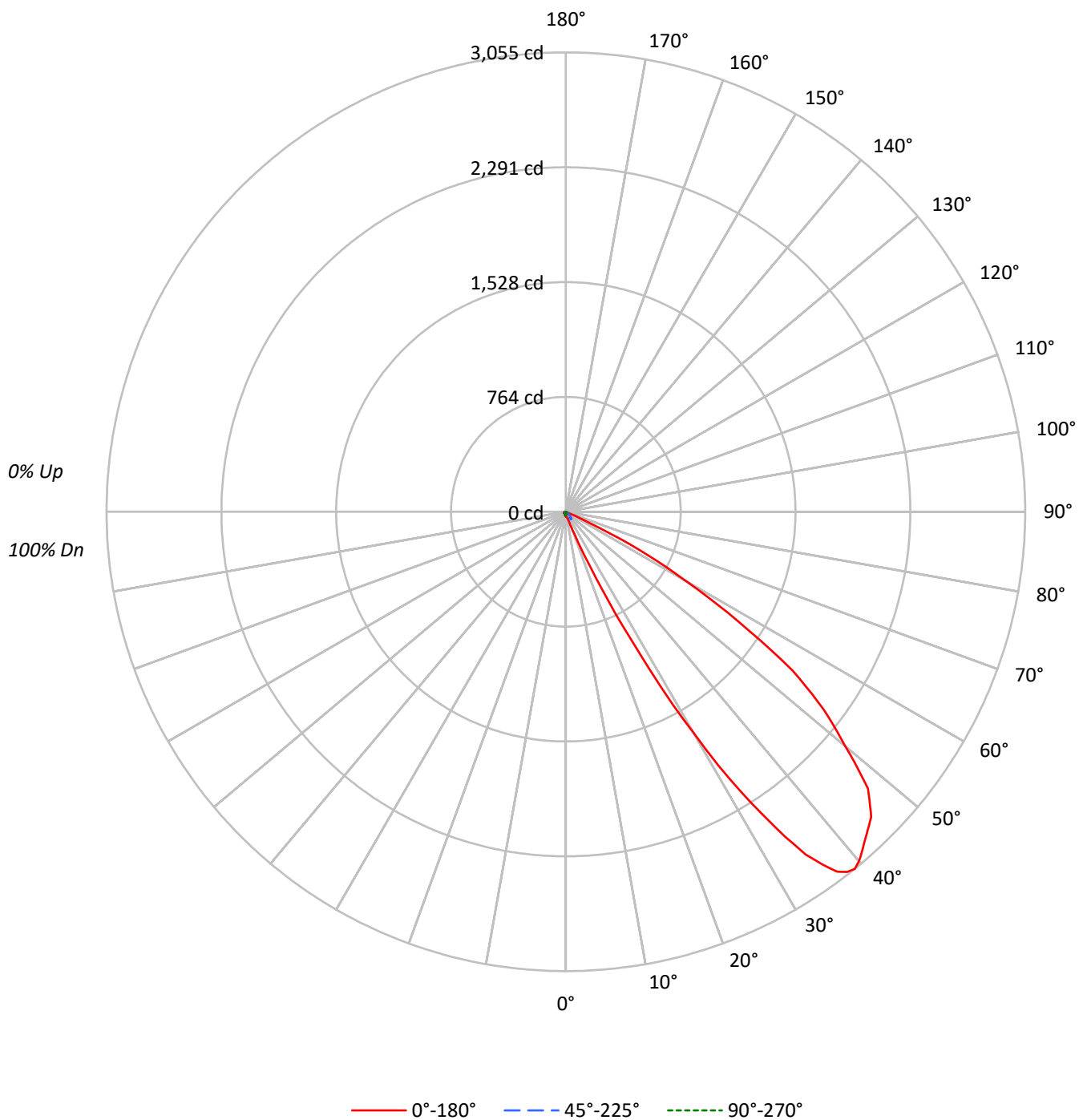
Lumens per Lamp: N/A
Luminaire Lumens: 794.0 lumens
Efficiency: N/A
Efficacy: 54.0 lumens/watt
Spacing Criteria (0/90/45): 4.07 / 0.66 / 1.44
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.7
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
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	108	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	60	52	45	58	51	45	56	50	44	54	49	44	42		
6	68	54	45	38	66	53	44	38	51	43	37	49	42	37	48	42	37	35		
7	62	48	38	32	60	47	38	32	45	37	31	44	36	31	42	36	31	29		
8	56	42	33	27	55	41	33	27	40	32	26	39	32	26	37	31	26	24		
9	52	37	29	23	50	37	28	23	36	28	22	34	27	22	33	27	22	20		
10	48	33	25	19	46	33	25	19	32	24	19	31	24	19	30	24	19	17		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	6754	6754	6754	6754	6754
5°	7220	7066	6626	6031	5899
10°	7882	6992	5812	5210	5054
15°	11532	6992	4858	4404	4563
20°	29029	7654	3757	3757	4224
25°	134790	9557	2903	3387	3895
30°	429129	13217	2203	3216	3899
35°	744640	16115	1794	3052	3935
40°	868427	16087	1345	3063	4008
45°	890635	11412	1458	3318	4342
50°	828254	6379	1126	3411	5015
55°	703937	3326	1262	3823	5620
60°	406546	877	1447	4122	6140
65°	82966	0	1712	4877	6953
70°	1282	449	2116	5578	8142
75°	1101	593	2288	5676	9658
80°	884	884	3410	6819	10986
85°	0	1761	6793	6793	13586

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 890635 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.8	0.4
10°-20°	8.0	1.0
20°-30°	45.8	5.8
30°-40°	213.9	26.9
40°-50°	302.4	38.1
50°-60°	186.1	23.4
60°-70°	28.3	3.6
70°-80°	4.5	0.6
80°-90°	2.3	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°	56.6	7.1
0°-40°	270.4	34.1
0°-60°	758.9	95.6
0°-90°	794.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	794.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	31	31	31	31	31	
5°	33	32	30	27	27	3
15°	51	31	21	19	20	18
25°	557	40	12	14	16	343
35°	2782	60	7	11	15	1669
45°	2872	37	5	11	14	2177
55°	1841	9	3	10	15	1567
65°	160	0	3	9	13	289
75°	1	1	3	7	11	1
85°	0	1	3	3	5	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	30.8	30.8	30.8	30.8	30.8	30.8	30.8	30.8	30.8	30.8	30.8
2.5°	31.4	31.4	32.1	32.1	31.4	32.1	32.1	32.1	30.8	30.1	28.8
5°	32.8	32.8	32.8	33.4	32.8	32.8	32.1	31.4	30.1	28.1	27.4
7.5°	34.1	34.1	33.4	34.1	33.4	33.4	32.1	30.8	28.8	26.8	25.4
10°	35.4	35.4	34.8	34.8	34.1	34.1	31.4	29.4	26.1	24.1	23.4
12.5°	39.5	39.5	38.8	38.1	36.8	36.1	30.8	27.4	23.4	21.4	20.7
15°	50.8	50.2	48.8	46.8	43.5	42.8	30.8	25.4	21.4	19.4	19.4
17.5°	69.6	68.9	66.9	61.5	55.5	53.5	30.8	22.7	18.7	17.4	17.4
20°	124.4	119.1	109.0	95.6	81.6	74.2	32.8	20.1	16.1	15.4	16.1
21°	162.5	157.2	144.5	122.4	97.6	89.6	34.1	19.4	15.4	14.7	16.1
22°	221.4	215.4	189.3	159.2	123.7	109.7	34.8	18.1	14.0	14.0	15.4
23°	309.0	299.0	254.8	206.7	154.5	134.4	36.1	17.4	13.4	14.0	14.7
24°	404.6	395.9	345.8	273.6	197.3	168.5	37.5	16.7	12.7	12.7	14.0
25°	557.1	547.1	458.1	345.1	250.1	202.7	39.5	15.4	12.0	12.0	14.0
26°	754.4	708.3	589.9	444.8	308.3	254.2	41.5	14.7	11.4	12.0	13.4
27°	941.7	903.6	770.5	570.5	381.2	312.3	44.1	14.0	10.7	11.4	13.4
28°	1187.8	1134.3	966.5	721.7	480.2	377.9	46.8	13.4	10.0	11.4	12.7
29°	1463.4	1388.5	1185.8	891.6	591.9	451.5	49.5	12.7	9.4	10.7	12.7
30°	1694.8	1624.6	1421.9	1092.9	720.3	548.4	52.2	12.0	8.7	10.7	12.7
31°	1966.4	1860.0	1614.6	1263.4	830.7	645.4	54.8	10.7	8.0	10.0	12.0
32°	2186.4	2112.2	1851.3	1456.0	975.8	752.4	56.9	10.0	8.0	10.0	12.0
33°	2399.1	2299.4	2047.3	1640.6	1106.9	862.1	58.9	9.4	7.4	9.4	12.0
34°	2602.4	2510.8	2232.6	1789.8	1230.7	966.5	60.2	8.0	7.4	9.4	11.4
35°	2781.7	2675.3	2395.8	1935.6	1357.7	1061.4	60.2	7.4	6.7	8.7	11.4
36°	2898.0	2821.8	2537.5	2079.4	1472.8	1151.7	60.2	6.7	6.0	8.7	10.7
37°	2997.7	2908.8	2651.3	2189.8	1557.7	1224.0	60.2	6.0	6.0	8.7	10.7
38°	3038.5	2962.3	2729.5	2287.4	1637.3	1297.5	59.5	5.4	5.4	8.0	10.7
39°	3054.6	2986.3	2788.4	2357.6	1696.2	1347.0	58.2	4.7	5.4	8.0	10.7
40°	3033.8	2982.3	2818.5	2403.1	1743.0	1383.1	56.2	4.0	4.7	8.0	10.7
42.5°	2948.2	2914.1	2811.8	2448.6	1783.1	1409.9	48.8	2.7	4.7	7.4	10.7
45°	2872.0	2834.5	2744.2	2401.1	1730.9	1357.1	36.8	1.3	4.7	7.4	10.7
47.5°	2724.2	2700.7	2629.8	2280.0	1616.6	1238.0	26.1	0.7	4.0	6.7	10.0
50°	2427.9	2405.8	2312.2	1979.7	1390.5	1046.7	18.7	0.7	3.3	6.7	10.0
52.5°	2162.3	2138.9	2004.5	1646.0	1068.1	767.2	12.0	0.7	3.3	6.7	10.0
55°	1841.3	1800.5	1623.9	1249.4	757.1	514.3	8.7	0.7	3.3	6.0	10.0
57.5°	1363.1	1303.6	1145.7	852.1	436.1	278.9	4.7	0.7	3.3	6.0	10.0
60°	927.0	891.6	717.0	449.5	185.9	117.7	2.0	0.7	3.3	6.0	9.4
62.5°	561.8	517.0	360.5	191.3	80.3	53.5	0.0	1.3	3.3	6.0	9.4
65°	159.9	141.8	94.3	43.5	22.7	17.4	0.0	1.3	3.3	6.0	9.4
67.5°	5.4	5.4	5.4	4.7	3.3	3.3	0.7	1.3	3.3	6.0	8.7
70°	2.0	2.0	2.0	1.3	1.3	0.7	0.7	1.3	3.3	5.4	8.7
72.5°	1.3	1.3	1.3	1.3	0.7	0.7	0.7	1.3	2.7	4.7	8.0
75°	1.3	1.3	1.3	0.7	0.7	0.7	0.7	2.0	2.7	4.7	6.7
77.5°	1.3	1.3	1.3	0.7	0.7	0.7	0.7	2.0	2.7	4.0	6.7
80°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	2.0	2.7	4.0	5.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
82.5°	0.7	0.7	0.7	0.0	0.0	0.0	0.7	2.0	2.7	2.7	4.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.7	2.0	2.7	2.0	2.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.7	2.0	2.0	2.0	1.3
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):

	157.5°	180°
0°	30.8	30.8
2.5°	28.8	28.8
5°	26.8	26.8
7.5°	24.7	24.7
10°	22.7	22.7
12.5°	21.4	21.4
15°	19.4	20.1
17.5°	18.1	18.7
20°	17.4	18.1
21°	17.4	18.1
22°	16.7	17.4
23°	16.7	17.4
24°	16.1	16.7
25°	15.4	16.1
26°	15.4	16.1
27°	15.4	16.1
28°	14.7	16.1
29°	14.7	15.4
30°	14.7	15.4
31°	14.0	15.4
32°	14.0	15.4
33°	14.0	14.7
34°	13.4	14.7
35°	13.4	14.7
36°	13.4	14.7
37°	13.4	14.0
38°	13.4	14.7
39°	13.4	14.0
40°	13.4	14.0
42.5°	13.4	14.0
45°	13.4	14.0
47.5°	13.4	14.7
50°	13.4	14.7
52.5°	13.4	14.7
55°	13.4	14.7
57.5°	13.4	14.0
60°	13.4	14.0
62.5°	12.7	14.0
65°	12.7	13.4
67.5°	12.7	13.4
70°	12.0	12.7
72.5°	11.4	12.0
75°	10.0	11.4
77.5°	9.4	10.0
80°	8.0	8.7

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CANDELA DISTRIBUTION (continued):

	157.5°	180°
82.5°	6.7	6.7
85°	4.7	5.4
87.5°	2.7	2.7
90°	0.0	0.0

(END OF REPORT)