

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: P1334983

Luminaire Tested: P3A02R309030D2WDE010 E3CA451MMS

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1334983
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: P3A02R309030D2WDE010 E3CA451MMS
Description: 3in Adjustable Dim to Warm LED luminaire with, R30 optic, 3000K CCT AND, 90CRI ,
E3CA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

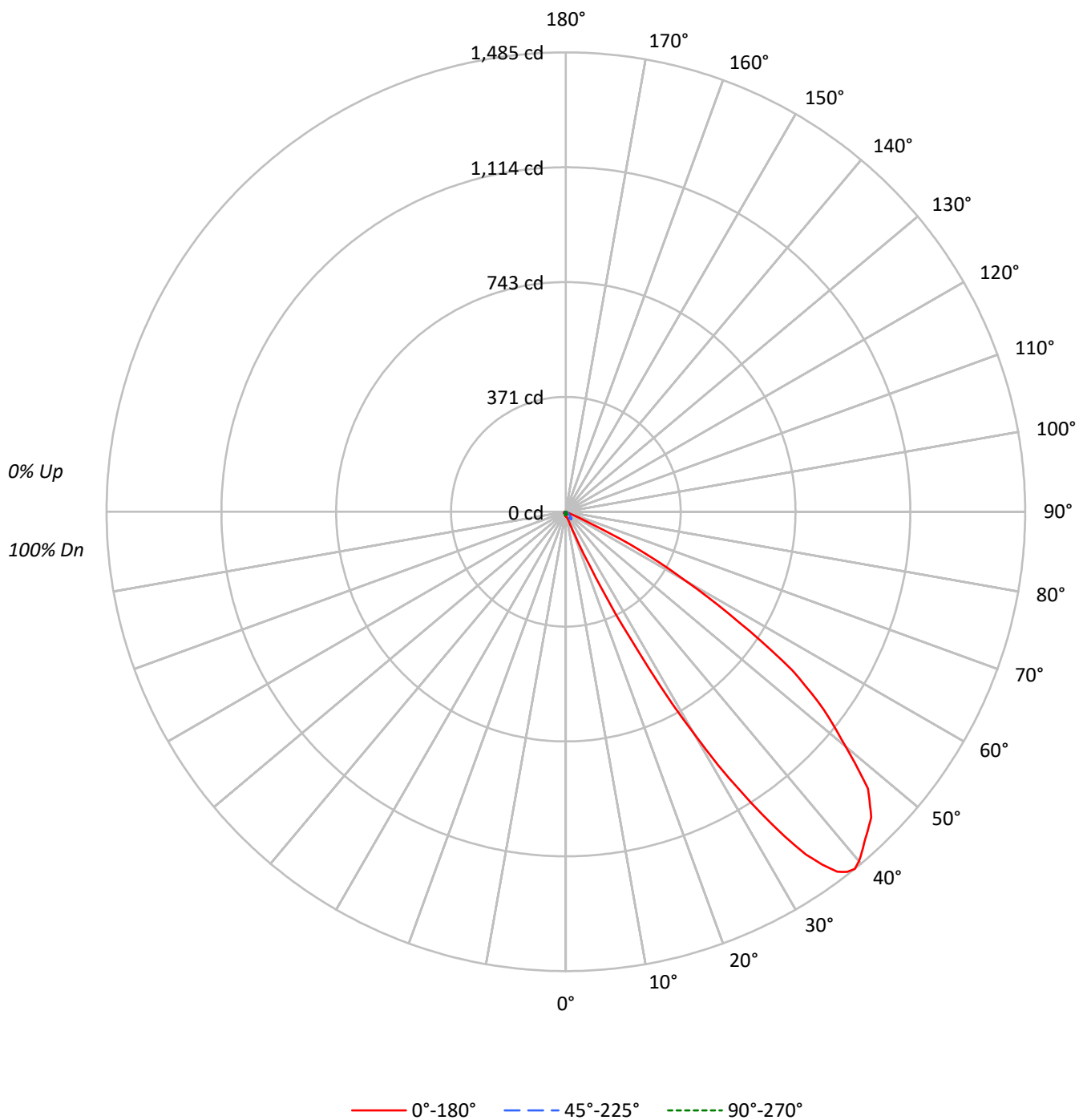
Lumens per Lamp: N/A
Luminaire Lumens: 386.0 lumens
Efficiency: N/A
Efficacy: 53.6 lumens/watt
Spacing Criteria (0/90/45): 4.07 / 0.66 / 1.44
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	3289	3289	3289	3289	3289
5°	3500	3434	3214	2928	2862
10°	3830	3407	2828	2538	2472
15°	5607	3405	2361	2134	2225
20°	14118	3710	1820	1820	2054
25°	65544	4645	1428	1645	1887
30°	208614	6431	1063	1570	1899
35°	362000	7843	883	1472	1927
40°	422191	7815	658	1489	1947
45°	432975	5551	713	1613	2109
50°	402648	3104	546	1672	2456
55°	342200	1606	612	1873	2753
60°	197660	439	702	2017	2982
65°	40316	0	830	2387	3373
70°	641	192	1026	2693	3975
75°	593	254	1101	2796	4660
80°	379	379	1642	3283	5304
85°	0	755	3271	3271	6542

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 432975 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.4	0.4
10°-20°	3.9	1.0
20°-30°	22.3	5.8
30°-40°	104.0	26.9
40°-50°	147.0	38.1
50°-60°	90.5	23.4
60°-70°	13.8	3.6
70°-80°	2.2	0.6
80°-90°	1.1	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°	27.5	7.1
0°-40°	131.5	34.1
0°-60°	369.0	95.6
0°-90°	386.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	386.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	15	15	15	15	15	
5°	16	16	15	13	13	2
15°	25	15	10	9	10	9
25°	271	19	6	7	8	167
35°	1352	29	3	6	7	812
45°	1396	18	2	5	7	1058
55°	895	4	2	5	7	762
65°	78	0	2	5	6	141
75°	1	0	1	3	6	1
85°	0	0	1	1	3	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°	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
2.5°	15.3	15.3	15.6	15.6	15.3	15.6	15.6	15.6	15.0	14.6	14.0
5°	15.9	15.9	15.9	16.3	15.9	15.9	15.6	15.3	14.6	13.7	13.3
7.5°	16.6	16.6	16.3	16.6	16.3	16.3	15.6	15.0	14.0	13.0	12.4
10°	17.2	17.2	16.9	16.9	16.6	16.6	15.3	14.3	12.7	11.7	11.4
12.5°	19.2	19.2	18.9	18.5	17.9	17.6	15.0	13.3	11.4	10.4	10.1
15°	24.7	24.4	23.7	22.8	21.1	20.8	15.0	12.4	10.4	9.4	9.4
17.5°	33.8	33.5	32.5	29.9	27.0	26.0	15.0	11.1	9.1	8.5	8.5
20°	60.5	57.9	53.0	46.5	39.7	36.1	15.9	9.8	7.8	7.5	7.8
21°	79.0	76.4	70.2	59.5	47.5	43.6	16.6	9.4	7.5	7.2	7.8
22°	107.6	104.7	92.0	77.4	60.2	53.3	16.9	8.8	6.8	6.8	7.5
23°	150.2	145.3	123.9	100.5	75.1	65.4	17.6	8.5	6.5	6.8	7.2
24°	196.7	192.5	168.1	133.0	95.9	81.9	18.2	8.1	6.2	6.2	6.8
25°	270.9	266.0	222.7	167.8	121.6	98.5	19.2	7.5	5.9	5.9	6.8
26°	366.8	344.3	286.8	216.2	149.9	123.6	20.2	7.2	5.5	5.9	6.5
27°	457.8	439.3	374.6	277.4	185.3	151.8	21.5	6.8	5.2	5.5	6.5
28°	577.5	551.5	469.8	350.8	233.5	183.7	22.8	6.5	4.9	5.5	6.2
29°	711.4	675.0	576.5	433.4	287.8	219.5	24.1	6.2	4.6	5.2	6.2
30°	823.9	789.8	691.3	531.3	350.2	266.6	25.4	5.9	4.2	5.2	6.2
31°	955.9	904.2	784.9	614.2	403.8	313.8	26.7	5.2	3.9	4.9	5.9
32°	1062.9	1026.8	900.0	707.9	474.4	365.8	27.6	4.9	3.9	4.9	5.9
33°	1166.3	1117.9	995.3	797.6	538.1	419.1	28.6	4.6	3.6	4.6	5.9
34°	1265.2	1220.6	1085.4	870.1	598.3	469.8	29.3	3.9	3.6	4.6	5.5
35°	1352.3	1300.6	1164.7	941.0	660.1	516.0	29.3	3.6	3.3	4.2	5.5
36°	1408.9	1371.8	1233.6	1010.9	716.0	559.9	29.3	3.3	2.9	4.2	5.2
37°	1457.3	1414.1	1288.9	1064.5	757.3	595.0	29.3	2.9	2.9	4.2	5.2
38°	1477.2	1440.1	1326.9	1112.0	796.0	630.8	28.9	2.6	2.6	3.9	5.2
39°	1485.0	1451.8	1355.6	1146.2	824.6	654.9	28.3	2.3	2.6	3.9	5.2
40°	1474.9	1449.8	1370.2	1168.3	847.3	672.4	27.3	2.0	2.3	3.9	5.2
42.5°	1433.3	1416.7	1366.9	1190.4	866.9	685.4	23.7	1.3	2.3	3.6	5.2
45°	1396.2	1378.0	1334.1	1167.3	841.5	659.7	17.9	0.7	2.3	3.6	5.2
47.5°	1324.3	1313.0	1278.5	1108.4	785.9	601.9	12.7	0.3	2.0	3.3	4.9
50°	1180.3	1169.6	1124.0	962.4	676.0	508.9	9.1	0.3	1.6	3.3	4.9
52.5°	1051.2	1039.8	974.5	800.2	519.3	372.9	5.9	0.3	1.6	3.3	4.9
55°	895.1	875.3	789.5	607.4	368.1	250.0	4.2	0.3	1.6	2.9	4.9
57.5°	662.7	633.7	557.0	414.2	212.0	135.6	2.3	0.3	1.6	2.9	4.9
60°	450.7	433.4	348.6	218.5	90.4	57.2	1.0	0.3	1.6	2.9	4.6
62.5°	273.1	251.3	175.3	93.0	39.0	26.0	0.0	0.7	1.6	2.9	4.6
65°	77.7	68.9	45.8	21.1	11.1	8.5	0.0	0.7	1.6	2.9	4.6
67.5°	2.6	2.6	2.6	2.3	1.6	1.6	0.3	0.7	1.6	2.9	4.2
70°	1.0	1.0	1.0	0.7	0.7	0.3	0.3	0.7	1.6	2.6	4.2
72.5°	0.7	0.7	0.7	0.7	0.3	0.3	0.3	0.7	1.3	2.3	3.9
75°	0.7	0.7	0.7	0.3	0.3	0.3	0.3	1.0	1.3	2.3	3.3
77.5°	0.7	0.7	0.7	0.3	0.3	0.3	0.3	1.0	1.3	2.0	3.3
80°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	1.0	1.3	2.0	2.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
82.5°	0.3	0.3	0.3	0.0	0.0	0.0	0.3	1.0	1.3	1.3	2.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.0	1.3	1.0	1.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.0	1.0	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):

	157.5°	180°
0°	15.0	15.0
2.5°	14.0	14.0
5°	13.0	13.0
7.5°	12.0	12.0
10°	11.1	11.1
12.5°	10.4	10.4
15°	9.4	9.8
17.5°	8.8	9.1
20°	8.5	8.8
21°	8.5	8.8
22°	8.1	8.5
23°	8.1	8.5
24°	7.8	8.1
25°	7.5	7.8
26°	7.5	7.8
27°	7.5	7.8
28°	7.2	7.8
29°	7.2	7.5
30°	7.2	7.5
31°	6.8	7.5
32°	6.8	7.5
33°	6.8	7.2
34°	6.5	7.2
35°	6.5	7.2
36°	6.5	7.2
37°	6.5	6.8
38°	6.5	7.2
39°	6.5	6.8
40°	6.5	6.8
42.5°	6.5	6.8
45°	6.5	6.8
47.5°	6.5	7.2
50°	6.5	7.2
52.5°	6.5	7.2
55°	6.5	7.2
57.5°	6.5	6.8
60°	6.5	6.8
62.5°	6.2	6.8
65°	6.2	6.5
67.5°	6.2	6.5
70°	5.9	6.2
72.5°	5.5	5.9
75°	4.9	5.5
77.5°	4.6	4.9
80°	3.9	4.2



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CANDELA DISTRIBUTION (continued):

	157.5°	180°
82.5°	3.3	3.3
85°	2.3	2.6
87.5°	1.3	1.3
90°	0.0	0.0

(END OF REPORT)