

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: P1335991

Luminaire Tested: P3A02R459030D2WDE010 E3CA451MMS

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1335991
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-84)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A02R459030D2WDE010 E3CA451MMS
Description: 3in Adjustable Dim to Warm LED luminaire with, R45 optic, 3000K CCT AND, 90CRI ,
E3CA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

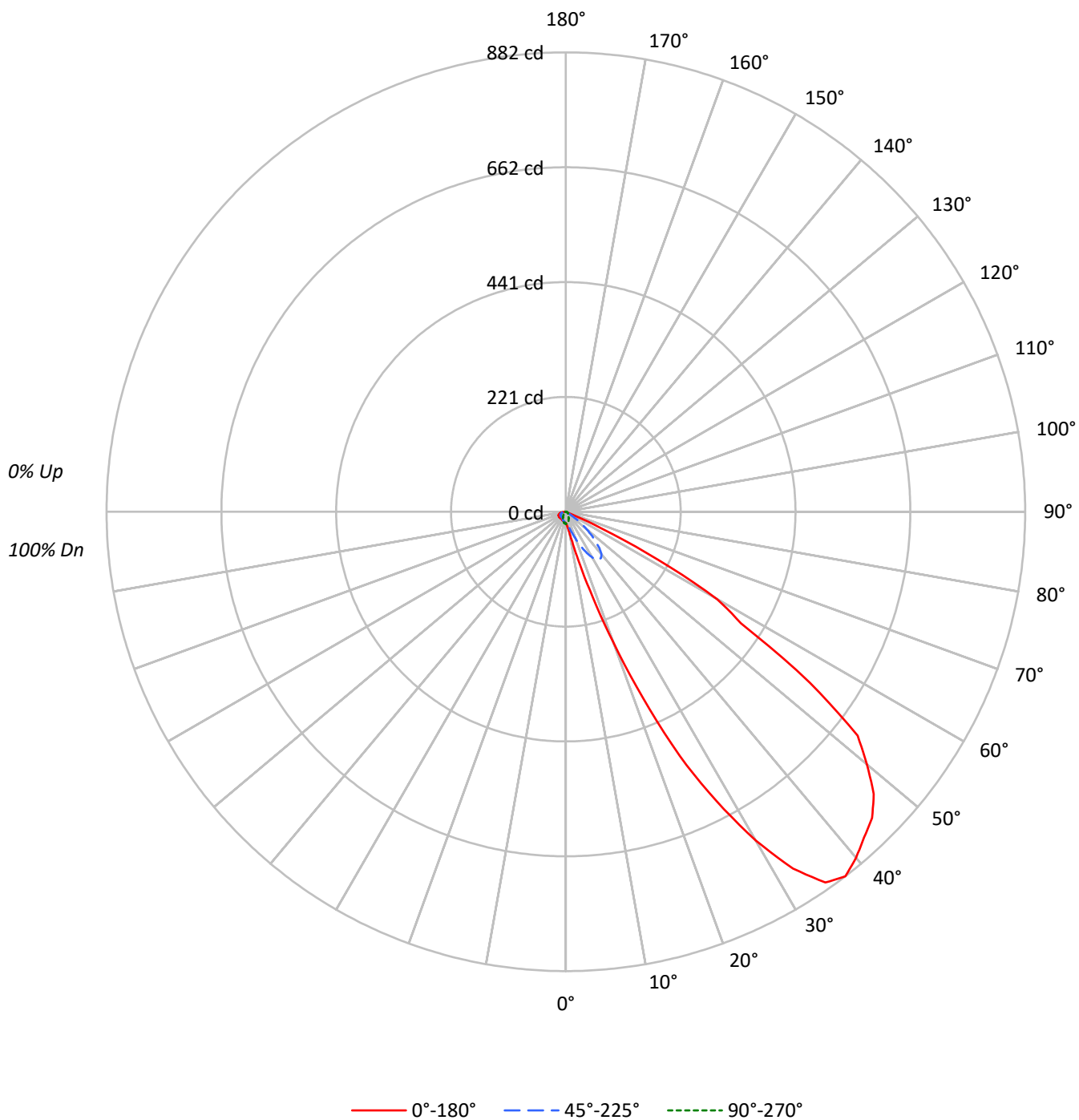
Lumens per Lamp: N/A
Luminaire Lumens: 394.0 lumens
Efficiency: N/A
Efficacy: 54.7 lumens/watt
Spacing Criteria (0/90/45): 3.81 / 0.82 / 1.83
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	107	104	100	97	99	97	94	96	93	91	92	90	88
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53
5	76	63	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38
7	63	49	40	34	61	48	40	33	47	39	33	45	38	33	44	37	33
8	58	44	35	29	56	43	35	29	42	34	29	40	33	28	39	33	28
9	53	39	31	25	52	39	30	25	38	30	25	36	29	25	35	29	24
10	49	36	27	22	48	35	27	22	34	27	21	33	26	21	32	26	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	5000	5000	5000	5000	5000
5°	5943	5525	4953	4578	4578
10°	9485	6457	4631	4342	4342
15°	23655	8649	4222	4064	4222
20°	62305	12904	3640	3874	4107
25°	125088	19138	3145	3629	4016
30°	184408	25624	2557	3545	4127
35°	232598	30062	2168	3480	4283
40°	248151	30371	1947	3635	4580
45°	257856	25336	1830	3938	4962
50°	257424	17671	1774	4230	5561
55°	218793	7837	1873	4741	6117
60°	147050	1579	1842	5263	7017
65°	39018	675	1868	5759	7939
70°	1026	833	1859	6283	8976
75°	847	847	1949	6608	10167
80°	884	1263	2020	6945	11491
85°	755	1761	3271	7296	11573

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 10°

Vertical Angle: 47.5°

Luminance: 264497 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.3	0.6
10°-20°	11.1	2.8
20°-30°	45.8	11.6
30°-40°	96.6	24.5
40°-50°	119.2	30.2
50°-60°	89.3	22.7
60°-70°	23.0	5.8
70°-80°	4.8	1.2
80°-90°	1.9	0.5
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°	59.2	15.0
0°-40°	155.8	39.5
0°-60°	364.3	92.5
0°-90°	394.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	394.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	23	23	23	23	23	
5°	27	25	22	21	21	3
15°	104	38	19	18	19	38
25°	517	79	13	15	17	241
35°	869	112	8	13	16	530
45°	832	82	6	13	16	636
55°	572	20	5	12	16	494
65°	75	1	4	11	15	108
75°	1	1	2	8	12	1
85°	0	1	1	3	5	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°	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8
2.5°	24.1	24.1	24.1	24.1	24.1	24.1	24.1	23.8	23.4	22.8	22.1
5°	27.0	26.7	26.7	26.7	26.4	26.0	26.0	25.1	23.8	22.5	21.5
7.5°	31.9	31.9	31.6	30.9	30.6	30.0	29.3	26.7	23.8	21.8	20.5
10°	42.6	42.0	41.0	40.4	38.7	36.5	34.8	29.0	23.4	20.8	19.9
12.5°	63.8	65.1	61.9	58.6	54.0	49.8	44.6	32.9	23.4	19.9	18.9
15°	104.2	106.5	100.3	93.8	82.7	72.3	62.5	38.1	22.8	18.6	17.6
17.5°	170.3	173.2	162.8	147.5	130.2	109.4	91.5	45.3	22.1	17.3	16.6
20°	267.0	266.6	246.4	227.2	194.0	163.4	129.9	55.3	21.2	15.6	15.6
22.5°	385.8	387.1	362.3	327.8	280.6	231.5	178.1	67.1	19.9	14.3	14.6
25°	517.0	505.9	476.6	434.6	374.4	306.3	236.0	79.1	18.6	13.0	13.7
27.5°	626.4	615.6	582.1	532.3	467.5	386.8	295.0	91.2	16.9	11.7	12.7
30°	728.3	714.6	674.2	617.9	540.7	453.5	350.3	101.2	15.0	10.1	11.7
32.5°	812.3	799.9	754.0	688.5	604.6	510.8	397.2	109.1	13.0	9.1	11.1
35°	868.9	856.2	813.9	741.9	650.5	552.5	435.3	112.3	11.4	8.1	10.7
37.5°	881.9	875.1	844.8	777.4	682.0	579.2	459.7	111.3	9.4	7.5	10.1
40°	866.9	868.6	854.3	798.3	699.0	590.6	469.8	106.1	7.8	6.8	9.8
42.5°	847.7	852.0	851.0	806.7	706.1	591.2	465.5	95.7	6.2	6.2	9.4
45°	831.5	835.7	841.6	803.1	701.2	582.7	452.2	81.7	4.6	5.9	9.4
47.5°	801.8	806.4	814.9	774.5	676.5	560.9	428.1	66.4	3.3	5.5	9.1
50°	754.6	756.9	754.6	709.4	629.0	525.8	389.0	51.8	2.3	5.2	9.1
52.5°	706.1	701.6	682.7	625.4	553.4	470.1	339.9	36.8	1.6	4.9	8.8
55°	572.3	565.2	551.2	516.0	475.0	401.7	274.8	20.5	1.6	4.9	8.5
57.5°	398.8	402.7	407.6	400.4	381.5	316.4	208.7	9.1	1.6	4.6	8.5
60°	335.3	332.1	332.4	327.8	296.6	230.8	143.6	3.6	1.6	4.2	8.1
62.5°	200.2	202.5	206.7	207.7	176.8	128.9	75.2	1.6	1.6	3.9	7.8
65°	75.2	78.8	69.0	59.9	47.5	34.8	17.6	1.3	2.0	3.6	7.2
67.5°	2.3	2.6	3.3	2.9	2.9	2.6	2.0	1.3	2.0	3.3	6.8
70°	1.6	1.6	1.6	1.6	1.6	1.3	1.3	1.3	1.6	2.9	6.2
72.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.6	2.6	5.5
75°	1.0	1.3	1.0	1.0	1.0	1.0	1.0	1.0	1.6	2.3	4.6
77.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.3	2.0	3.9
80°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.0	1.3	1.6	3.3
82.5°	0.7	0.7	0.7	0.3	0.7	0.7	0.7	0.7	1.3	1.3	2.6
85°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.7	1.0	1.3	1.6
87.5°	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.7	1.0	1.0	1.0
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°	22.8	22.8	22.8
2.5°	21.5	21.5	21.5
5°	20.8	20.8	20.8
7.5°	20.2	20.2	20.2
10°	19.5	19.5	19.5
12.5°	18.9	18.9	19.2
15°	17.9	18.6	18.6
17.5°	17.3	17.9	18.2
20°	16.6	17.3	17.6
22.5°	15.6	16.6	17.3
25°	15.0	16.3	16.6
27.5°	14.3	16.0	16.6
30°	14.0	15.6	16.3
32.5°	13.3	15.3	16.0
35°	13.0	15.3	16.0
37.5°	13.0	15.0	16.0
40°	12.7	15.0	16.0
42.5°	12.7	15.0	16.0
45°	12.7	15.0	16.0
47.5°	12.4	15.0	16.3
50°	12.4	15.3	16.3
52.5°	12.4	15.3	16.3
55°	12.4	15.3	16.0
57.5°	12.0	15.0	16.0
60°	12.0	15.0	16.0
62.5°	11.4	14.6	15.6
65°	11.1	14.3	15.3
67.5°	10.4	14.0	14.6
70°	9.8	13.0	14.0
72.5°	8.8	12.4	13.3
75°	7.8	11.4	12.0
77.5°	6.8	10.1	10.7
80°	5.5	8.5	9.1
82.5°	4.2	6.5	6.8
85°	2.9	4.2	4.6
87.5°	1.3	2.0	2.3
90°	0.0	0.0	0.0

(END OF REPORT)