

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: P1317899

Luminaire Tested: P3SQAS09R509835DE010 E3SQCA451MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1317899
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-79)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS09R509835DE010 E3SQCA451MW
Description: 3in Adjustable LED luminaire with, R50 optic, 3500K CCT AND, 98CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

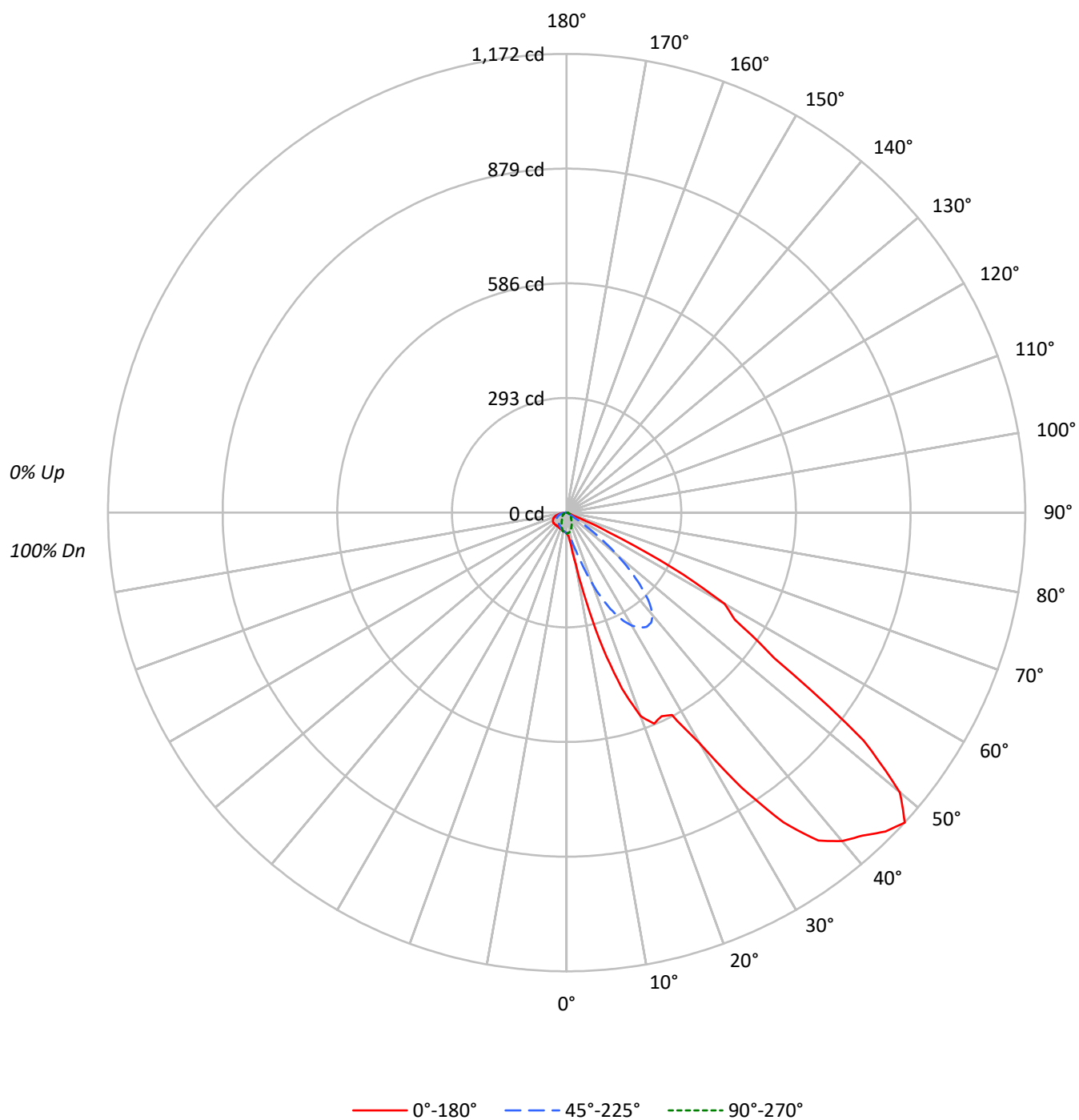
Lumens per Lamp: N/A
Luminaire Lumens: 661.0 lumens
Efficiency: N/A
Efficacy: 60.1 lumens/watt
Spacing Criteria (0/90/45): 3.58 / 0.82 / 1.91
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11
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	98	107	103	100	97	99	96	94	95	93	91	92	90	88
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	50	43	39
7	63	50	41	34	62	49	40	34	47	39	34	46	39	34	44	38	33
8	58	44	36	30	57	44	35	29	42	35	29	41	34	29	40	34	29
9	54	40	31	26	53	39	31	26	38	31	25	37	30	25	36	30	25
10	50	36	28	23	49	36	28	22	35	27	22	34	27	22	33	27	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	9042	9042	9042	9042	9042
5°	10753	10062	8990	8592	8488
10°	23172	12486	8587	8289	8394
15°	64134	20469	7738	7934	8237
20°	101388	35885	6690	7643	8064
25°	109037	52732	5758	7373	8133
30°	135348	66202	4992	7259	8392
35°	203097	74910	4331	7317	8872
40°	246314	77024	3844	7576	9375
45°	280605	66053	3751	8062	10278
50°	297832	45575	3831	8708	11467
55°	194569	18346	3783	9428	12671
60°	160477	3134	3720	10230	13950
65°	48413	1630	3505	10921	15363
70°	2014	1712	3474	11229	16667
75°	1930	1930	3394	11379	18232
80°	1686	1686	3372	11306	18646
85°	1186	2174	4545	11263	17982

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 47.5°

Luminance: 298794 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.5	0.8
10°-20°	31.3	4.7
20°-30°	80.5	12.2
30°-40°	144.5	21.9
40°-50°	193.1	29.2
50°-60°	147.0	22.2
60°-70°	44.6	6.8
70°-80°	10.7	1.6
80°-90°	3.9	0.6
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°	117.2	17.7
0°-40°	261.8	39.6
0°-60°	601.8	91.1
0°-90°	661.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	661.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	52	52	52	52	52	
5°	62	58	52	50	49	8
15°	360	115	43	44	46	106
25°	574	278	30	39	43	274
35°	966	356	21	35	42	593
45°	1152	271	15	33	42	881
55°	648	61	13	31	42	645
65°	119	4	9	27	38	164
75°	3	3	5	17	27	3
85°	1	1	2	6	9	1
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5
2.5°	56.0	56.0	56.0	56.0	56.0	56.0	55.4	55.4	55.4	54.2	53.1
5°	62.2	62.8	62.2	62.2	61.1	61.1	59.9	59.9	58.2	54.8	52.0
7.5°	81.6	81.1	80.5	78.2	76.5	72.5	70.8	67.9	62.8	54.8	50.8
10°	132.5	129.0	126.7	121.6	110.8	103.9	94.8	85.6	71.4	54.8	49.1
12.5°	230.1	229.5	222.7	205.5	190.1	169.0	146.7	124.5	87.9	53.7	46.8
15°	359.7	354.5	344.8	324.9	297.5	264.3	224.4	185.0	114.8	52.0	43.4
17.5°	470.4	464.2	456.7	436.8	405.4	363.7	315.7	261.5	151.3	49.7	40.0
20°	553.2	549.2	543.0	527.0	497.3	459.6	405.9	340.3	195.8	46.8	36.5
22.5°	583.5	582.9	584.1	578.4	563.5	533.8	482.4	413.9	239.8	43.4	33.1
25°	573.8	573.2	580.6	588.1	591.5	579.5	540.1	473.3	277.5	40.5	30.3
27.5°	582.9	581.2	577.8	578.9	588.6	595.5	577.2	519.0	310.0	36.5	27.4
30°	680.6	670.8	655.4	629.2	609.8	608.0	600.0	554.9	332.9	32.5	25.1
32.5°	833.0	821.0	793.0	744.5	698.2	662.9	637.7	585.2	348.8	28.5	22.3
35°	966.0	957.5	924.9	877.0	810.7	744.5	698.8	629.7	356.3	25.1	20.6
37.5°	1056.2	1052.8	1020.8	969.4	902.1	823.9	763.3	675.4	354.5	21.1	18.8
40°	1095.6	1085.3	1058.5	1015.1	947.2	877.0	813.0	704.5	342.6	17.1	17.1
42.5°	1119.0	1107.6	1078.5	1037.4	970.6	895.8	818.7	692.0	314.0	13.7	16.6
45°	1152.1	1140.2	1101.9	1057.9	990.6	903.8	796.4	647.4	271.2	10.3	15.4
47.5°	1172.1	1164.1	1135.6	1091.6	1010.0	892.4	745.1	605.8	223.8	8.0	14.8
50°	1111.6	1103.6	1082.5	1052.2	997.4	854.1	700.0	538.4	170.1	6.3	14.3
52.5°	956.9	963.7	967.7	976.3	936.3	768.5	632.6	484.7	114.8	5.1	13.1
55°	648.0	658.3	669.7	704.0	750.8	684.0	561.8	419.1	61.1	5.1	12.6
57.5°	509.3	505.8	502.4	500.1	536.7	564.1	493.9	335.1	26.3	5.1	11.4
60°	465.9	455.6	448.8	450.5	468.7	457.9	391.1	218.7	9.1	5.1	10.8
62.5°	305.4	313.4	328.9	355.1	342.6	294.0	227.2	86.8	4.6	5.1	9.7
65°	118.8	114.8	118.8	126.2	109.0	81.1	50.8	15.4	4.0	4.6	8.6
67.5°	16.0	14.3	10.8	6.9	6.3	5.7	4.6	4.0	4.0	4.6	8.0
70°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	3.4	3.4	4.0	6.9
72.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	4.0	5.7
75°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	3.4	5.1
77.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.9	4.0
80°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	2.3	3.4
82.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.7	1.7	2.3	2.9
85°	0.6	1.1	0.6	1.1	1.1	1.1	1.1	1.1	1.1	1.7	2.3
87.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.1	1.7	1.7
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):

	112.5°	135°	157.5°	180°
0°	52.5	52.5	52.5	52.5
2.5°	52.0	50.8	50.8	50.8
5°	50.8	49.7	49.7	49.1
7.5°	49.1	48.5	48.5	48.5
10°	48.0	47.4	48.0	48.0
12.5°	45.7	46.2	46.8	46.8
15°	43.4	44.5	45.7	46.2
17.5°	41.1	43.4	44.5	45.1
20°	38.8	41.7	43.4	44.0
22.5°	37.1	40.0	42.2	43.4
25°	34.8	38.8	41.7	42.8
27.5°	32.5	37.1	40.5	42.2
30°	30.8	36.5	40.5	42.2
32.5°	29.1	35.4	40.0	41.7
35°	28.0	34.8	40.0	42.2
37.5°	26.8	34.3	40.0	41.7
40°	26.3	33.7	40.0	41.7
42.5°	25.7	33.7	40.0	42.2
45°	24.6	33.1	40.0	42.2
47.5°	24.0	33.1	40.0	42.2
50°	23.4	32.5	40.0	42.8
52.5°	22.8	32.0	40.0	42.8
55°	21.7	31.4	39.4	42.2
57.5°	21.1	30.8	38.8	41.1
60°	20.0	29.7	37.7	40.5
62.5°	18.8	28.5	36.5	38.8
65°	17.1	26.8	34.8	37.7
67.5°	15.4	24.6	33.1	36.0
70°	13.7	22.3	30.8	33.1
72.5°	12.0	20.0	28.5	30.3
75°	10.3	17.1	25.1	27.4
77.5°	8.6	14.8	21.1	22.8
80°	6.3	11.4	17.1	18.8
82.5°	5.1	8.6	12.6	13.7
85°	3.4	5.7	8.0	9.1
87.5°	1.7	2.9	4.0	4.6
90°	0.0	0.0	0.0	0.0

(END OF REPORT)