

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: P1315099

Luminaire Tested: P3SQAS05R609740DE010 E3SQCA451MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1315099
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-81)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS05R609740DE010 E3SQCA451MW
Description: 3in Adjustable LED luminaire with, R60 optic, 4000K CCT AND, 97CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

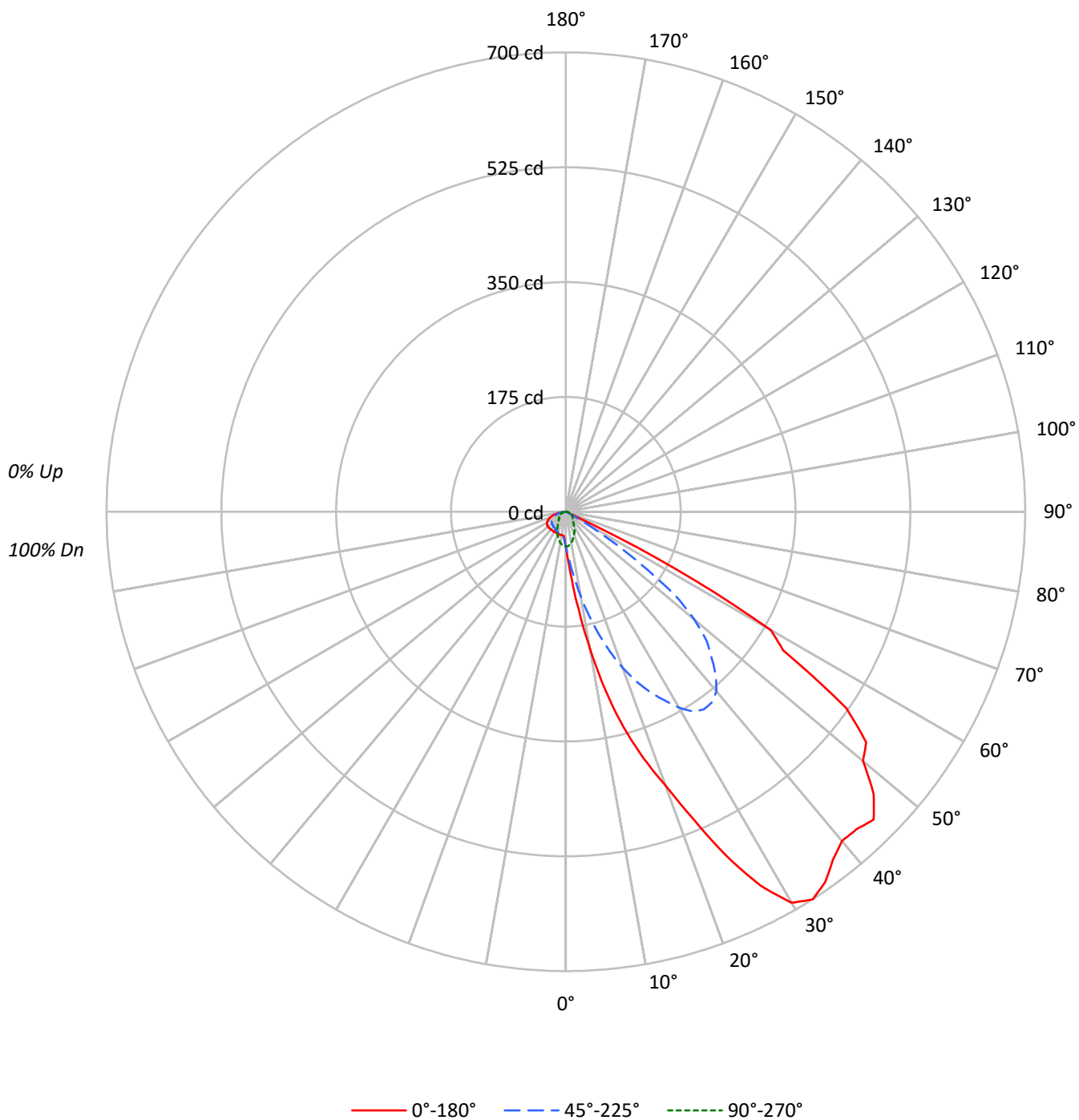
Lumens per Lamp: N/A
Luminaire Lumens: 533.0 lumens
Efficiency: N/A
Efficacy: 74.0 lumens/watt
Spacing Criteria (0/90/45): 3.38 / 0.84 / 2.07
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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			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	108	104	100	97	100	97	94	96	93	91	92	90	89	87		
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76	74		
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62		
4	84	72	64	58	82	71	63	57	69	62	56	66	60	56	64	59	55	53		
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45		
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39		
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33		
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29		
9	55	42	33	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25		
10	52	38	30	25	50	38	30	25	37	29	24	36	29	24	35	29	24	22		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	9093	9093	9093	9093	9093
5°	17928	13986	8955	6777	6448
10°	37022	22787	8394	6191	6278
15°	60550	34215	7524	6223	6401
20°	81246	46350	6745	6213	6488
25°	109930	57540	5891	6176	6727
30°	136820	68509	4912	6165	7040
35°	144859	77223	4184	6307	7338
40°	147168	80283	3822	6542	7959
45°	161553	76478	3653	6966	8622
50°	158374	68537	3644	7395	9485
55°	156526	42037	3633	7987	10479
60°	124173	10023	3823	8508	11332
65°	7906	1793	3749	8680	12225
70°	1712	1964	3676	9013	12941
75°	1597	1930	3194	8717	13242
80°	1488	1884	3372	8629	12497
85°	988	1976	3754	7707	12449

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°

Vertical Angle: 52.5°

Luminance: 170508 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.6	1.2
10°-20°	33.2	6.2
20°-30°	77.1	14.5
30°-40°	119.8	22.5
40°-50°	136.5	25.6
50°-60°	115.0	21.6
60°-70°	33.4	6.3
70°-80°	8.5	1.6
80°-90°	2.9	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°	116.9	21.9
0°-40°	236.7	44.4
0°-60°	488.2	91.6
0°-90°	533.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	533.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	53	53	53	53	53	
5°	104	81	52	39	37	13
15°	340	192	42	35	36	98
25°	578	303	31	32	35	269
35°	689	367	20	30	35	428
45°	663	314	15	29	35	499
55°	521	140	12	27	35	439
65°	19	4	9	21	30	96
75°	2	3	5	13	20	3
85°	0	1	2	4	6	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°	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8
2.5°	71.2	70.7	70.7	70.3	69.8	69.3	67.8	67.3	64.4	58.6	52.8
5°	103.7	103.2	101.7	101.3	98.8	95.4	92.1	88.7	80.9	64.4	51.8
7.5°	150.2	151.2	150.2	144.9	141.5	136.1	126.0	118.7	103.2	70.3	49.9
10°	211.7	211.7	210.3	202.0	194.8	184.6	171.5	158.9	130.3	75.6	48.0
12.5°	278.6	280.0	272.8	266.0	252.9	240.3	222.4	203.5	161.3	79.9	45.5
15°	339.6	338.7	331.4	322.7	309.1	291.7	272.8	248.6	191.9	82.9	42.2
17.5°	393.9	392.0	385.7	376.0	359.5	340.1	315.9	289.7	223.4	85.3	39.7
20°	443.3	436.5	429.3	419.1	403.1	382.8	357.6	328.0	252.9	85.3	36.8
22.5°	505.8	499.0	488.9	473.4	452.0	426.8	397.3	363.9	279.1	83.3	33.9
25°	578.5	573.2	555.7	535.9	508.2	478.2	443.8	398.7	302.8	80.4	31.0
27.5°	642.0	636.2	618.7	589.6	556.2	520.4	484.0	438.0	323.6	75.1	27.6
30°	688.0	680.7	667.2	639.5	598.8	555.2	512.1	468.0	344.5	68.8	24.7
32.5°	700.1	699.1	689.0	668.6	632.3	584.3	533.0	485.0	361.0	60.6	22.3
35°	689.0	690.4	688.5	678.3	651.7	604.7	546.5	494.2	367.3	52.3	19.9
37.5°	668.6	670.6	673.9	675.4	658.4	616.8	554.3	498.1	365.8	44.1	18.4
40°	654.6	653.6	653.6	663.3	659.9	622.1	555.2	495.2	357.1	35.4	17.0
42.5°	656.0	645.4	638.1	653.6	658.4	619.7	548.9	487.4	338.2	27.1	15.5
45°	663.3	640.5	627.9	647.8	655.5	611.4	537.3	475.8	314.0	18.9	15.0
47.5°	636.2	621.1	619.2	647.3	650.2	597.4	519.4	457.4	290.7	13.1	14.1
50°	591.1	588.7	598.8	627.9	628.4	574.1	499.0	423.9	255.8	9.2	13.6
52.5°	577.0	578.5	587.7	602.7	588.7	534.9	462.2	395.8	211.7	7.3	13.1
55°	521.3	523.7	532.5	541.7	531.5	486.9	417.6	361.9	140.0	6.8	12.1
57.5°	392.4	398.7	414.7	423.0	423.9	396.8	378.4	312.0	79.0	6.8	11.6
60°	360.5	352.2	345.0	328.0	312.5	309.1	311.1	234.0	29.1	6.3	11.1
62.5°	188.5	184.6	195.7	203.0	204.9	215.6	201.6	123.5	6.3	6.3	10.2
65°	19.4	19.4	23.7	31.5	52.3	69.8	66.4	35.9	4.4	5.8	9.2
67.5°	5.8	5.8	5.8	6.8	8.7	8.7	7.3	5.3	4.4	5.3	8.2
70°	3.4	3.4	3.4	3.4	3.4	3.4	3.9	3.4	3.9	4.8	7.3
72.5°	2.9	2.9	2.9	2.9	3.4	3.4	3.4	3.4	3.4	4.4	6.3
75°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.9	2.9	3.4	4.8
77.5°	1.9	1.9	1.9	1.9	1.9	1.9	2.4	2.4	2.4	2.9	3.9
80°	1.5	1.5	1.5	1.5	1.5	1.9	1.9	1.9	1.9	2.4	3.4
82.5°	1.0	1.0	1.0	1.0	1.5	1.5	1.5	1.5	1.5	1.9	2.4
85°	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.5	1.9
87.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.0	1.5
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°	52.8	52.8	52.8	52.8
2.5°	48.0	44.6	42.6	41.7
5°	43.6	39.2	37.8	37.3
7.5°	39.7	36.8	36.3	36.3
10°	37.3	35.4	35.9	35.9
12.5°	35.9	35.4	35.9	36.3
15°	34.4	34.9	35.9	35.9
17.5°	33.4	34.4	35.4	35.9
20°	32.0	33.9	35.4	35.4
22.5°	31.0	33.4	34.9	35.4
25°	30.0	32.5	34.4	35.4
27.5°	28.6	32.0	34.4	34.9
30°	27.1	31.0	33.9	35.4
32.5°	25.7	30.5	33.9	34.9
35°	24.7	30.0	33.9	34.9
37.5°	23.7	29.6	33.9	35.4
40°	23.3	29.1	33.4	35.4
42.5°	22.3	29.1	33.4	35.4
45°	21.8	28.6	33.4	35.4
47.5°	21.3	28.1	33.4	35.4
50°	20.3	27.6	32.9	35.4
52.5°	19.9	27.1	32.9	35.4
55°	18.9	26.6	32.5	34.9
57.5°	18.4	25.7	32.0	33.9
60°	17.4	24.7	31.0	32.9
62.5°	16.0	23.3	29.6	32.0
65°	14.5	21.3	28.1	30.0
67.5°	13.1	19.9	26.2	28.1
70°	11.6	17.9	23.7	25.7
72.5°	10.2	15.5	21.3	22.8
75°	8.7	13.1	17.9	19.9
77.5°	6.8	10.7	15.0	16.5
80°	5.3	8.7	11.6	12.6
82.5°	4.4	6.3	8.7	9.2
85°	2.9	3.9	5.3	6.3
87.5°	1.5	1.9	2.4	2.9
90°	0.0	0.0	0.0	0.0

(END OF REPORT)