

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: P1315081

Luminaire Tested: P3SQAS05R509740DE010 E3SQCA451MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1315081
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: P3SQAS05R509740DE010 E3SQCA451MW
Description: 3in Adjustable LED luminaire with, R50 optic, 4000K CCT AND, 97CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

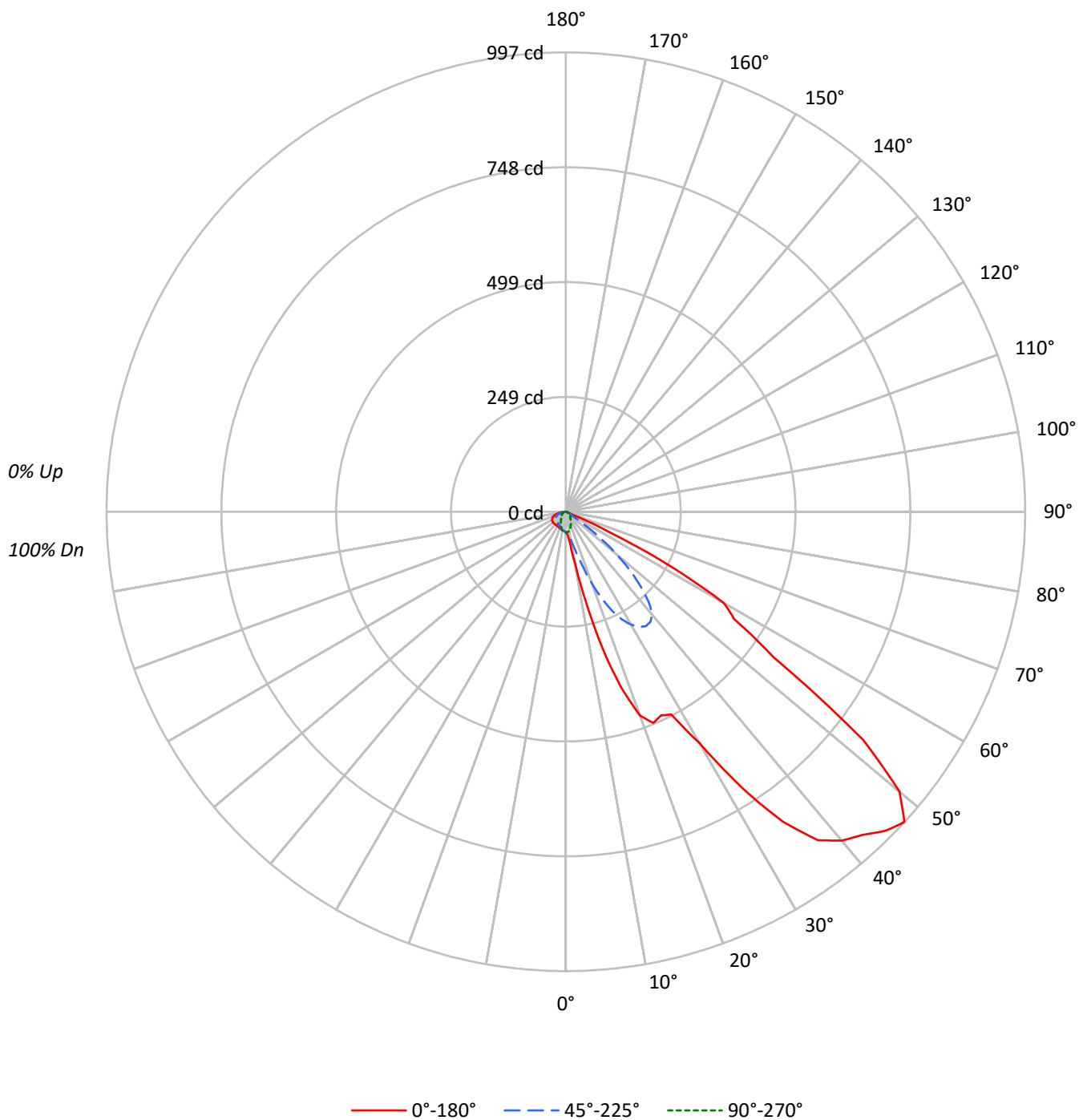
Lumens per Lamp: N/A
Luminaire Lumens: 562.0 lumens
Efficiency: N/A
Efficacy: 78.1 lumens/watt
Spacing Criteria (0/90/45): 3.58 / 0.83 / 1.91
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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
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	102	102	100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	88	88	86
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	75	75	73
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	63	63	61
4	83	71	63	56	81	70	62	55	67	60	55	65	59	54	63	58	53	53	53	51
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	45	45	43
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	50	43	39	39	39	37
7	63	50	41	34	62	49	40	34	47	39	34	46	39	34	44	38	33	33	33	31
8	58	44	36	30	57	44	35	29	42	35	29	41	34	29	40	34	29	29	29	27
9	54	40	31	26	53	39	31	26	38	31	25	37	30	25	36	30	25	25	25	23
10	50	36	28	23	49	36	28	22	35	27	22	34	27	22	33	27	22	22	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	7698	7698	7698	7698	7698
5°	9145	8558	7641	7296	7209
10°	19691	10615	7292	7048	7135
15°	54524	17402	6579	6757	7007
20°	86213	30515	5700	6488	6855
25°	92695	44827	4884	6271	6917
30°	115064	56279	4256	6185	7139
35°	172674	63683	3679	6223	7548
40°	209420	65490	3282	6430	7959
45°	238591	56165	3191	6868	8744
50°	253221	38770	3242	7422	9753
55°	165444	15584	3213	8017	10779
60°	136435	2687	3169	8680	11883
65°	41159	1386	2975	9291	13040
70°	1712	1460	2921	9517	14200
75°	1597	1597	2928	9715	15504
80°	1488	1488	2876	9620	15869
85°	988	1976	3754	9683	15413

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 47.5°

Luminance: 254055 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.7	0.8
10°-20°	26.6	4.7
20°-30°	68.4	12.2
30°-40°	122.9	21.9
40°-50°	164.1	29.2
50°-60°	125.0	22.2
60°-70°	38.0	6.8
70°-80°	9.1	1.6
80°-90°	3.3	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°	99.7	17.7
0°-40°	222.6	39.6
0°-60°	511.7	91.0
0°-90°	562.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	562.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	45	45	45	45	45	
5°	53	50	44	42	42	7
15°	306	98	37	38	39	90
25°	488	236	26	33	36	233
35°	821	303	18	30	36	504
45°	980	231	13	28	36	749
55°	551	52	11	27	36	548
65°	101	3	7	23	32	140
75°	2	2	4	15	23	3
85°	0	1	2	5	8	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°	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7
2.5°	47.6	47.6	47.6	47.6	47.6	47.6	47.1	47.1	47.1	46.1	45.1
5°	52.9	53.4	52.9	52.9	51.9	51.9	51.0	51.0	49.5	46.6	44.2
7.5°	69.4	68.9	68.4	66.5	65.0	61.6	60.2	57.8	53.4	46.6	43.2
10°	112.6	109.7	107.8	103.4	94.2	88.3	80.6	72.8	60.7	46.6	41.7
12.5°	195.6	195.1	189.3	174.8	161.6	143.7	124.8	105.8	74.8	45.6	39.8
15°	305.8	301.4	293.2	276.2	252.9	224.8	190.8	157.3	97.6	44.2	36.9
17.5°	400.0	394.6	388.3	371.3	344.6	309.2	268.4	222.3	128.6	42.2	34.0
20°	470.4	467.0	461.6	448.0	422.8	390.8	345.1	289.3	166.5	39.8	31.1
22.5°	496.1	495.6	496.6	491.7	479.1	453.9	410.2	351.9	203.9	36.9	28.2
25°	487.8	487.4	493.7	500.0	502.9	492.7	459.2	402.4	235.9	34.5	25.7
27.5°	495.6	494.2	491.2	492.2	500.5	506.3	490.8	441.2	263.6	31.1	23.3
30°	578.6	570.4	557.3	534.9	518.4	517.0	510.2	471.8	283.0	27.7	21.4
32.5°	708.2	698.0	674.3	633.0	593.7	563.6	542.2	497.6	296.6	24.3	18.9
35°	821.3	814.1	786.4	745.6	689.3	633.0	594.2	535.4	302.9	21.4	17.5
37.5°	898.0	895.1	867.9	824.2	767.0	700.5	649.0	574.3	301.4	18.0	16.0
40°	931.5	922.8	900.0	863.1	805.3	745.6	691.2	599.0	291.3	14.6	14.6
42.5°	951.4	941.7	917.0	882.0	825.2	761.6	696.1	588.3	267.0	11.7	14.1
45°	979.6	969.4	936.9	899.5	842.2	768.4	677.2	550.5	230.6	8.7	13.1
47.5°	996.6	989.8	965.5	928.1	858.7	758.7	633.5	515.0	190.3	6.8	12.6
50°	945.1	938.3	920.4	894.6	848.0	726.2	595.1	457.8	144.7	5.3	12.1
52.5°	813.6	819.4	822.8	830.1	796.1	653.4	537.8	412.1	97.6	4.4	11.2
55°	551.0	559.7	569.4	598.5	638.3	581.5	477.7	356.3	51.9	4.4	10.7
57.5°	433.0	430.1	427.2	425.2	456.3	479.6	419.9	284.9	22.3	4.4	9.7
60°	396.1	387.4	381.5	383.0	398.5	389.3	332.5	185.9	7.8	4.4	9.2
62.5°	259.7	266.5	279.6	301.9	291.3	250.0	193.2	73.8	3.9	4.4	8.3
65°	101.0	97.6	101.0	107.3	92.7	68.9	43.2	13.1	3.4	3.9	7.3
67.5°	13.6	12.1	9.2	5.8	5.3	4.9	3.9	3.4	3.4	3.9	6.8
70°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	2.9	2.9	3.4	5.8
72.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	3.4	4.9
75°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.9	4.4
77.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.4	3.4
80°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.9	2.9
82.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.5	1.5	1.9	2.4
85°	0.5	1.0	0.5	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	1.5	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°	44.7	44.7	44.7	44.7
2.5°	44.2	43.2	43.2	43.2
5°	43.2	42.2	42.2	41.7
7.5°	41.7	41.3	41.3	41.3
10°	40.8	40.3	40.8	40.8
12.5°	38.8	39.3	39.8	39.8
15°	36.9	37.9	38.8	39.3
17.5°	35.0	36.9	37.9	38.3
20°	33.0	35.4	36.9	37.4
22.5°	31.6	34.0	35.9	36.9
25°	29.6	33.0	35.4	36.4
27.5°	27.7	31.6	34.5	35.9
30°	26.2	31.1	34.5	35.9
32.5°	24.8	30.1	34.0	35.4
35°	23.8	29.6	34.0	35.9
37.5°	22.8	29.1	34.0	35.4
40°	22.3	28.6	34.0	35.4
42.5°	21.8	28.6	34.0	35.9
45°	20.9	28.2	34.0	35.9
47.5°	20.4	28.2	34.0	35.9
50°	19.9	27.7	34.0	36.4
52.5°	19.4	27.2	34.0	36.4
55°	18.4	26.7	33.5	35.9
57.5°	18.0	26.2	33.0	35.0
60°	17.0	25.2	32.0	34.5
62.5°	16.0	24.3	31.1	33.0
65°	14.6	22.8	29.6	32.0
67.5°	13.1	20.9	28.2	30.6
70°	11.7	18.9	26.2	28.2
72.5°	10.2	17.0	24.3	25.7
75°	8.7	14.6	21.4	23.3
77.5°	7.3	12.6	18.0	19.4
80°	5.3	9.7	14.6	16.0
82.5°	4.4	7.3	10.7	11.7
85°	2.9	4.9	6.8	7.8
87.5°	1.5	2.4	3.4	3.9
90°	0.0	0.0	0.0	0.0

(END OF REPORT)