

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: P1307734

Luminaire Tested: P3SQAS05R509030DE010 E3SQCA451MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1307734
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: P3SQAS05R509030DE010 E3SQCA451MW
Description: 3in Adjustable LED luminaire with, R50 optic, 3000K CCT AND, 90CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

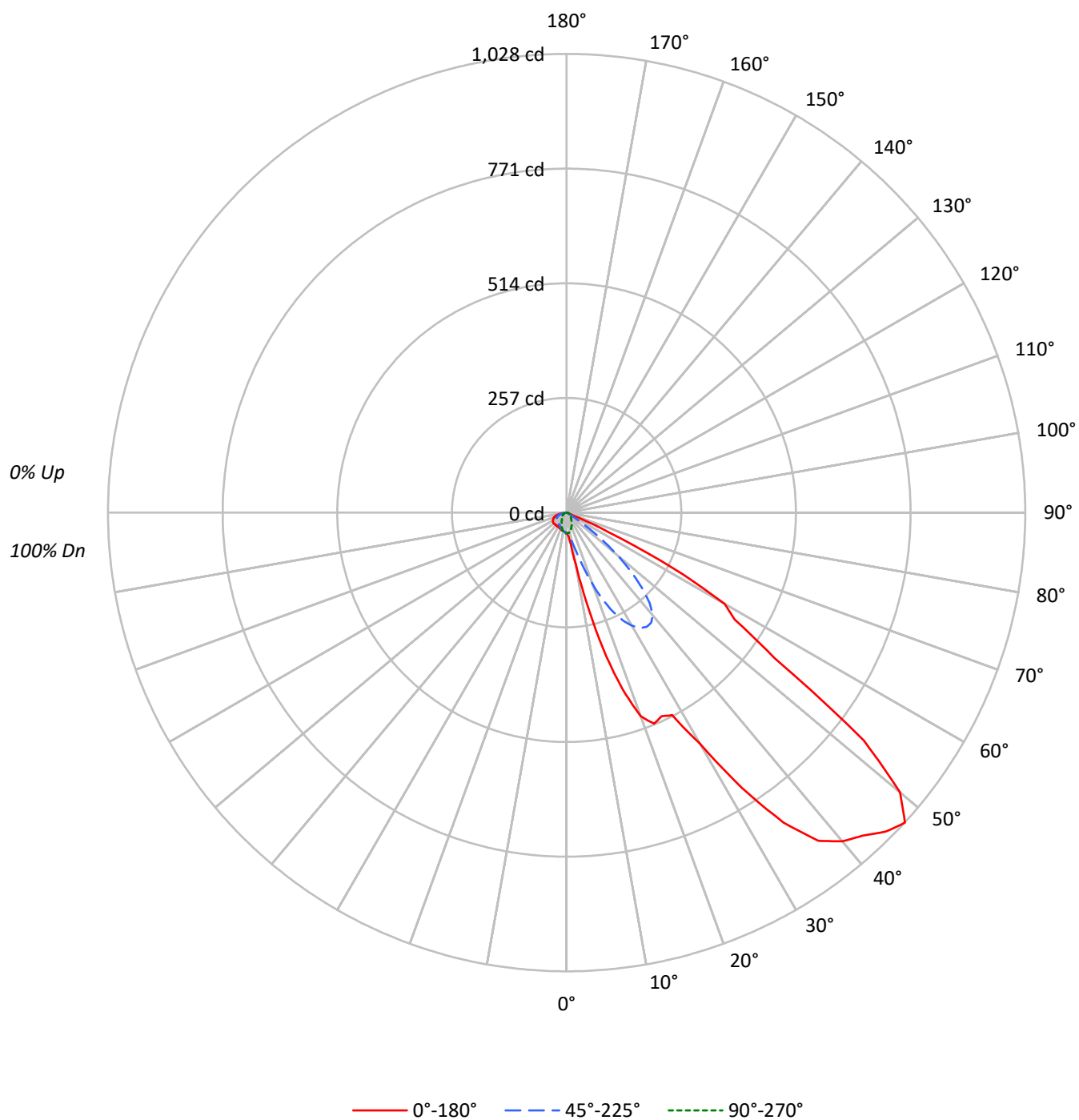
Lumens per Lamp: N/A
Luminaire Lumens: 580.0 lumens
Efficiency: N/A
Efficacy: 80.6 lumens/watt
Spacing Criteria (0/90/45): 3.58 / 0.83 / 1.91
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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
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°	7939	7939	7939	7939	7939
5°	9439	8834	7883	7538	7451
10°	20321	10947	7537	7275	7362
15°	56271	17955	6793	6971	7239
20°	88962	31487	5883	6708	7074
25°	95678	46271	5055	6480	7145
30°	118763	58089	4375	6384	7378
35°	178204	65723	3784	6433	7800
40°	216143	67581	3372	6655	8228
45°	246239	57967	3288	7088	9036
50°	261340	40002	3349	7663	10074
55°	170728	16094	3303	8287	11140
60°	140809	2756	3272	8990	12262
65°	42463	1426	3056	9577	13489
70°	1762	1511	3021	9819	14653
75°	1664	1664	2994	9981	15970
80°	1488	1488	2975	9918	16365
85°	988	1976	3952	9880	15808

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 47.5°

Luminance: 262187 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.8	0.8
10°-20°	27.5	4.7
20°-30°	70.6	12.2
30°-40°	126.8	21.9
40°-50°	169.4	29.2
50°-60°	129.0	22.2
60°-70°	39.2	6.8
70°-80°	9.3	1.6
80°-90°	3.4	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°	102.9	17.7
0°-40°	229.7	39.6
0°-60°	528.1	91.1
0°-90°	580.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	580.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	46	46	46	46	46	
5°	55	51	46	44	43	7
15°	316	101	38	39	41	93
25°	504	244	27	34	38	240
35°	848	313	18	31	37	520
45°	1011	238	14	29	37	773
55°	569	54	11	28	37	566
65°	104	4	8	24	33	144
75°	2	2	4	15	24	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°	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1
2.5°	49.1	49.1	49.1	49.1	49.1	49.1	48.6	48.6	48.6	47.6	46.6
5°	54.6	55.1	54.6	54.6	53.6	53.6	52.6	52.6	51.1	48.1	45.6
7.5°	71.6	71.1	70.6	68.6	67.1	63.6	62.1	59.6	55.1	48.1	44.6
10°	116.2	113.2	111.2	106.7	97.2	91.2	83.2	75.1	62.6	48.1	43.1
12.5°	201.9	201.4	195.4	180.3	166.8	148.3	128.7	109.2	77.1	47.1	41.1
15°	315.6	311.1	302.6	285.1	261.0	231.9	196.9	162.3	100.7	45.6	38.1
17.5°	412.8	407.3	400.8	383.2	355.7	319.1	277.0	229.4	132.8	43.6	35.1
20°	485.4	481.9	476.4	462.4	436.3	403.3	356.2	298.6	171.8	41.1	32.1
22.5°	512.0	511.5	512.5	507.5	494.5	468.4	423.3	363.2	210.4	38.1	29.1
25°	503.5	503.0	509.5	516.0	519.0	508.5	473.9	415.3	243.5	35.6	26.6
27.5°	511.5	510.0	507.0	508.0	516.5	522.5	506.5	455.4	272.0	32.1	24.0
30°	597.2	588.6	575.1	552.1	535.0	533.5	526.5	486.9	292.1	28.6	22.0
32.5°	730.9	720.4	695.8	653.3	612.7	581.6	559.6	513.5	306.1	25.0	19.5
35°	847.6	840.1	811.6	769.5	711.4	653.3	613.2	552.6	312.6	22.0	18.0
37.5°	926.8	923.8	895.7	850.6	791.5	722.9	669.8	592.6	311.1	18.5	16.5
40°	961.4	952.3	928.8	890.7	831.1	769.5	713.4	618.2	300.6	15.0	15.0
42.5°	981.9	971.9	946.3	910.3	851.6	786.0	718.4	607.2	275.5	12.0	14.5
45°	1011.0	1000.4	966.9	928.3	869.2	793.0	698.9	568.1	238.0	9.0	13.5
47.5°	1028.5	1021.5	996.4	957.9	886.2	783.0	653.8	531.5	196.4	7.0	13.0
50°	975.4	968.4	949.8	923.3	875.2	749.4	614.2	472.4	149.3	5.5	12.5
52.5°	839.6	845.6	849.1	856.7	821.6	674.3	555.1	425.3	100.7	4.5	11.5
55°	568.6	577.6	587.6	617.7	658.8	600.2	493.0	367.7	53.6	4.5	11.0
57.5°	446.9	443.9	440.9	438.8	470.9	495.0	433.3	294.1	23.0	4.5	10.0
60°	408.8	399.8	393.8	395.3	411.3	401.8	343.2	191.9	8.0	4.5	9.5
62.5°	268.0	275.0	288.6	311.6	300.6	258.0	199.4	76.1	4.0	4.5	8.5
65°	104.2	100.7	104.2	110.7	95.7	71.1	44.6	13.5	3.5	4.0	7.5
67.5°	14.0	12.5	9.5	6.0	5.5	5.0	4.0	3.5	3.5	4.0	7.0
70°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.0	3.0	3.5	6.0
72.5°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.5	5.0
75°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3.0	4.5
77.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.5	3.5
80°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.0	3.0
82.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.5	1.5	2.0	2.5
85°	0.5	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.5	2.0
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°	46.1	46.1	46.1	46.1
2.5°	45.6	44.6	44.6	44.6
5°	44.6	43.6	43.6	43.1
7.5°	43.1	42.6	42.6	42.6
10°	42.1	41.6	42.1	42.1
12.5°	40.1	40.6	41.1	41.1
15°	38.1	39.1	40.1	40.6
17.5°	36.1	38.1	39.1	39.6
20°	34.1	36.6	38.1	38.6
22.5°	32.6	35.1	37.1	38.1
25°	30.6	34.1	36.6	37.6
27.5°	28.6	32.6	35.6	37.1
30°	27.1	32.1	35.6	37.1
32.5°	25.5	31.1	35.1	36.6
35°	24.5	30.6	35.1	37.1
37.5°	23.5	30.1	35.1	36.6
40°	23.0	29.6	35.1	36.6
42.5°	22.5	29.6	35.1	37.1
45°	21.5	29.1	35.1	37.1
47.5°	21.0	29.1	35.1	37.1
50°	20.5	28.6	35.1	37.6
52.5°	20.0	28.1	35.1	37.6
55°	19.0	27.6	34.6	37.1
57.5°	18.5	27.1	34.1	36.1
60°	17.5	26.1	33.1	35.6
62.5°	16.5	25.0	32.1	34.1
65°	15.0	23.5	30.6	33.1
67.5°	13.5	21.5	29.1	31.6
70°	12.0	19.5	27.1	29.1
72.5°	10.5	17.5	25.0	26.6
75°	9.0	15.0	22.0	24.0
77.5°	7.5	13.0	18.5	20.0
80°	5.5	10.0	15.0	16.5
82.5°	4.5	7.5	11.0	12.0
85°	3.0	5.0	7.0	8.0
87.5°	1.5	2.5	3.5	4.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)