

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: P1306798

Luminaire Tested: P3SQAS09R659027DE010 E3SQCA451MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1306798
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-82)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS09R659027DE010 E3SQCA451MW
Description: 3in Adjustable LED luminaire with, R65 optic, 2700K CCT AND, 90CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

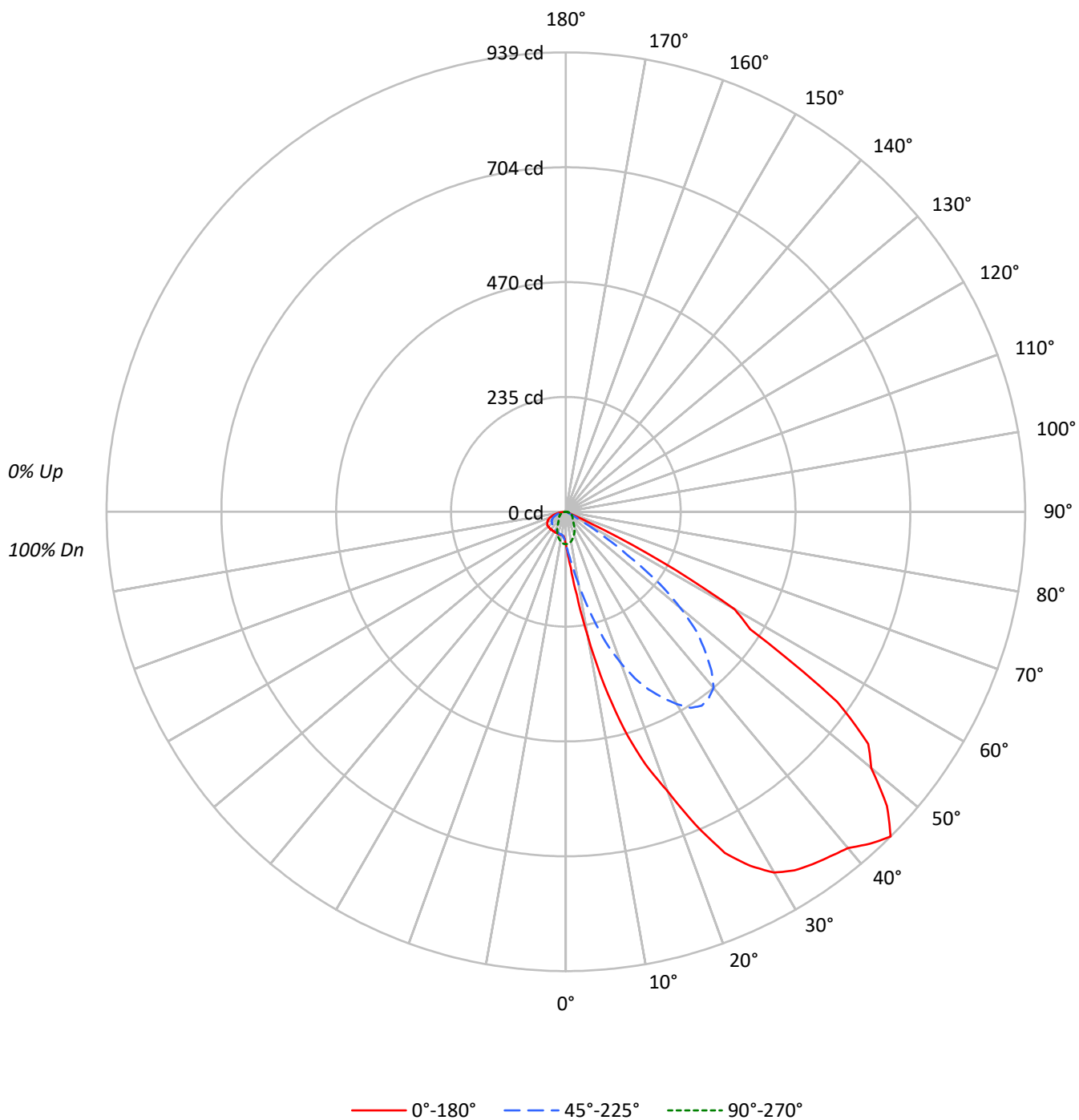
Lumens per Lamp: N/A
Luminaire Lumens: 681.0 lumens
Efficiency: N/A
Efficacy: 61.4 lumens/watt
Spacing Criteria (0/90/45): 3.28 / 0.89 / 2.04
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11.1
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	108	104	100	97	100	97	94	96	94	91	92	90	89
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47
6	71	57	49	42	69	57	48	42	55	47	42	53	46	41	51	46	41
7	65	52	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31
9	56	42	34	28	54	41	33	28	40	33	28	39	33	28	38	32	28
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	11401	11401	11401	11401	11401
5°	19950	16285	11220	9094	8730
10°	45136	26267	10755	8359	8482
15°	82053	42239	9985	8398	8647
20°	111248	60316	9017	8376	8761
25°	146226	76163	7924	8171	8950
30°	169334	90305	6781	8153	9367
35°	184910	101780	5740	8326	9903
40°	201709	105621	5058	8746	10589
45°	228678	97960	4822	9304	11472
50°	218444	81773	4769	9887	12620
55°	203577	45940	4924	10659	13932
60°	137124	9886	4926	11298	15052
65°	21150	2486	4727	11696	16423
70°	2417	2417	4482	12035	17523
75°	2262	2262	4059	11844	17700
80°	1984	2678	4066	10811	17654
85°	1383	2766	3952	10868	16203

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 228678 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.0	1.2
10°-20°	43.3	6.4
20°-30°	101.7	14.9
30°-40°	153.7	22.6
40°-50°	176.7	25.9
50°-60°	140.3	20.6
60°-70°	42.0	6.2
70°-80°	11.4	1.7
80°-90°	3.8	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°	153.1	22.5
0°-40°	306.8	45.0
0°-60°	623.7	91.6
0°-90°	681.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	681.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	66	66	66	66	66	
5°	115	94	65	53	50	15
15°	460	237	56	47	48	133
25°	770	401	42	43	47	351
35°	880	484	27	40	47	552
45°	939	402	20	38	47	697
55°	678	153	16	36	46	559
65°	52	6	12	29	40	116
75°	3	3	6	18	27	4
85°	1	1	2	6	8	1
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2
2.5°	84.0	84.7	84.0	84.0	83.3	82.6	77.8	72.4	66.2	61.5	58.0
5°	115.4	116.1	114.0	114.0	112.7	110.6	94.2	78.5	64.9	57.4	52.6
7.5°	170.7	173.4	170.0	165.9	158.4	157.0	117.4	84.7	63.5	53.3	49.2
10°	258.1	256.1	252.6	244.4	231.5	225.3	150.2	90.8	61.5	50.5	47.8
12.5°	363.9	358.5	354.4	339.4	321.6	311.4	191.2	96.3	58.7	47.8	47.1
15°	460.2	456.1	446.6	432.2	410.4	402.2	236.9	99.7	56.0	45.7	47.1
17.5°	541.5	537.4	531.9	517.6	495.0	482.8	288.1	101.7	52.6	44.4	46.4
20°	607.0	604.3	596.8	585.2	562.6	551.0	329.1	101.7	49.2	43.0	45.7
22.5°	691.7	685.5	676.0	658.9	630.9	613.2	368.0	99.7	45.7	41.7	44.4
25°	769.5	765.4	753.1	732.7	702.6	684.9	400.8	95.6	41.7	39.6	43.0
27.5°	816.0	813.2	801.6	780.5	747.0	733.3	428.1	89.4	37.6	37.6	42.3
30°	851.5	846.0	834.4	813.9	779.8	763.4	454.1	81.9	34.1	35.5	41.0
32.5°	869.2	867.2	856.9	839.2	805.7	787.3	475.2	72.4	30.0	34.1	40.3
35°	879.5	877.4	869.2	852.2	820.7	803.0	484.1	63.5	27.3	32.8	39.6
37.5°	887.7	885.6	875.4	858.3	826.9	808.5	480.0	53.9	24.6	31.4	38.9
40°	897.2	889.7	874.0	856.9	828.3	810.5	469.8	45.1	22.5	30.7	38.9
42.5°	920.4	894.5	869.9	854.2	826.9	806.4	440.4	35.5	20.5	29.4	38.2
45°	938.9	893.1	861.7	849.4	821.4	798.2	402.2	25.9	19.8	28.7	38.2
47.5°	890.4	862.4	848.1	841.2	811.2	785.9	362.6	17.8	19.1	28.0	37.6
50°	815.3	811.9	806.4	807.1	779.8	759.3	305.2	12.3	17.8	27.3	36.9
52.5°	779.1	775.0	765.4	758.6	731.3	713.5	241.7	9.6	17.1	26.6	36.2
55°	678.0	680.8	670.5	674.6	666.4	657.6	153.0	8.9	16.4	25.3	35.5
57.5°	446.6	460.2	484.1	512.8	538.7	556.5	82.6	8.9	15.0	24.6	34.1
60°	398.1	394.7	394.0	399.4	411.1	420.6	28.7	8.2	14.3	22.5	32.8
62.5°	217.8	216.5	236.9	271.8	292.2	294.3	8.2	8.2	13.0	21.2	30.7
65°	51.9	53.9	60.1	75.1	88.8	97.6	6.1	7.5	11.6	19.8	28.7
67.5°	8.2	8.9	8.9	10.9	12.3	12.3	5.5	6.8	10.2	17.8	26.6
70°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	6.1	8.9	15.7	23.9
72.5°	4.1	4.1	4.1	4.1	4.1	4.1	4.8	5.5	7.5	13.7	20.5
75°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	4.8	6.1	10.9	17.8
77.5°	2.7	2.7	2.7	2.7	2.7	2.7	3.4	4.1	5.5	8.9	14.3
80°	2.0	2.0	2.0	2.0	2.0	2.0	2.7	3.4	4.1	6.8	10.9
82.5°	1.4	1.4	1.4	1.4	1.4	1.4	2.0	2.7	3.4	5.5	8.2
85°	0.7	0.7	0.7	0.7	1.4	1.4	1.4	2.0	2.0	3.4	5.5
87.5°	0.7	0.7	0.7	0.7	0.7	0.7	1.4	1.4	1.4	2.0	2.7
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):

	157.5°	180°
0°	66.2	66.2
2.5°	56.0	55.3
5°	50.5	50.5
7.5°	48.5	48.5
10°	47.8	48.5
12.5°	47.8	48.5
15°	47.8	48.5
17.5°	47.8	48.5
20°	47.1	47.8
22.5°	46.4	47.1
25°	45.7	47.1
27.5°	45.1	47.1
30°	45.1	47.1
32.5°	45.1	47.1
35°	44.4	47.1
37.5°	44.4	47.1
40°	44.4	47.1
42.5°	44.4	47.1
45°	44.4	47.1
47.5°	44.4	47.1
50°	44.4	47.1
52.5°	43.7	47.1
55°	43.7	46.4
57.5°	42.3	45.1
60°	41.0	43.7
62.5°	39.6	42.3
65°	37.6	40.3
67.5°	35.5	37.6
70°	32.1	34.8
72.5°	28.7	30.7
75°	24.6	26.6
77.5°	20.5	22.5
80°	16.4	17.8
82.5°	11.6	13.0
85°	7.5	8.2
87.5°	3.4	3.4
90°	0.0	0.0

(END OF REPORT)