

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: P1308883

Luminaire Tested: P3SQAS05R709035DE010 E3SQCA451MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1308883
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-83)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS05R709035DE010 E3SQCA451MW
Description: 3in Adjustable LED luminaire with, R70 optic, 3500K CCT AND, 90CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

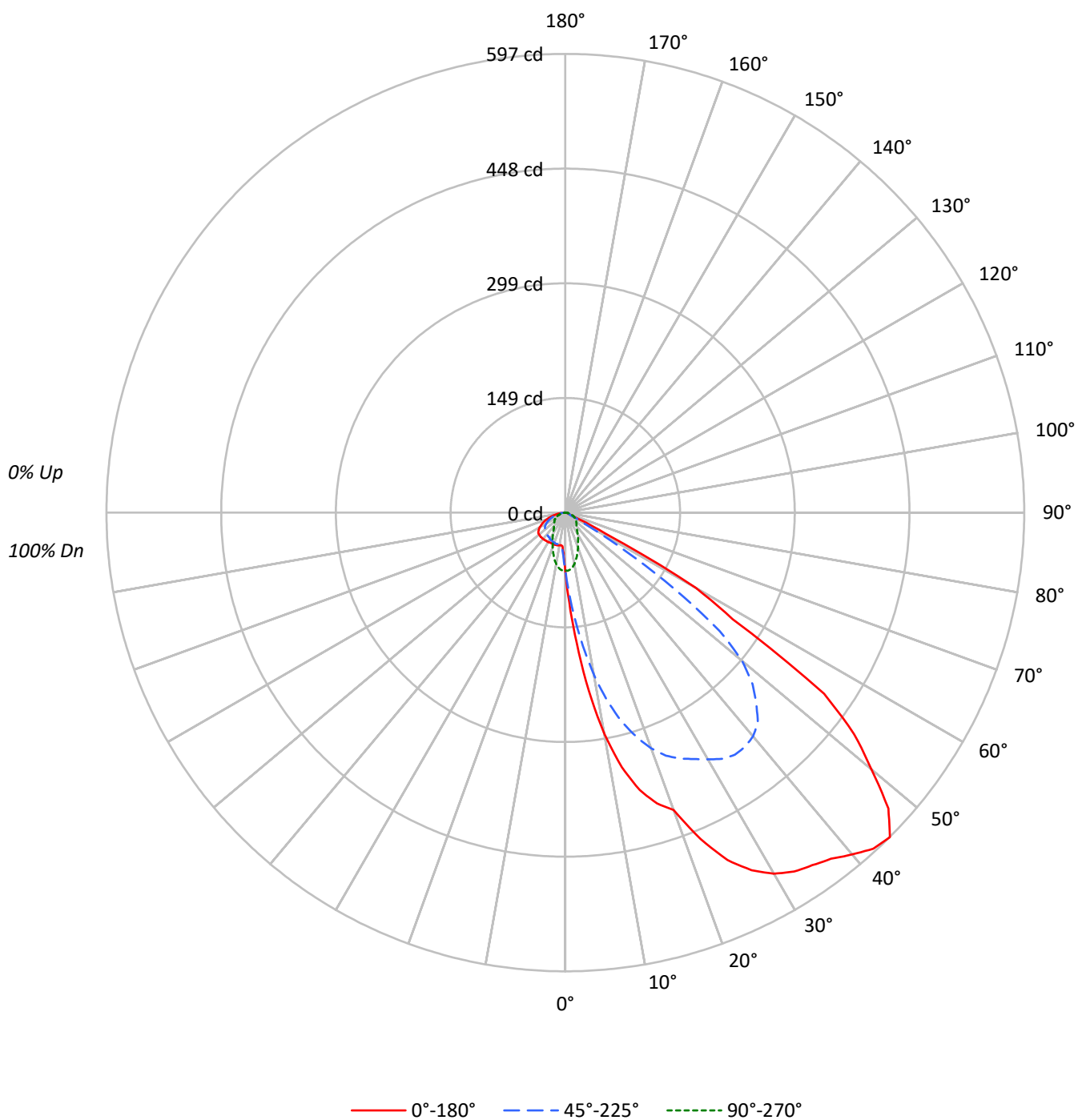
Lumens per Lamp: N/A
Luminaire Lumens: 516.0 lumens
Efficiency: N/A
Efficacy: 71.7 lumens/watt
Spacing Criteria (0/90/45): 2.92 / 0.77 / 2.03
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	110	106	103	99	108	104	101	98	100	97	95		96	94	92		93	91	89	87
2	101	94	88	83	99	92	87	82	89	84	80		86	82	78		83	79	77	75
3	93	83	76	70	90	82	75	69	79	73	68		76	71	67		74	69	66	64
4	85	74	66	59	83	72	65	59	70	63	58		68	62	57		66	61	57	54
5	78	66	57	51	76	65	57	51	63	55	50		61	54	49		59	53	49	47
6	72	59	50	44	70	58	50	44	56	49	43		54	48	43		53	47	43	41
7	66	53	44	38	65	52	44	38	51	43	38		49	43	38		48	42	37	35
8	61	48	40	34	60	47	39	34	46	39	33		45	38	33		44	38	33	31
9	57	44	35	30	56	43	35	30	42	35	30		41	34	30		40	34	29	28
10	53	40	32	27	52	39	32	27	38	31	27		37	31	26		37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	12951	12951	12951	12951	12951
5°	29459	23581	12810	8091	7572
10°	51047	37459	11892	7380	7555
15°	66648	50030	10377	7524	7809
20°	75491	59821	8871	7643	8119
25°	94804	67117	7430	7734	8323
30°	107904	73719	6344	7875	8810
35°	117758	80860	5529	8010	9314
40°	130553	85409	5103	8341	10072
45°	145454	85514	5017	8768	10911
50°	139324	80406	4957	9244	11869
55°	123347	52095	5104	9728	12821
60°	67546	11160	5132	9920	13296
65°	4809	2730	5053	9862	13407
70°	2316	2568	4683	9316	12941
75°	2063	2728	4458	8917	11978
80°	2083	2579	4066	8133	11207
85°	1976	2964	4150	7114	10078

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 145454 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.8	1.9
10°-20°	41.9	8.1
20°-30°	80.5	15.6
30°-40°	113.8	22.1
40°-50°	128.7	24.9
50°-60°	101.9	19.8
60°-70°	27.5	5.3
70°-80°	9.1	1.8
80°-90°	2.8	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°	132.2	25.6
0°-40°	246.0	47.7
0°-60°	476.6	92.4
0°-90°	516.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	516.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	75	75	75	75	75	
5°	170	136	74	47	44	20
15°	374	281	58	42	44	105
25°	499	353	39	41	44	229
35°	560	385	26	38	44	353
45°	597	351	21	36	45	447
55°	411	174	17	32	43	333
65°	12	7	12	24	33	43
75°	3	4	7	13	18	3
85°	1	2	2	4	5	1
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2
2.5°	116.9	116.9	116.3	114.3	113.3	110.7	108.6	103.0	89.1	75.7	64.9
5°	170.4	173.0	169.4	168.9	165.8	161.1	158.0	136.4	103.0	74.1	55.6
7.5°	233.7	234.8	233.7	228.6	223.9	216.2	209.0	175.0	116.9	71.6	48.9
10°	291.9	290.4	287.3	283.7	277.0	268.7	256.4	214.2	130.2	68.0	44.8
12.5°	339.3	338.7	335.1	331.5	323.3	312.5	300.1	249.7	141.6	63.3	42.7
15°	373.8	373.8	370.2	366.0	358.3	349.6	335.7	280.6	150.8	58.2	40.7
17.5°	396.9	395.9	393.3	390.2	384.1	375.3	364.5	305.3	157.0	53.0	40.2
20°	411.9	411.3	409.3	404.6	399.5	392.8	383.0	326.4	159.6	48.4	39.6
22.5°	459.7	455.6	447.9	438.1	425.8	409.8	396.4	342.4	158.6	43.2	38.6
25°	498.9	497.3	489.1	477.2	460.8	440.2	418.0	353.2	153.4	39.1	37.6
27.5°	524.6	522.0	514.3	501.4	483.9	463.8	443.3	361.4	146.2	35.5	36.0
30°	542.6	541.1	533.3	518.9	500.9	478.8	457.7	370.7	136.4	31.9	34.5
32.5°	553.9	552.4	544.7	531.8	514.3	491.1	466.9	379.9	124.6	28.8	32.9
35°	560.1	558.6	549.8	538.5	522.0	499.4	473.6	384.6	110.2	26.3	31.4
37.5°	567.8	564.8	552.9	539.0	522.5	501.4	475.7	384.1	95.8	24.2	30.4
40°	580.7	572.5	555.5	537.0	520.0	498.9	474.1	379.9	79.8	22.7	29.3
42.5°	593.1	581.2	556.0	533.9	514.8	494.2	468.5	370.7	62.3	21.6	28.8
45°	597.2	579.7	548.8	526.7	508.6	487.5	460.8	351.1	42.2	20.6	27.8
47.5°	569.9	557.0	531.3	514.8	497.8	477.2	449.4	330.5	24.2	19.6	26.8
50°	520.0	511.7	497.3	487.0	477.7	463.3	436.0	300.1	14.4	18.5	25.7
52.5°	473.6	471.1	460.8	452.5	447.4	440.7	416.0	253.3	11.8	18.0	24.7
55°	410.8	402.6	400.0	396.9	407.7	407.2	373.8	173.5	11.3	17.0	23.7
57.5°	257.9	261.5	274.9	299.6	329.0	346.0	344.9	92.7	10.8	16.0	22.1
60°	196.1	195.6	199.7	210.0	231.7	255.9	278.5	32.4	10.3	14.9	21.1
62.5°	58.7	60.2	72.6	106.6	127.7	157.5	143.6	7.7	9.8	13.4	19.0
65°	11.8	12.4	12.4	13.9	17.0	25.7	31.4	6.7	9.3	12.4	17.5
67.5°	5.1	5.1	5.1	5.7	5.7	6.7	5.7	6.2	8.2	10.8	15.4
70°	4.6	4.6	4.6	4.6	4.6	4.6	5.1	5.1	7.2	9.3	13.4
72.5°	3.6	3.6	3.6	4.1	4.1	4.1	4.1	4.6	6.2	7.7	11.3
75°	3.1	3.1	3.1	3.1	3.6	3.6	3.6	4.1	5.1	6.7	9.3
77.5°	2.6	2.6	2.6	2.6	2.6	3.1	3.1	3.1	4.1	5.1	7.7
80°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.6	3.1	4.1	5.7
82.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.1	2.6	3.1	4.1
85°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.5	1.5	2.1	2.6
87.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0	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):

	135°	157.5°	180°
0°	75.2	75.2	75.2
2.5°	57.1	54.1	52.5
5°	46.8	44.3	43.8
7.5°	43.2	42.7	42.7
10°	42.2	42.7	43.2
12.5°	42.2	43.2	43.8
15°	42.2	43.2	43.8
17.5°	42.2	43.2	43.8
20°	41.7	43.2	44.3
22.5°	41.2	43.2	43.8
25°	40.7	43.2	43.8
27.5°	40.2	42.7	43.8
30°	39.6	42.7	44.3
32.5°	38.6	42.7	44.3
35°	38.1	42.7	44.3
37.5°	37.6	42.7	44.8
40°	37.1	42.7	44.8
42.5°	36.6	42.7	44.8
45°	36.0	42.2	44.8
47.5°	35.0	42.2	44.8
50°	34.5	41.7	44.3
52.5°	33.5	41.2	44.3
55°	32.4	40.2	42.7
57.5°	30.9	38.6	40.7
60°	28.8	36.6	38.6
62.5°	26.3	34.0	35.5
65°	24.2	30.9	32.9
67.5°	21.1	27.3	29.3
70°	18.5	23.7	25.7
72.5°	16.0	20.1	22.1
75°	13.4	16.5	18.0
77.5°	10.3	13.4	14.4
80°	8.2	10.3	11.3
82.5°	5.7	7.2	7.7
85°	3.6	4.6	5.1
87.5°	1.5	2.1	2.1
90°	0.0	0.0	0.0

(END OF REPORT)