

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: P1310932

Luminaire Tested: P3SQAS02R709050DE010 E3SQCA451MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1310932
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: P3SQAS02R709050DE010 E3SQCA451MW
Description: 3in Adjustable LED luminaire with, R70 optic, 5000K CCT AND, 90CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

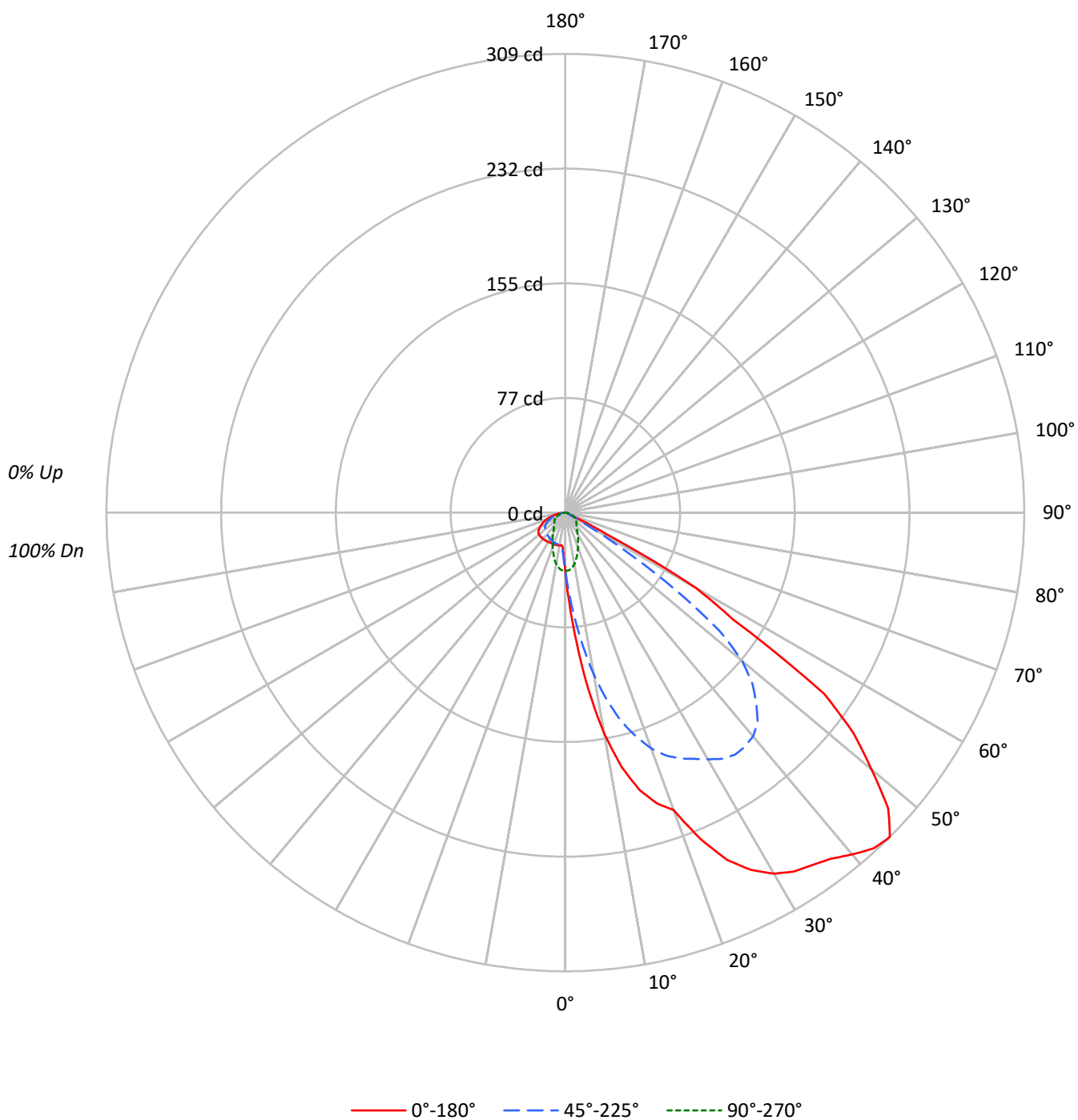
Lumens per Lamp: N/A
Luminaire Lumens: 267.0 lumens
Efficiency: N/A
Efficacy: 74.2 lumens/watt
Spacing Criteria (0/90/45): 2.92 / 0.77 / 2.03
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 3.6
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°	6699	6699	6699	6699	6699
5°	15248	12205	6639	4184	3907
10°	26407	19377	6156	3812	3917
15°	34483	25889	5367	3887	4030
20°	39056	30955	4582	3959	4197
25°	49046	34718	3839	3991	4295
30°	55841	38142	3281	4077	4554
35°	60929	41839	2859	4142	4815
40°	67559	44200	2630	4317	5216
45°	75260	44255	2606	4530	5651
50°	72100	41610	2572	4769	6136
55°	63835	26963	2642	5044	6636
60°	34961	5787	2652	5132	6889
65°	2486	1426	2608	5094	6928
70°	1209	1360	2417	4834	6697
75°	1065	1397	2329	4591	6188
80°	1091	1289	2083	4265	5852
85°	988	1581	2174	3754	5335

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 75260 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.1	1.9
10°-20°	21.7	8.1
20°-30°	41.6	15.6
30°-40°	58.9	22.0
40°-50°	66.6	24.9
50°-60°	52.7	19.8
60°-70°	14.2	5.3
70°-80°	4.7	1.8
80°-90°	1.4	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°	68.4	25.6
0°-40°	127.3	47.7
0°-60°	246.6	92.4
0°-90°	267.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	267.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	39	39	39	39	39	
5°	88	71	38	24	23	10
15°	193	145	30	22	23	54
25°	258	183	20	21	23	118
35°	290	199	14	20	23	183
45°	309	182	11	19	23	231
55°	213	90	9	17	22	173
65°	6	4	6	12	17	22
75°	2	2	4	7	9	2
85°	0	1	1	2	3	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°	38.9	38.9	38.9	38.9	38.9	38.9	38.9	38.9	38.9	38.9	38.9
2.5°	60.5	60.5	60.2	59.1	58.6	57.3	56.2	53.3	46.1	39.2	33.6
5°	88.2	89.5	87.6	87.4	85.8	83.4	81.8	70.6	53.3	38.4	28.8
7.5°	120.9	121.5	120.9	118.3	115.9	111.9	108.2	90.6	60.5	37.0	25.3
10°	151.0	150.2	148.6	146.8	143.3	139.1	132.7	110.8	67.4	35.2	23.2
12.5°	175.5	175.3	173.4	171.6	167.3	161.7	155.3	129.2	73.3	32.8	22.1
15°	193.4	193.4	191.5	189.4	185.4	180.9	173.7	145.2	78.1	30.1	21.0
17.5°	205.4	204.9	203.5	201.9	198.7	194.2	188.6	158.0	81.2	27.4	20.8
20°	213.1	212.8	211.8	209.4	206.7	203.3	198.2	168.9	82.6	25.0	20.5
22.5°	237.9	235.8	231.8	226.7	220.3	212.0	205.1	177.1	82.0	22.4	20.0
25°	258.1	257.3	253.1	246.9	238.4	227.8	216.3	182.7	79.4	20.2	19.4
27.5°	271.4	270.1	266.1	259.5	250.4	240.0	229.4	187.0	75.7	18.4	18.6
30°	280.8	280.0	276.0	268.5	259.2	247.7	236.8	191.8	70.6	16.5	17.8
32.5°	286.6	285.8	281.8	275.2	266.1	254.1	241.6	196.6	64.5	14.9	17.0
35°	289.8	289.0	284.5	278.6	270.1	258.4	245.1	199.0	57.0	13.6	16.2
37.5°	293.8	292.2	286.1	278.9	270.4	259.5	246.1	198.7	49.5	12.5	15.7
40°	300.5	296.2	287.4	277.8	269.1	258.1	245.3	196.6	41.3	11.7	15.2
42.5°	306.9	300.8	287.7	276.2	266.4	255.7	242.4	191.8	32.2	11.2	14.9
45°	309.0	300.0	284.0	272.5	263.2	252.3	238.4	181.7	21.8	10.7	14.4
47.5°	294.9	288.2	274.9	266.4	257.6	246.9	232.6	171.0	12.5	10.1	13.9
50°	269.1	264.8	257.3	252.0	247.2	239.7	225.6	155.3	7.5	9.6	13.3
52.5°	245.1	243.7	238.4	234.2	231.5	228.0	215.2	131.1	6.1	9.3	12.8
55°	212.6	208.3	207.0	205.4	211.0	210.7	193.4	89.8	5.9	8.8	12.3
57.5°	133.5	135.3	142.3	155.0	170.2	179.0	178.5	47.9	5.6	8.3	11.5
60°	101.5	101.2	103.4	108.7	119.9	132.4	144.1	16.8	5.3	7.7	10.9
62.5°	30.4	31.2	37.6	55.1	66.1	81.5	74.3	4.0	5.1	6.9	9.9
65°	6.1	6.4	6.4	7.2	8.8	13.3	16.2	3.5	4.8	6.4	9.1
67.5°	2.7	2.7	2.7	2.9	2.9	3.5	2.9	3.2	4.3	5.6	8.0
70°	2.4	2.4	2.4	2.4	2.4	2.4	2.7	2.7	3.7	4.8	6.9
72.5°	1.9	1.9	1.9	2.1	2.1	2.1	2.1	2.4	3.2	4.0	5.9
75°	1.6	1.6	1.6	1.6	1.9	1.9	1.9	2.1	2.7	3.5	4.8
77.5°	1.3	1.3	1.3	1.3	1.3	1.6	1.6	1.6	2.1	2.7	4.0
80°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.3	1.6	2.1	2.9
82.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.1	1.3	1.6	2.1
85°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.8	0.8	1.1	1.3
87.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.8
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°	38.9	38.9	38.9
2.5°	29.6	28.0	27.2
5°	24.2	22.9	22.6
7.5°	22.4	22.1	22.1
10°	21.8	22.1	22.4
12.5°	21.8	22.4	22.6
15°	21.8	22.4	22.6
17.5°	21.8	22.4	22.6
20°	21.6	22.4	22.9
22.5°	21.3	22.4	22.6
25°	21.0	22.4	22.6
27.5°	20.8	22.1	22.6
30°	20.5	22.1	22.9
32.5°	20.0	22.1	22.9
35°	19.7	22.1	22.9
37.5°	19.4	22.1	23.2
40°	19.2	22.1	23.2
42.5°	18.9	22.1	23.2
45°	18.6	21.8	23.2
47.5°	18.1	21.8	23.2
50°	17.8	21.6	22.9
52.5°	17.3	21.3	22.9
55°	16.8	20.8	22.1
57.5°	16.0	20.0	21.0
60°	14.9	18.9	20.0
62.5°	13.6	17.6	18.4
65°	12.5	16.0	17.0
67.5°	10.9	14.1	15.2
70°	9.6	12.3	13.3
72.5°	8.3	10.4	11.5
75°	6.9	8.5	9.3
77.5°	5.3	6.9	7.5
80°	4.3	5.3	5.9
82.5°	2.9	3.7	4.0
85°	1.9	2.4	2.7
87.5°	0.8	1.1	1.1
90°	0.0	0.0	0.0

(END OF REPORT)