

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: P1317907

Luminaire Tested: P3SQAS09R559835DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1317907
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-80)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS09R559835DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R55 optic, 3500K CCT AND, 98CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

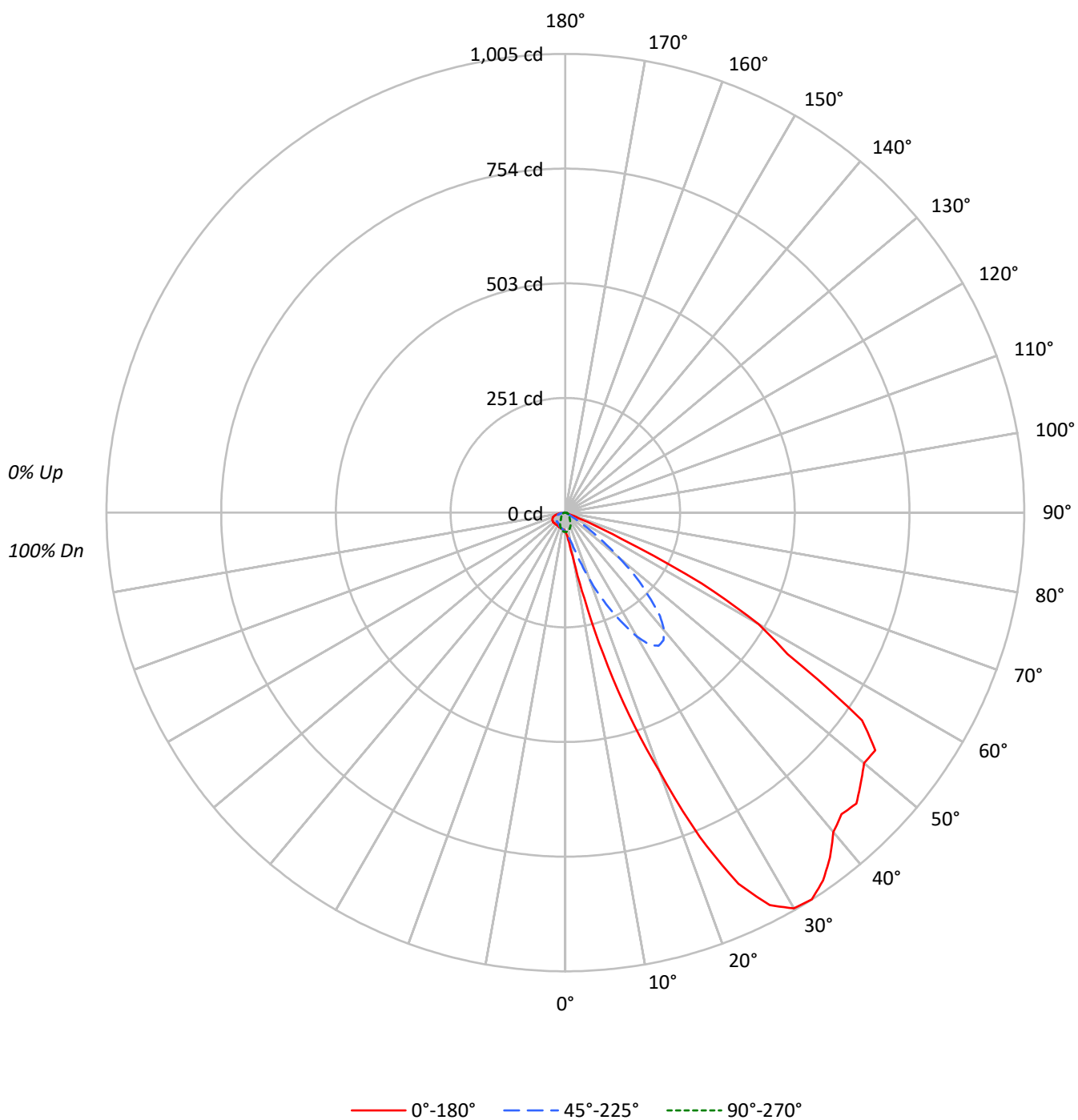
Lumens per Lamp: N/A
Luminaire Lumens: 646.0 lumens
Efficiency: N/A
Efficacy: 58.7 lumens/watt
Spacing Criteria (0/90/45): 3.76 / 0.9 / 1.95
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11
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	107	104	100	97	99	97	94	95	93	91	92	90	88
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75
3	91	81	73	67	89	80	72	67	77	71	65	74	69	64	72	67	63
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54
5	76	63	54	47	74	62	53	47	60	52	47	58	51	46	56	50	46
6	69	56	47	40	68	55	46	40	53	46	40	51	45	39	50	44	39
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	38	34
8	59	45	36	30	57	44	36	30	43	35	30	41	35	29	40	34	29
9	54	40	32	26	53	40	32	26	39	31	26	38	31	26	36	30	26
10	50	37	28	23	49	36	28	23	35	28	23	34	27	23	33	27	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	7182	7182	7182	7182	7182
5°	9180	8385	7209	6708	6518
10°	18660	10685	6995	6383	6383
15°	57287	16386	6508	6205	6419
20°	110790	28664	5865	6066	6378
25°	170511	44580	5093	5853	6404
30°	199084	62324	4196	5787	6582
35°	206881	74889	3490	5761	6833
40°	205306	75585	3215	6025	7442
45°	219520	62570	3069	6527	8062
50°	228786	41288	3054	7047	9029
55°	238227	17986	3093	7717	9939
60°	168296	4133	3134	8439	11194
65°	54892	1386	3016	9088	12551
70°	1712	1460	3172	9769	14351
75°	1530	1530	2662	10247	15970
80°	1091	1686	2876	10215	16960
85°	1186	2174	3359	10078	16994

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 242055 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.4	0.7
10°-20°	27.4	4.2
20°-30°	91.9	14.2
30°-40°	151.0	23.4
40°-50°	168.4	26.1
50°-60°	141.8	21.9
60°-70°	48.1	7.4
70°-80°	9.4	1.5
80°-90°	3.5	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°	123.8	19.2
0°-40°	274.8	42.5
0°-60°	585.0	90.6
0°-90°	646.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	646.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	42	42	42	42	42	
5°	53	48	42	39	38	7
15°	321	92	36	35	36	102
25°	897	235	27	31	34	403
35°	984	356	17	27	32	611
45°	901	257	13	27	33	688
55°	793	60	10	26	33	646
65°	135	3	7	22	31	182
75°	2	2	4	15	24	2
85°	1	1	2	5	9	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°	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7
2.5°	45.7	45.7	45.7	45.7	45.7	45.7	45.1	43.4	42.2	40.5	40.0
5°	53.1	53.1	53.1	52.5	52.5	51.4	48.5	44.5	41.7	39.4	38.8
7.5°	68.5	67.9	66.8	66.2	64.5	63.9	53.7	45.7	41.1	38.2	37.7
10°	106.7	105.6	103.9	97.6	91.9	87.9	61.1	46.2	40.0	37.1	36.5
12.5°	192.4	190.1	181.5	168.4	152.4	144.4	73.1	46.8	38.2	36.0	36.0
15°	321.3	318.5	302.5	284.2	255.1	239.2	91.9	46.2	36.5	34.2	34.8
17.5°	464.0	456.1	439.5	415.5	376.1	357.3	119.9	45.1	34.2	33.1	34.2
20°	604.5	602.2	574.8	542.2	493.7	468.6	156.4	43.4	32.0	31.4	33.1
22.5°	768.8	759.1	730.0	695.2	628.4	595.3	195.8	41.1	29.7	29.7	32.0
25°	897.3	885.9	863.0	822.5	759.1	723.7	234.6	38.2	26.8	28.0	30.8
27.5°	969.2	956.1	938.9	904.1	855.0	823.6	273.4	34.8	24.0	26.3	29.7
30°	1001.1	997.7	985.2	959.5	914.4	886.4	313.4	30.8	21.1	24.5	29.1
32.5°	1004.6	1006.3	1001.1	984.6	950.3	926.4	343.0	27.4	18.8	23.4	28.0
35°	984.0	990.3	993.7	986.9	964.6	945.2	356.2	23.4	16.6	22.3	27.4
37.5°	952.1	963.5	974.9	976.6	962.9	950.3	352.7	20.0	15.4	21.7	27.4
40°	913.2	923.5	946.9	961.8	957.2	948.1	336.2	16.6	14.3	20.5	26.8
42.5°	895.6	897.8	923.0	948.1	946.9	939.5	307.1	13.1	13.1	20.5	26.8
45°	901.3	891.0	907.5	936.6	934.9	925.2	256.9	10.3	12.6	20.0	26.8
47.5°	877.3	863.0	891.0	925.2	919.0	904.7	212.3	7.4	12.0	19.4	26.3
50°	853.9	851.6	873.3	890.4	881.9	873.9	154.1	5.7	11.4	18.8	26.3
52.5°	855.6	851.6	853.9	853.3	836.2	827.6	105.6	4.6	10.8	18.3	26.3
55°	793.4	780.8	768.8	772.3	773.4	767.7	59.9	4.0	10.3	18.3	25.7
57.5°	576.5	573.1	586.2	623.3	652.4	655.8	29.1	4.0	9.7	17.7	25.1
60°	488.6	486.3	486.9	497.7	513.1	503.4	12.0	4.0	9.1	17.1	24.5
62.5°	336.8	359.0	368.2	393.3	383.0	369.3	4.6	4.6	8.6	16.0	24.0
65°	134.7	134.1	146.7	158.7	155.3	145.0	3.4	4.0	7.4	14.8	22.3
67.5°	31.4	28.5	24.5	21.1	17.7	14.3	3.4	4.0	6.8	13.7	21.1
70°	3.4	3.4	3.4	3.4	3.4	2.9	2.9	4.0	6.3	12.6	19.4
72.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	3.4	5.1	10.8	17.7
75°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.9	4.0	9.1	15.4
77.5°	1.7	1.7	1.7	2.3	1.7	2.3	2.3	2.9	3.4	7.4	13.1
80°	1.1	1.1	1.7	1.7	1.7	1.7	1.7	2.3	2.9	6.3	10.3
82.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.7	1.7	2.3	4.6	7.4
85°	0.6	0.6	0.6	0.6	0.6	1.1	1.1	1.7	1.7	3.4	5.1
87.5°	0.6	0.6	0.6	0.6	0.6	0.6	1.1	1.1	1.7	1.7	2.3
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°	41.7	41.7
2.5°	39.4	39.4
5°	38.2	37.7
7.5°	37.1	37.1
10°	36.5	36.5
12.5°	36.0	36.5
15°	36.0	36.0
17.5°	34.8	35.4
20°	34.2	34.8
22.5°	33.7	34.2
25°	33.1	33.7
27.5°	32.5	33.1
30°	32.0	33.1
32.5°	31.4	32.5
35°	31.4	32.5
37.5°	31.4	33.1
40°	31.4	33.1
42.5°	31.4	33.1
45°	31.4	33.1
47.5°	31.4	33.1
50°	31.4	33.7
52.5°	31.4	33.7
55°	31.4	33.1
57.5°	30.8	33.1
60°	30.8	32.5
62.5°	30.3	32.0
65°	29.1	30.8
67.5°	28.0	30.3
70°	26.3	28.5
72.5°	24.5	26.3
75°	22.3	24.0
77.5°	19.4	20.5
80°	15.4	17.1
82.5°	12.0	13.1
85°	8.0	8.6
87.5°	3.4	4.0
90°	0.0	0.0

(END OF REPORT)