

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: P1309033

Luminaire Tested: P3SQAS09R659035DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1309033
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: P3SQAS09R659035DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R65 optic, 3500K CCT AND, 90CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

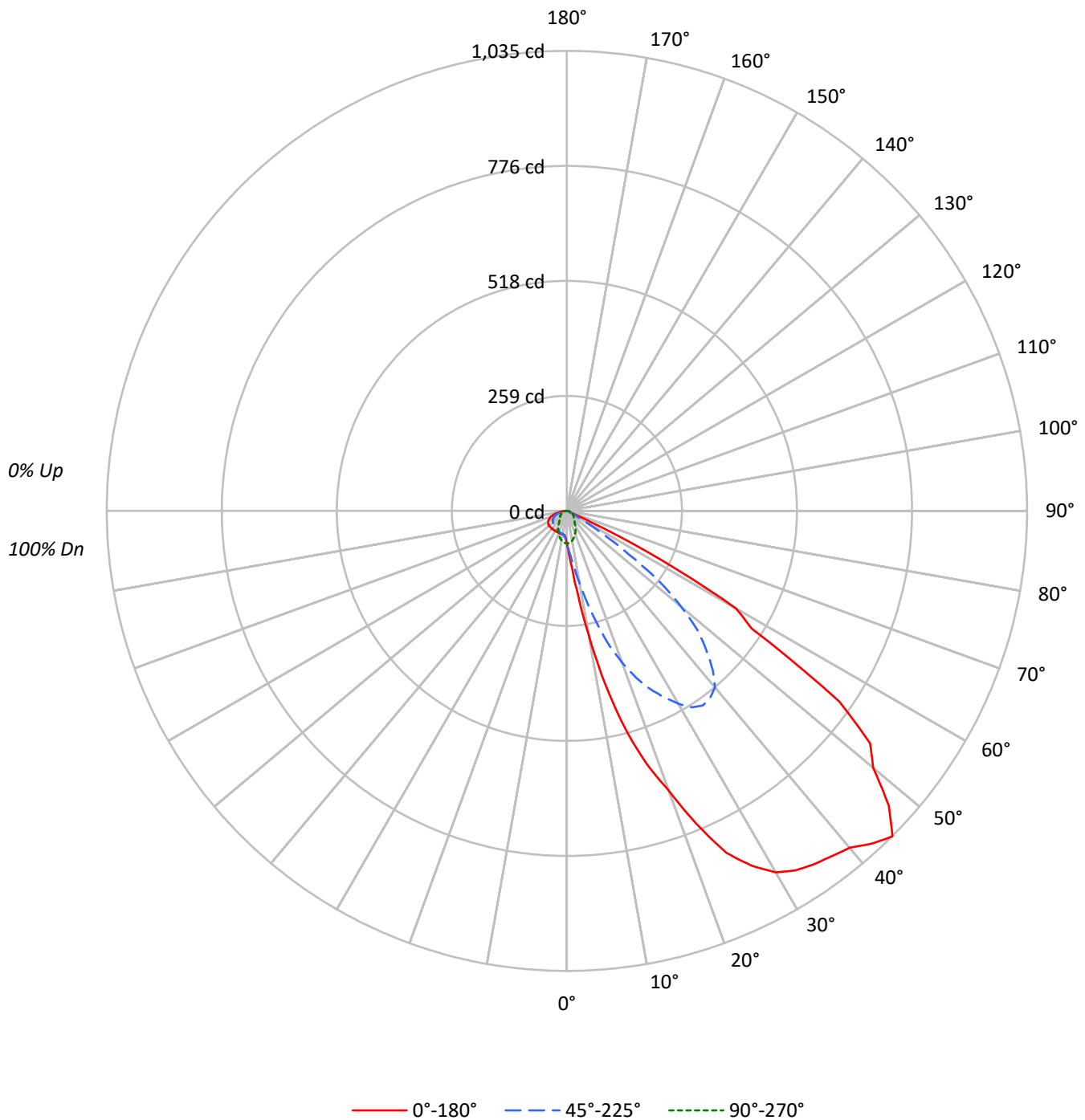
Lumens per Lamp: N/A
Luminaire Lumens: 751.0 lumens
Efficiency: N/A
Efficacy: 67.7 lumens/watt
Spacing Criteria (0/90/45): 3.28 / 0.89 / 2.04
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	110	106	102	99	108	104	100	97	100	97	94	96	94	91	92	90	89	87		
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	74		
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	64	62		
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55	53		
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45		
6	71	57	49	42	69	57	48	42	55	47	42	53	46	41	51	46	41	39		
7	65	52	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	34		
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29		
9	56	42	34	28	54	41	33	28	40	33	28	39	33	28	38	32	28	26		
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	12572	12572	12572	12572	12572
5°	22008	17962	12361	10027	9629
10°	49771	28978	11857	9216	9356
15°	90486	46589	11001	9271	9539
20°	122685	66511	9934	9255	9659
25°	161257	83992	8722	9007	9881
30°	186735	99572	7497	8989	10341
35°	203917	112250	6328	9188	10933
40°	222438	116480	5576	9645	11691
45°	252182	108019	5310	10278	12665
50°	240897	90186	5251	10905	13932
55°	224505	50654	5435	11770	15373
60°	151211	10884	5442	12434	16602
65°	23310	2771	5216	12877	18094
70°	2669	2669	4935	13294	19336
75°	2529	2529	4525	13042	19563
80°	2281	2975	4463	11901	19439
85°	1581	2964	4545	11856	17784

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 252182 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.8	1.2
10°-20°	47.8	6.4
20°-30°	112.2	14.9
30°-40°	169.5	22.6
40°-50°	194.8	25.9
50°-60°	154.7	20.6
60°-70°	46.3	6.2
70°-80°	12.6	1.7
80°-90°	4.2	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°	168.8	22.5
0°-40°	338.3	45.0
0°-60°	687.8	91.6
0°-90°	751.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	751.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	73	73	73	73	73	
5°	127	104	72	58	56	17
15°	508	261	62	52	54	146
25°	849	442	46	47	52	387
35°	970	534	30	44	52	609
45°	1035	444	22	42	52	769
55°	748	169	18	39	51	616
65°	57	7	13	32	44	128
75°	4	4	7	20	29	4
85°	1	2	2	6	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°	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0
2.5°	92.6	93.4	92.6	92.6	91.9	91.1	85.8	79.8	73.0	67.8	64.0
5°	127.3	128.0	125.8	125.8	124.2	122.0	103.9	86.6	71.5	63.3	58.0
7.5°	188.3	191.3	187.5	183.0	174.7	173.2	129.5	93.4	70.0	58.7	54.2
10°	284.6	282.4	278.6	269.6	255.3	248.5	165.7	100.1	67.8	55.7	52.7
12.5°	401.3	395.3	390.8	374.2	354.7	343.4	210.8	106.2	64.8	52.7	52.0
15°	507.5	503.0	492.5	476.6	452.6	443.5	261.3	109.9	61.7	50.5	52.0
17.5°	597.1	592.6	586.6	570.8	545.9	532.4	317.8	112.2	58.0	48.9	51.2
20°	669.4	666.4	658.1	645.3	620.5	607.7	362.9	112.2	54.2	47.4	50.5
22.5°	762.8	756.0	745.5	726.6	695.8	676.2	405.9	109.9	50.5	45.9	48.9
25°	848.6	844.1	830.6	808.0	774.8	755.3	442.0	105.4	45.9	43.7	47.4
27.5°	899.8	896.8	884.0	860.7	823.8	808.7	472.1	98.6	41.4	41.4	46.7
30°	939.0	933.0	920.2	897.6	859.9	841.9	500.7	90.4	37.7	39.2	45.2
32.5°	958.6	956.3	945.0	925.4	888.5	868.2	524.1	79.8	33.1	37.7	44.4
35°	969.9	967.6	958.6	939.7	905.1	885.5	533.9	70.0	30.1	36.1	43.7
37.5°	978.9	976.6	965.3	946.5	911.9	891.6	529.4	59.5	27.1	34.6	42.9
40°	989.4	981.2	963.8	945.0	913.4	893.8	518.1	49.7	24.8	33.9	42.9
42.5°	1015.0	986.4	959.3	942.0	911.9	889.3	485.7	39.2	22.6	32.4	42.2
45°	1035.4	984.9	950.3	936.7	905.9	880.3	443.5	28.6	21.8	31.6	42.2
47.5°	981.9	951.0	935.2	927.7	894.6	866.7	399.8	19.6	21.1	30.9	41.4
50°	899.1	895.3	889.3	890.0	859.9	837.3	336.6	13.6	19.6	30.1	40.7
52.5°	859.2	854.7	844.1	836.6	806.5	786.9	266.6	10.5	18.8	29.4	39.9
55°	747.7	750.7	739.4	744.0	734.9	725.1	168.7	9.8	18.1	27.9	39.2
57.5°	492.5	507.5	533.9	565.5	594.1	613.7	91.1	9.8	16.6	27.1	37.7
60°	439.0	435.2	434.5	440.5	453.3	463.8	31.6	9.0	15.8	24.8	36.1
62.5°	240.2	238.7	261.3	299.7	322.3	324.5	9.0	9.0	14.3	23.3	33.9
65°	57.2	59.5	66.3	82.8	97.9	107.7	6.8	8.3	12.8	21.8	31.6
67.5°	9.0	9.8	9.8	12.0	13.6	13.6	6.0	7.5	11.3	19.6	29.4
70°	5.3	5.3	5.3	5.3	5.3	5.3	5.3	6.8	9.8	17.3	26.4
72.5°	4.5	4.5	4.5	4.5	4.5	4.5	5.3	6.0	8.3	15.1	22.6
75°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	5.3	6.8	12.0	19.6
77.5°	3.0	3.0	3.0	3.0	3.0	3.0	3.8	4.5	6.0	9.8	15.8
80°	2.3	2.3	2.3	2.3	2.3	2.3	3.0	3.8	4.5	7.5	12.0
82.5°	1.5	1.5	1.5	1.5	1.5	1.5	2.3	3.0	3.8	6.0	9.0
85°	0.8	0.8	0.8	0.8	1.5	1.5	1.5	2.3	2.3	3.8	6.0
87.5°	0.8	0.8	0.8	0.8	0.8	0.8	1.5	1.5	1.5	2.3	3.0
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°	73.0	73.0
2.5°	61.7	61.0
5°	55.7	55.7
7.5°	53.5	53.5
10°	52.7	53.5
12.5°	52.7	53.5
15°	52.7	53.5
17.5°	52.7	53.5
20°	52.0	52.7
22.5°	51.2	52.0
25°	50.5	52.0
27.5°	49.7	52.0
30°	49.7	52.0
32.5°	49.7	52.0
35°	48.9	52.0
37.5°	48.9	52.0
40°	48.9	52.0
42.5°	48.9	52.0
45°	48.9	52.0
47.5°	48.9	52.0
50°	48.9	52.0
52.5°	48.2	52.0
55°	48.2	51.2
57.5°	46.7	49.7
60°	45.2	48.2
62.5°	43.7	46.7
65°	41.4	44.4
67.5°	39.2	41.4
70°	35.4	38.4
72.5°	31.6	33.9
75°	27.1	29.4
77.5°	22.6	24.8
80°	18.1	19.6
82.5°	12.8	14.3
85°	8.3	9.0
87.5°	3.8	3.8
90°	0.0	0.0

(END OF REPORT)