

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: P1309026

Luminaire Tested: P3SQAS09R609035DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1309026
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-81)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS09R609035DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R60 optic, 3500K CCT AND, 90CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

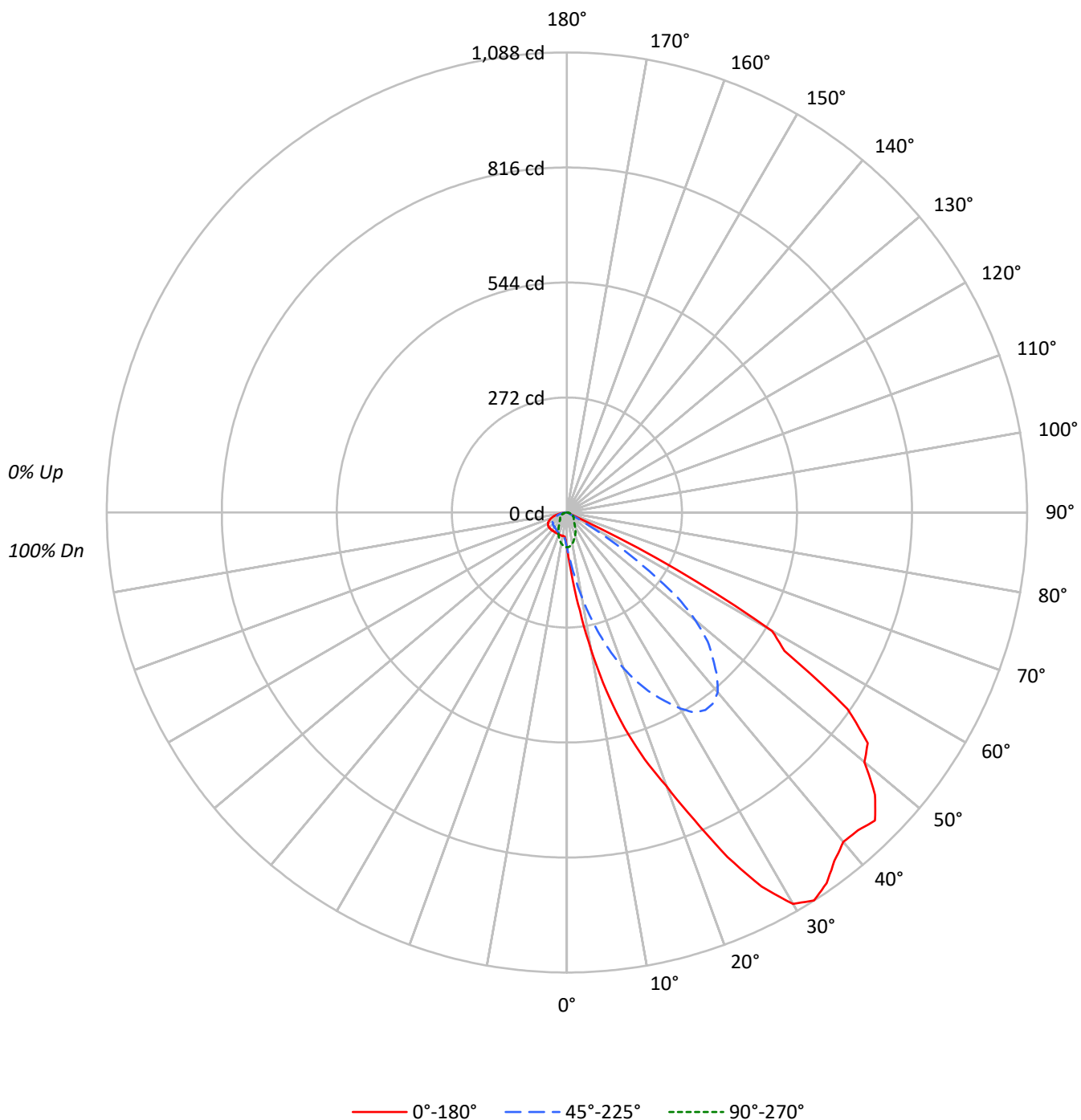
Lumens per Lamp: N/A
Luminaire Lumens: 828.0 lumens
Efficiency: N/A
Efficacy: 74.6 lumens/watt
Spacing Criteria (0/90/45): 3.38 / 0.84 / 2.07
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	93	91	92	90	89
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64
4	84	72	64	58	82	71	63	57	69	62	56	66	60	56	64	59	55
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31
9	55	42	33	28	54	41	33	28	40	33	28	39	32	27	38	32	27
10	52	38	30	25	50	38	30	25	37	29	24	36	29	24	35	29	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	14122	14122	14122	14122	14122
5°	27851	21731	13917	10546	10027
10°	57518	35413	13029	9601	9741
15°	94070	53151	11679	9664	9931
20°	126222	72009	10483	9659	10062
25°	170777	89389	9159	9577	10432
30°	212548	106413	7636	9585	10918
35°	225025	119945	6497	9818	11395
40°	228598	124708	5913	10162	12343
45°	250964	118784	5675	10814	13371
50°	246014	106476	5653	11494	14709
55°	243181	65307	5645	12431	16274
60°	192889	15569	5959	13227	17636
65°	12266	2771	5827	13489	19031
70°	2669	3021	5690	13999	20091
75°	2529	2994	4991	13508	20561
80°	2281	2975	5256	13389	19439
85°	1581	2964	5928	11856	19365

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°

Vertical Angle: 52.5°

Luminance: 264885 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.2	1.2
10°-20°	51.6	6.2
20°-30°	119.7	14.5
30°-40°	186.1	22.5
40°-50°	212.1	25.6
50°-60°	178.6	21.6
60°-70°	51.8	6.3
70°-80°	13.3	1.6
80°-90°	4.5	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°	181.6	21.9
0°-40°	367.7	44.4
0°-60°	758.4	91.6
0°-90°	828.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	828.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	82	82	82	82	82	
5°	161	126	80	61	58	21
15°	528	298	66	54	56	153
25°	899	470	48	50	55	417
35°	1070	570	31	47	54	665
45°	1030	488	23	44	55	775
55°	810	218	19	41	54	681
65°	30	7	14	33	47	149
75°	4	4	8	20	31	4
85°	1	2	3	6	10	1
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0
2.5°	110.6	109.9	109.9	109.1	108.4	107.6	105.4	104.6	100.1	91.1	82.0
5°	161.1	160.3	158.1	157.3	153.5	148.3	143.0	137.7	125.7	100.1	80.5
7.5°	233.3	234.8	233.3	225.0	219.8	211.5	195.7	184.4	160.3	109.1	77.5
10°	328.9	328.9	326.7	313.9	302.6	286.8	266.4	246.9	202.5	117.4	74.5
12.5°	432.8	435.0	423.7	413.2	392.9	373.3	345.5	316.1	250.6	124.2	70.8
15°	527.6	526.1	514.8	501.3	480.2	453.1	423.7	386.1	298.1	128.7	65.5
17.5°	611.9	608.9	599.1	584.1	558.5	528.4	490.7	450.1	347.0	132.5	61.7
20°	688.7	678.1	666.9	651.1	626.2	594.6	555.5	509.6	392.9	132.5	57.2
22.5°	785.8	775.2	759.4	735.4	702.2	663.1	617.2	565.2	433.5	129.5	52.7
25°	898.7	890.4	863.3	832.4	789.5	742.9	689.4	619.4	470.4	124.9	48.2
27.5°	997.3	988.2	961.2	916.0	864.1	808.4	751.9	680.4	502.8	116.7	42.9
30°	1068.8	1057.5	1036.4	993.5	930.3	862.6	795.6	727.1	535.1	106.9	38.4
32.5°	1087.6	1086.1	1070.3	1038.7	982.2	907.7	827.9	753.4	560.7	94.1	34.6
35°	1070.3	1072.5	1069.5	1053.7	1012.3	939.3	849.0	767.7	570.5	81.3	30.9
37.5°	1038.7	1041.7	1047.0	1049.2	1022.9	958.1	861.0	773.7	568.3	68.5	28.6
40°	1016.8	1015.3	1015.3	1030.4	1025.1	966.4	862.6	769.2	554.7	54.9	26.3
42.5°	1019.1	1002.5	991.3	1015.3	1022.9	962.7	852.8	757.2	525.4	42.1	24.1
45°	1030.4	995.0	975.5	1006.3	1018.4	949.9	834.7	739.1	487.7	29.4	23.3
47.5°	988.2	964.9	961.9	1005.6	1010.1	928.0	806.9	710.5	451.6	20.3	21.8
50°	918.2	914.5	930.3	975.5	976.2	891.9	775.2	658.6	397.4	14.3	21.1
52.5°	896.4	898.7	913.0	936.3	914.5	830.9	718.0	614.9	328.9	11.3	20.3
55°	809.9	813.6	827.2	841.5	825.7	756.4	648.8	562.2	217.5	10.5	18.8
57.5°	609.7	619.4	644.3	657.1	658.6	616.4	587.8	484.7	122.7	10.5	18.1
60°	560.0	547.2	535.9	509.6	485.5	480.2	483.2	363.5	45.2	9.8	17.3
62.5°	292.8	286.8	304.1	315.4	318.4	334.9	313.1	191.9	9.8	9.8	15.8
65°	30.1	30.1	36.9	48.9	81.3	108.4	103.1	55.7	6.8	9.0	14.3
67.5°	9.0	9.0	9.0	10.5	13.5	13.5	11.3	8.3	6.8	8.3	12.8
70°	5.3	5.3	5.3	5.3	5.3	5.3	6.0	5.3	6.0	7.5	11.3
72.5°	4.5	4.5	4.5	4.5	5.3	5.3	5.3	5.3	5.3	6.8	9.8
75°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	4.5	4.5	5.3	7.5
77.5°	3.0	3.0	3.0	3.0	3.0	3.0	3.8	3.8	3.8	4.5	6.0
80°	2.3	2.3	2.3	2.3	2.3	3.0	3.0	3.0	3.0	3.8	5.3
82.5°	1.5	1.5	1.5	1.5	2.3	2.3	2.3	2.3	2.3	3.0	3.8
85°	0.8	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.3	3.0
87.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.5	1.5	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):

	112.5°	135°	157.5°	180°
0°	82.0	82.0	82.0	82.0
2.5°	74.5	69.2	66.2	64.7
5°	67.7	61.0	58.7	58.0
7.5°	61.7	57.2	56.4	56.4
10°	58.0	54.9	55.7	55.7
12.5°	55.7	54.9	55.7	56.4
15°	53.4	54.2	55.7	55.7
17.5°	51.9	53.4	54.9	55.7
20°	49.7	52.7	54.9	54.9
22.5°	48.2	51.9	54.2	54.9
25°	46.7	50.4	53.4	54.9
27.5°	44.4	49.7	53.4	54.2
30°	42.1	48.2	52.7	54.9
32.5°	39.9	47.4	52.7	54.2
35°	38.4	46.7	52.7	54.2
37.5°	36.9	45.9	52.7	54.9
40°	36.1	45.2	51.9	54.9
42.5°	34.6	45.2	51.9	54.9
45°	33.9	44.4	51.9	54.9
47.5°	33.1	43.7	51.9	54.9
50°	31.6	42.9	51.2	54.9
52.5°	30.9	42.1	51.2	54.9
55°	29.4	41.4	50.4	54.2
57.5°	28.6	39.9	49.7	52.7
60°	27.1	38.4	48.2	51.2
62.5°	24.8	36.1	45.9	49.7
65°	22.6	33.1	43.7	46.7
67.5°	20.3	30.9	40.6	43.7
70°	18.1	27.8	36.9	39.9
72.5°	15.8	24.1	33.1	35.4
75°	13.5	20.3	27.8	30.9
77.5°	10.5	16.6	23.3	25.6
80°	8.3	13.5	18.1	19.6
82.5°	6.8	9.8	13.5	14.3
85°	4.5	6.0	8.3	9.8
87.5°	2.3	3.0	3.8	4.5
90°	0.0	0.0	0.0	0.0

(END OF REPORT)