

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: P1307915

Luminaire Tested: P3SQAS09R659030DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1307915
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: P3SQAS09R659030DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R65 optic, 3000K CCT AND, 90CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

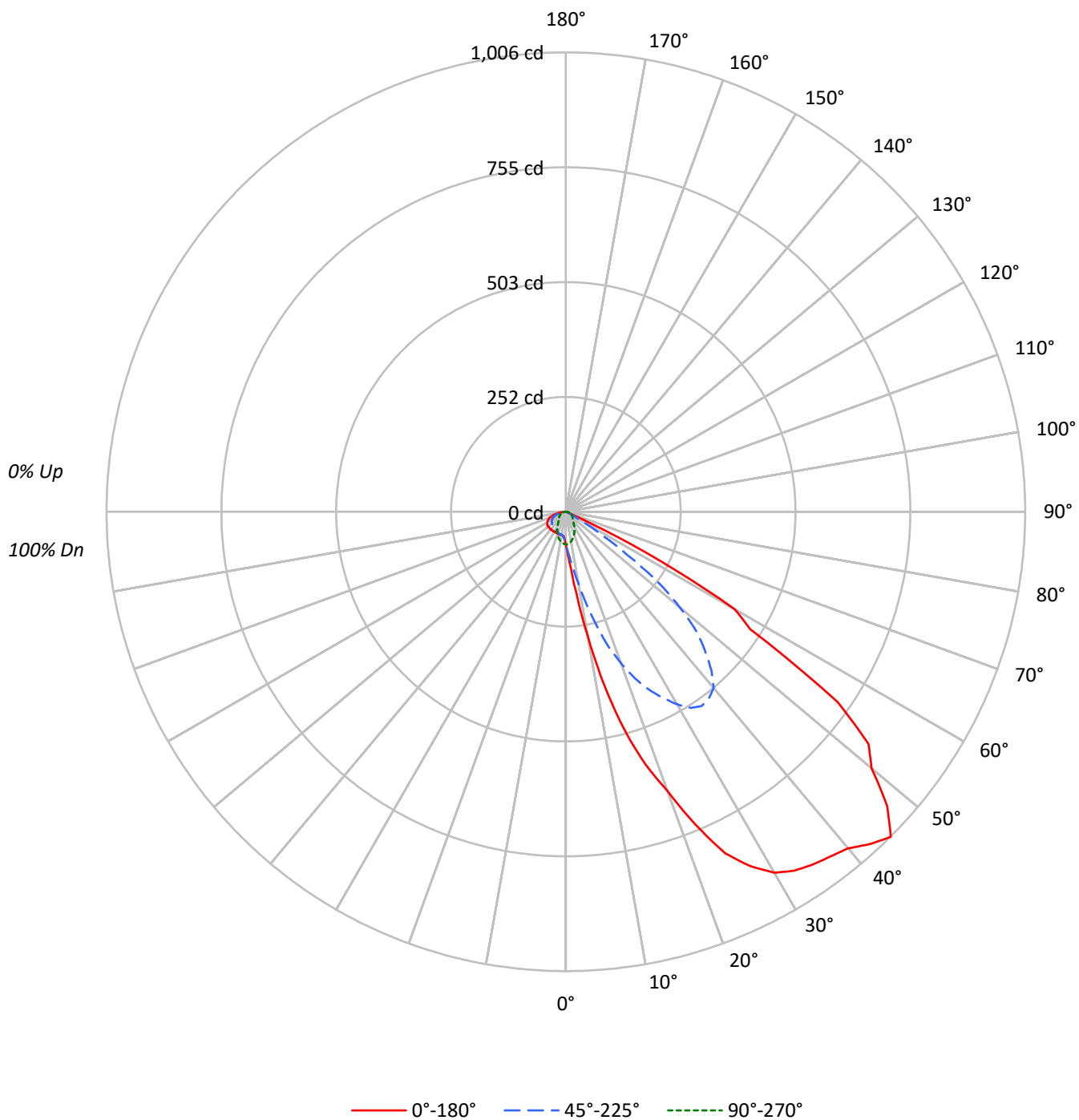
Lumens per Lamp: N/A
Luminaire Lumens: 730.0 lumens
Efficiency: N/A
Efficacy: 65.8 lumens/watt
Spacing Criteria (0/90/45): 3.28 / 0.89 / 2.04
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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			0
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°	12228	12228	12228	12228	12228
5°	21385	17461	12015	9750	9370
10°	48389	28156	11525	8954	9094
15°	87954	45288	10698	9004	9271
20°	119257	64660	9659	8980	9384
25°	156753	81654	8475	8760	9596
30°	181505	96788	7278	8730	10043
35°	198198	109096	6160	8935	10617
40°	216233	113220	5441	9375	11353
45°	245118	104999	5163	9986	12300
50°	234145	87667	5091	10583	13531
55°	218230	49243	5285	11440	14953
60°	146975	10574	5304	12090	16120
65°	22658	2690	5053	12511	17605
70°	2568	2568	4784	12891	18782
75°	2462	2462	4392	12643	18964
80°	2182	2876	4364	11604	18844
85°	1383	2964	4347	11659	17389

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 245118 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.6	1.2
10°-20°	46.4	6.4
20°-30°	109.1	14.9
30°-40°	164.8	22.6
40°-50°	189.4	25.9
50°-60°	150.4	20.6
60°-70°	45.0	6.2
70°-80°	12.2	1.7
80°-90°	4.1	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°	164.1	22.5
0°-40°	328.8	45.0
0°-60°	668.6	91.6
0°-90°	730.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	730.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	71	71	71	71	71	
5°	124	101	70	56	54	17
15°	493	254	60	50	52	142
25°	825	430	45	46	50	377
35°	943	519	29	42	50	592
45°	1006	431	21	41	50	748
55°	727	164	18	38	50	599
65°	56	7	12	31	43	125
75°	4	4	7	19	28	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°	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
2.5°	90.0	90.8	90.0	90.0	89.3	88.6	83.4	77.6	71.0	65.9	62.2
5°	123.7	124.4	122.2	122.2	120.8	118.6	101.0	84.2	69.5	61.5	56.4
7.5°	183.0	185.9	182.3	177.9	169.8	168.3	125.9	90.8	68.1	57.1	52.7
10°	276.7	274.5	270.8	262.0	248.1	241.5	161.0	97.3	65.9	54.2	51.2
12.5°	390.1	384.3	379.9	363.8	344.7	333.8	204.9	103.2	62.9	51.2	50.5
15°	493.3	488.9	478.7	463.3	439.9	431.1	254.0	106.9	60.0	49.0	50.5
17.5°	580.4	576.0	570.2	554.8	530.7	517.5	308.9	109.1	56.4	47.6	49.8
20°	650.7	647.8	639.7	627.3	603.1	590.7	352.8	109.1	52.7	46.1	49.0
22.5°	741.5	734.9	724.6	706.3	676.3	657.3	394.5	106.9	49.0	44.6	47.6
25°	824.9	820.5	807.3	785.4	753.2	734.1	429.7	102.5	44.6	42.5	46.1
27.5°	874.7	871.7	859.3	836.6	800.7	786.1	458.9	95.9	40.3	40.3	45.4
30°	912.7	906.9	894.4	872.5	835.9	818.3	486.7	87.8	36.6	38.1	43.9
32.5°	931.8	929.6	918.6	899.6	863.7	843.9	509.4	77.6	32.2	36.6	43.2
35°	942.7	940.5	931.8	913.5	879.8	860.8	518.9	68.1	29.3	35.1	42.5
37.5°	951.5	949.3	938.4	920.1	886.4	866.6	514.6	57.8	26.4	33.7	41.7
40°	961.8	953.7	936.9	918.6	887.8	868.8	503.6	48.3	24.2	32.9	41.7
42.5°	986.7	958.8	932.5	915.7	886.4	864.4	472.1	38.1	22.0	31.5	41.0
45°	1006.4	957.4	923.7	910.5	880.5	855.6	431.1	27.8	21.2	30.7	41.0
47.5°	954.5	924.4	909.1	901.8	869.6	842.5	388.7	19.0	20.5	30.0	40.3
50°	873.9	870.3	864.4	865.2	835.9	813.9	327.2	13.2	19.0	29.3	39.5
52.5°	835.1	830.8	820.5	813.2	783.9	764.9	259.1	10.2	18.3	28.5	38.8
55°	726.8	729.7	718.8	723.2	714.4	704.9	164.0	9.5	17.6	27.1	38.1
57.5°	478.7	493.3	518.9	549.7	577.5	596.5	88.6	9.5	16.1	26.4	36.6
60°	426.7	423.1	422.3	428.2	440.6	450.9	30.7	8.8	15.4	24.2	35.1
62.5°	233.5	232.0	254.0	291.3	313.3	315.5	8.8	8.8	13.9	22.7	32.9
65°	55.6	57.8	64.4	80.5	95.2	104.7	6.6	8.1	12.4	21.2	30.7
67.5°	8.8	9.5	9.5	11.7	13.2	13.2	5.9	7.3	11.0	19.0	28.5
70°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	6.6	9.5	16.8	25.6
72.5°	4.4	4.4	4.4	4.4	4.4	4.4	5.1	5.9	8.1	14.6	22.0
75°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	5.1	6.6	11.7	19.0
77.5°	2.9	2.9	2.9	2.9	2.9	2.9	3.7	4.4	5.9	9.5	15.4
80°	2.2	2.2	2.2	2.2	2.2	2.2	2.9	3.7	4.4	7.3	11.7
82.5°	1.5	1.5	1.5	1.5	1.5	1.5	2.2	2.9	3.7	5.9	8.8
85°	0.7	0.7	0.7	0.7	1.5	1.5	1.5	2.2	2.2	3.7	5.9
87.5°	0.7	0.7	0.7	0.7	0.7	0.7	1.5	1.5	1.5	2.2	2.9
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°	71.0	71.0
2.5°	60.0	59.3
5°	54.2	54.2
7.5°	52.0	52.0
10°	51.2	52.0
12.5°	51.2	52.0
15°	51.2	52.0
17.5°	51.2	52.0
20°	50.5	51.2
22.5°	49.8	50.5
25°	49.0	50.5
27.5°	48.3	50.5
30°	48.3	50.5
32.5°	48.3	50.5
35°	47.6	50.5
37.5°	47.6	50.5
40°	47.6	50.5
42.5°	47.6	50.5
45°	47.6	50.5
47.5°	47.6	50.5
50°	47.6	50.5
52.5°	46.8	50.5
55°	46.8	49.8
57.5°	45.4	48.3
60°	43.9	46.8
62.5°	42.5	45.4
65°	40.3	43.2
67.5°	38.1	40.3
70°	34.4	37.3
72.5°	30.7	32.9
75°	26.4	28.5
77.5°	22.0	24.2
80°	17.6	19.0
82.5°	12.4	13.9
85°	8.1	8.8
87.5°	3.7	3.7
90°	0.0	0.0

(END OF REPORT)