

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: P1315255

Luminaire Tested: P3SQAS09R609740DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1315255
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: P3SQAS09R609740DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R60 optic, 4000K CCT AND, 97CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

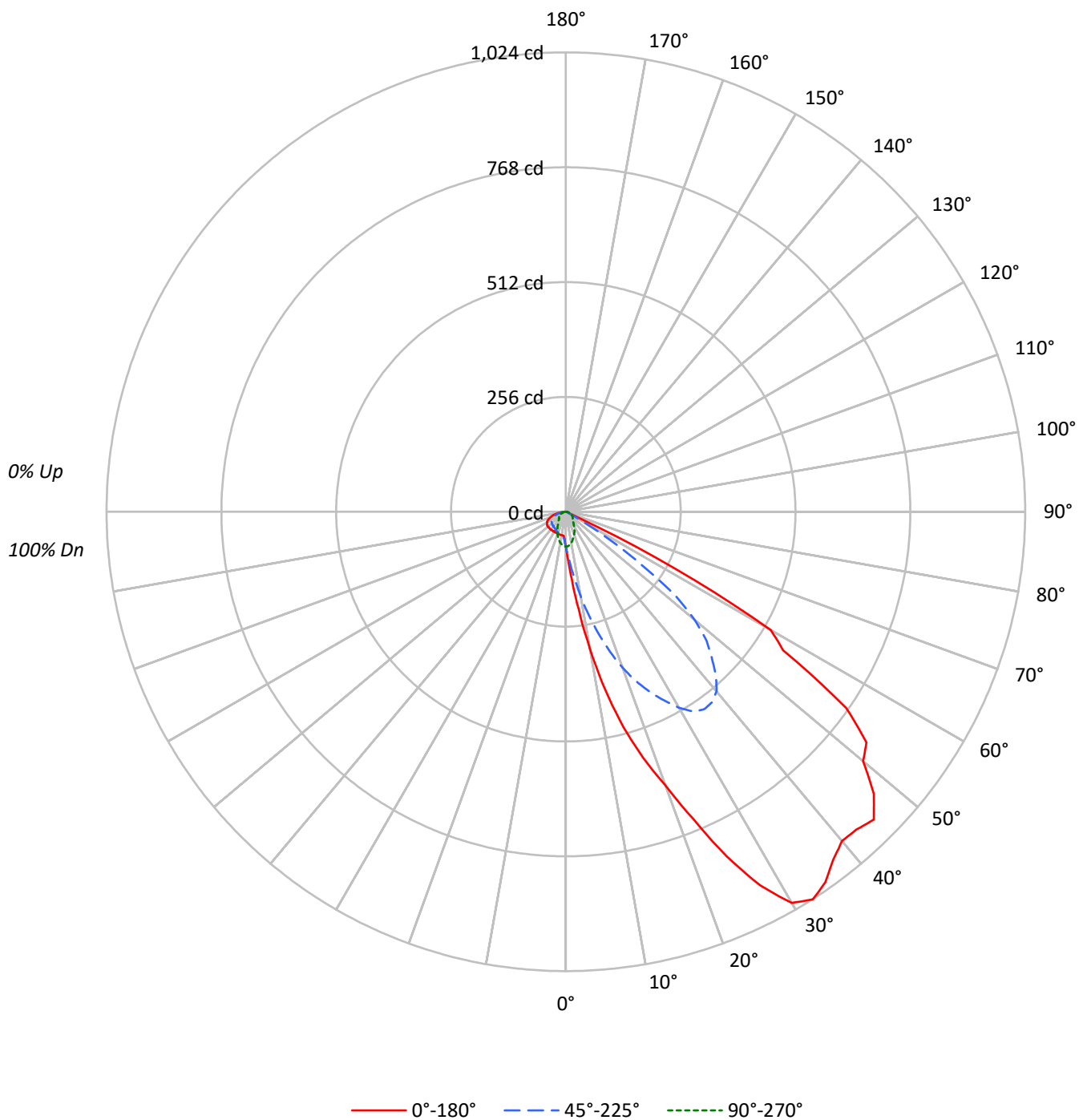
Lumens per Lamp: N/A
Luminaire Lumens: 780.0 lumens
Efficiency: N/A
Efficacy: 70.3 lumens/watt
Spacing Criteria (0/90/45): 3.38 / 0.84 / 2.07
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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			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	93	91	92	90	89	87		
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76	74		
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62		
4	84	72	64	58	82	71	63	57	69	62	56	66	60	56	64	59	55	53		
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45		
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39		
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33		
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29		
9	55	42	33	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25		
10	52	38	30	25	50	38	30	25	37	29	24	36	29	24	35	29	24	22		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	13313	13313	13313	13313	13313
5°	26226	20469	13122	9923	9439
10°	54178	33350	12277	9059	9181
15°	88614	50066	11001	9111	9361
20°	118909	67830	9879	9090	9494
25°	160877	84201	8627	9026	9843
30°	200218	100248	7199	9028	10301
35°	211969	112986	6118	9251	10744
40°	215356	117491	5576	9555	11646
45°	236423	111916	5358	10181	12616
50°	231760	100313	5332	10824	13879
55°	229069	61523	5315	11710	15343
60°	181695	14639	5614	12469	16602
65°	11573	2608	5501	12714	17931
70°	2518	2870	5338	13193	18933
75°	2329	2861	4724	12709	19364
80°	2083	2777	4959	12695	18249
85°	1383	2766	5533	11263	18180

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°

Vertical Angle: 52.5°

Luminance: 249524 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.7	1.2
10°-20°	48.6	6.2
20°-30°	112.8	14.5
30°-40°	175.3	22.5
40°-50°	199.8	25.6
50°-60°	168.3	21.6
60°-70°	48.8	6.3
70°-80°	12.5	1.6
80°-90°	4.2	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°	171.1	21.9
0°-40°	346.4	44.4
0°-60°	714.4	91.6
0°-90°	780.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	780.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	77	77	77	77	77	
5°	152	118	76	57	55	19
15°	497	281	62	51	52	144
25°	847	443	45	48	52	393
35°	1008	537	29	44	51	626
45°	971	460	22	42	52	730
55°	763	205	18	39	51	642
65°	28	6	14	31	44	140
75°	4	4	7	19	29	4
85°	1	1	3	6	9	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°	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3
2.5°	104.2	103.5	103.5	102.8	102.1	101.4	99.3	98.6	94.3	85.8	77.3
5°	151.7	151.0	148.9	148.2	144.6	139.7	134.7	129.8	118.4	94.3	75.9
7.5°	219.8	221.2	219.8	212.0	207.0	199.2	184.3	173.7	151.0	102.8	73.0
10°	309.8	309.8	307.7	295.7	285.0	270.1	251.0	232.6	190.7	110.6	70.2
12.5°	407.7	409.8	399.2	389.3	370.1	351.7	325.4	297.8	236.1	117.0	66.6
15°	497.0	495.6	485.0	472.2	452.4	426.8	399.2	363.7	280.8	121.2	61.7
17.5°	576.4	573.6	564.4	550.2	526.1	497.7	462.3	424.0	326.9	124.8	58.1
20°	648.8	638.8	628.2	613.3	589.9	560.1	523.3	480.0	370.1	124.8	53.9
22.5°	740.2	730.3	715.4	692.7	661.5	624.7	581.4	532.5	408.4	122.0	49.6
25°	846.6	838.8	813.3	784.2	743.8	699.8	649.5	583.5	443.1	117.7	45.4
27.5°	939.5	931.0	905.4	862.9	814.0	761.5	708.3	641.0	473.6	109.9	40.4
30°	1006.8	996.2	976.3	935.9	876.4	812.5	749.4	684.9	504.1	100.7	36.2
32.5°	1024.5	1023.1	1008.2	978.5	925.3	855.1	779.9	709.7	528.2	88.6	32.6
35°	1008.2	1010.4	1007.5	992.6	953.6	884.9	799.8	723.2	537.4	76.6	29.1
37.5°	978.5	981.3	986.3	988.4	963.6	902.6	811.1	728.9	535.3	64.5	26.9
40°	957.9	956.5	956.5	970.7	965.7	910.4	812.5	724.6	522.6	51.8	24.8
42.5°	960.0	944.4	933.8	956.5	963.6	906.8	803.3	713.3	494.9	39.7	22.7
45°	970.7	937.3	918.9	948.0	959.3	894.8	786.3	696.3	459.5	27.7	22.0
47.5°	931.0	909.0	906.1	947.3	951.5	874.2	760.1	669.3	425.4	19.1	20.6
50°	865.0	861.5	876.4	918.9	919.6	840.2	730.3	620.4	374.4	13.5	19.9
52.5°	844.5	846.6	860.1	882.0	861.5	782.8	676.4	579.3	309.8	10.6	19.1
55°	762.9	766.5	779.2	792.7	777.8	712.6	611.2	529.6	204.9	9.9	17.7
57.5°	574.3	583.5	606.9	619.0	620.4	580.7	553.8	456.6	115.6	9.9	17.0
60°	527.5	515.5	504.8	480.0	457.3	452.4	455.2	342.5	42.5	9.2	16.3
62.5°	275.8	270.1	286.4	297.1	299.9	315.5	295.0	180.8	9.2	9.2	14.9
65°	28.4	28.4	34.7	46.1	76.6	102.1	97.1	52.5	6.4	8.5	13.5
67.5°	8.5	8.5	8.5	9.9	12.8	12.8	10.6	7.8	6.4	7.8	12.1
70°	5.0	5.0	5.0	5.0	5.0	5.0	5.7	5.0	5.7	7.1	10.6
72.5°	4.3	4.3	4.3	4.3	5.0	5.0	5.0	5.0	5.0	6.4	9.2
75°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	4.3	4.3	5.0	7.1
77.5°	2.8	2.8	2.8	2.8	2.8	2.8	3.5	3.5	3.5	4.3	5.7
80°	2.1	2.1	2.1	2.1	2.1	2.8	2.8	2.8	2.8	3.5	5.0
82.5°	1.4	1.4	1.4	1.4	2.1	2.1	2.1	2.1	2.1	2.8	3.5
85°	0.7	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.1	2.8
87.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.4	1.4	2.1
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°	77.3	77.3	77.3	77.3
2.5°	70.2	65.2	62.4	61.0
5°	63.8	57.4	55.3	54.6
7.5°	58.1	53.9	53.2	53.2
10°	54.6	51.8	52.5	52.5
12.5°	52.5	51.8	52.5	53.2
15°	50.3	51.1	52.5	52.5
17.5°	48.9	50.3	51.8	52.5
20°	46.8	49.6	51.8	51.8
22.5°	45.4	48.9	51.1	51.8
25°	44.0	47.5	50.3	51.8
27.5°	41.8	46.8	50.3	51.1
30°	39.7	45.4	49.6	51.8
32.5°	37.6	44.7	49.6	51.1
35°	36.2	44.0	49.6	51.1
37.5°	34.7	43.3	49.6	51.8
40°	34.0	42.5	48.9	51.8
42.5°	32.6	42.5	48.9	51.8
45°	31.9	41.8	48.9	51.8
47.5°	31.2	41.1	48.9	51.8
50°	29.8	40.4	48.2	51.8
52.5°	29.1	39.7	48.2	51.8
55°	27.7	39.0	47.5	51.1
57.5°	26.9	37.6	46.8	49.6
60°	25.5	36.2	45.4	48.2
62.5°	23.4	34.0	43.3	46.8
65°	21.3	31.2	41.1	44.0
67.5°	19.1	29.1	38.3	41.1
70°	17.0	26.2	34.7	37.6
72.5°	14.9	22.7	31.2	33.3
75°	12.8	19.1	26.2	29.1
77.5°	9.9	15.6	22.0	24.1
80°	7.8	12.8	17.0	18.4
82.5°	6.4	9.2	12.8	13.5
85°	4.3	5.7	7.8	9.2
87.5°	2.1	2.8	3.5	4.3
90°	0.0	0.0	0.0	0.0

(END OF REPORT)