

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: P1317469

Luminaire Tested: P3SQAS20R559830D010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1317469
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: P3SQAS20R559830D010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R55 optic, 3000K CCT AND, 98CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

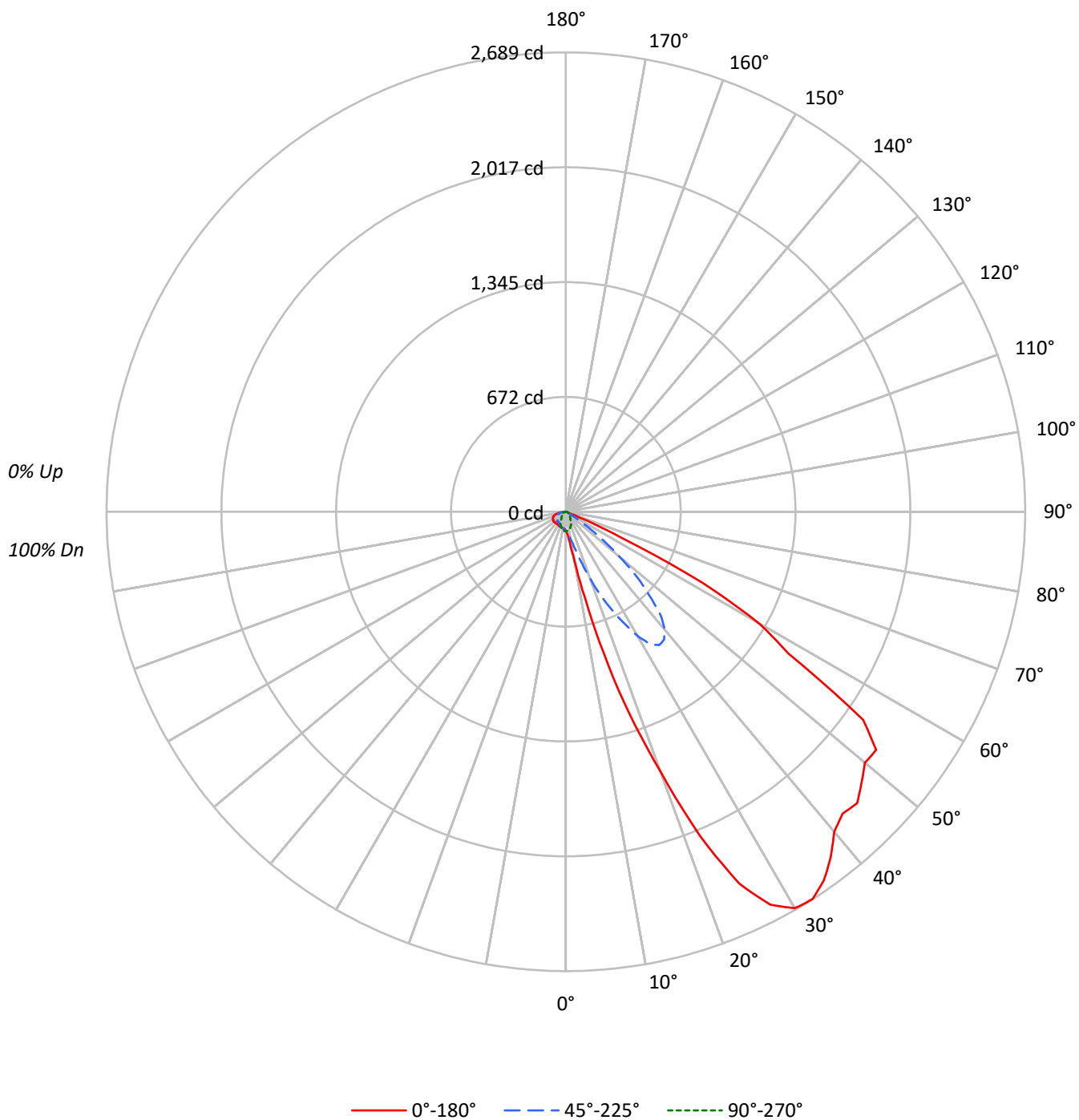
Lumens per Lamp: N/A
Luminaire Lumens: 1729.0 lumens
Efficiency: N/A
Efficacy: 63.1 lumens/watt
Spacing Criteria (0/90/45): 3.76 / 0.91 / 1.95
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 27.4
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	107	104	100	97	99	97	94	95	93	91	92	90	88	86		
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73		
3	91	81	73	67	89	80	72	67	77	71	65	74	69	64	72	67	63	61		
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51		
5	76	63	54	47	74	62	53	47	60	52	47	58	51	46	56	50	46	43		
6	69	56	47	40	68	55	46	40	53	46	40	51	45	39	50	44	39	37		
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	38	34	32		
8	59	45	36	30	57	44	36	30	43	35	30	41	35	29	40	34	29	27		
9	54	40	32	26	53	40	32	26	39	31	26	38	31	26	36	30	26	24		
10	50	37	28	23	49	36	28	23	35	28	23	34	27	23	33	27	23	21		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	19203	19203	19203	19203	19203
5°	24566	22457	19276	17962	17426
10°	49963	28593	18695	17103	17103
15°	153354	43861	17438	16617	17152
20°	296503	76719	15670	16238	17081
25°	456349	119318	13644	15677	17121
30°	532860	166789	11236	15492	17619
35°	553722	200427	9314	15411	18312
40°	549529	202294	8588	16142	19919
45°	587514	167447	8184	17488	21579
50°	612329	110521	8199	18836	24141
55°	637604	48162	8257	20628	26603
60°	450431	11057	8404	22630	30001
65°	146909	3749	8110	24288	33620
70°	4633	3827	8460	26134	38471
75°	4059	4059	7120	27415	42720
80°	3075	4562	7538	27274	45424
85°	2964	6126	9090	27072	45251

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 647856 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.8	0.7
10°-20°	73.4	4.2
20°-30°	246.1	14.2
30°-40°	404.1	23.4
40°-50°	450.8	26.1
50°-60°	379.4	21.9
60°-70°	128.7	7.4
70°-80°	25.2	1.5
80°-90°	9.4	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°	331.3	19.2
0°-40°	735.5	42.5
0°-60°	1565.7	90.6
0°-90°	1729.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1729.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	112	112	112	112	112	
5°	142	130	112	104	101	18
15°	860	246	98	93	96	273
25°	2402	628	72	82	90	1079
35°	2634	953	44	73	87	1635
45°	2412	688	34	72	89	1842
55°	2124	160	28	69	89	1729
65°	360	9	20	60	82	488
75°	6	6	11	41	64	6
85°	2	3	5	14	23	2
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°	111.5	111.5	111.5	111.5	111.5	111.5	111.5	111.5	111.5	111.5	111.5
2.5°	122.2	122.2	122.2	122.2	122.2	122.2	120.7	116.1	113.0	108.5	106.9
5°	142.1	142.1	142.1	140.5	140.5	137.5	129.9	119.2	111.5	105.4	103.9
7.5°	183.3	181.8	178.7	177.2	172.6	171.1	143.6	122.2	110.0	102.4	100.8
10°	285.7	282.6	278.0	261.2	246.0	235.3	163.5	123.7	106.9	99.3	97.8
12.5°	514.8	508.7	485.8	450.7	407.9	386.5	195.5	125.3	102.4	96.2	96.2
15°	860.1	852.4	809.7	760.8	682.9	640.1	246.0	123.7	97.8	91.7	93.2
17.5°	1242.0	1220.6	1176.3	1112.1	1006.7	956.3	320.8	120.7	91.7	88.6	91.7
20°	1617.8	1611.7	1538.4	1451.3	1321.4	1254.2	418.6	116.1	85.5	84.0	88.6
22.5°	2057.8	2031.8	1953.9	1860.7	1682.0	1593.4	524.0	110.0	79.4	79.4	85.5
25°	2401.5	2371.0	2309.8	2201.4	2031.8	1937.1	627.9	102.4	71.8	74.9	82.5
27.5°	2594.0	2558.9	2513.0	2419.8	2288.5	2204.4	731.8	93.2	64.2	70.3	79.4
30°	2679.5	2670.4	2636.8	2568.0	2447.3	2372.5	838.7	82.5	56.5	65.7	77.9
32.5°	2688.7	2693.3	2679.5	2635.2	2543.6	2479.4	918.1	73.3	50.4	62.6	74.9
35°	2633.7	2650.5	2659.7	2641.4	2581.8	2529.8	953.3	62.6	44.3	59.6	73.3
37.5°	2548.2	2578.7	2609.3	2613.9	2577.2	2543.6	944.1	53.5	41.2	58.1	73.3
40°	2444.3	2471.8	2534.4	2574.1	2561.9	2537.5	899.8	44.3	38.2	55.0	71.8
42.5°	2396.9	2403.0	2470.3	2537.5	2534.4	2514.6	821.9	35.1	35.1	55.0	71.8
45°	2412.2	2384.7	2429.0	2506.9	2502.3	2476.4	687.5	27.5	33.6	53.5	71.8
47.5°	2348.0	2309.8	2384.7	2476.4	2459.6	2421.4	568.3	19.9	32.1	51.9	70.3
50°	2285.4	2279.3	2337.3	2383.2	2360.3	2338.9	412.5	15.3	30.6	50.4	70.3
52.5°	2290.0	2279.3	2285.4	2283.9	2238.0	2215.1	282.6	12.2	29.0	48.9	70.3
55°	2123.5	2089.9	2057.8	2066.9	2070.0	2054.7	160.4	10.7	27.5	48.9	68.7
57.5°	1543.0	1533.8	1568.9	1668.2	1746.1	1755.3	77.9	10.7	26.0	47.4	67.2
60°	1307.7	1301.6	1303.1	1332.1	1373.4	1347.4	32.1	10.7	24.4	45.8	65.7
62.5°	901.3	960.9	985.4	1052.6	1025.1	988.4	12.2	12.2	22.9	42.8	64.2
65°	360.5	359.0	392.6	424.7	415.5	388.0	9.2	10.7	19.9	39.7	59.6
67.5°	84.0	76.4	65.7	56.5	47.4	38.2	9.2	10.7	18.3	36.7	56.5
70°	9.2	9.2	9.2	9.2	9.2	7.6	7.6	10.7	16.8	33.6	51.9
72.5°	7.6	7.6	7.6	7.6	7.6	7.6	7.6	9.2	13.7	29.0	47.4
75°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	7.6	10.7	24.4	41.2
77.5°	4.6	4.6	4.6	6.1	4.6	6.1	6.1	7.6	9.2	19.9	35.1
80°	3.1	3.1	4.6	4.6	4.6	4.6	4.6	6.1	7.6	16.8	27.5
82.5°	3.1	3.1	3.1	3.1	3.1	3.1	4.6	4.6	6.1	12.2	19.9
85°	1.5	1.5	1.5	1.5	1.5	3.1	3.1	4.6	4.6	9.2	13.7
87.5°	1.5	1.5	1.5	1.5	1.5	1.5	3.1	3.1	4.6	4.6	6.1
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):

	157.5°	180°
0°	111.5	111.5
2.5°	105.4	105.4
5°	102.4	100.8
7.5°	99.3	99.3
10°	97.8	97.8
12.5°	96.2	97.8
15°	96.2	96.2
17.5°	93.2	94.7
20°	91.7	93.2
22.5°	90.1	91.7
25°	88.6	90.1
27.5°	87.1	88.6
30°	85.5	88.6
32.5°	84.0	87.1
35°	84.0	87.1
37.5°	84.0	88.6
40°	84.0	88.6
42.5°	84.0	88.6
45°	84.0	88.6
47.5°	84.0	88.6
50°	84.0	90.1
52.5°	84.0	90.1
55°	84.0	88.6
57.5°	82.5	88.6
60°	82.5	87.1
62.5°	81.0	85.5
65°	77.9	82.5
67.5°	74.9	81.0
70°	70.3	76.4
72.5°	65.7	70.3
75°	59.6	64.2
77.5°	51.9	55.0
80°	41.2	45.8
82.5°	32.1	35.1
85°	21.4	22.9
87.5°	9.2	10.7
90°	0.0	0.0

(END OF REPORT)