

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: P1311692

Luminaire Tested: P3SQAS20R609050D010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1311692
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: P3SQAS20R609050D010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R60 optic, 5000K CCT AND, 90CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

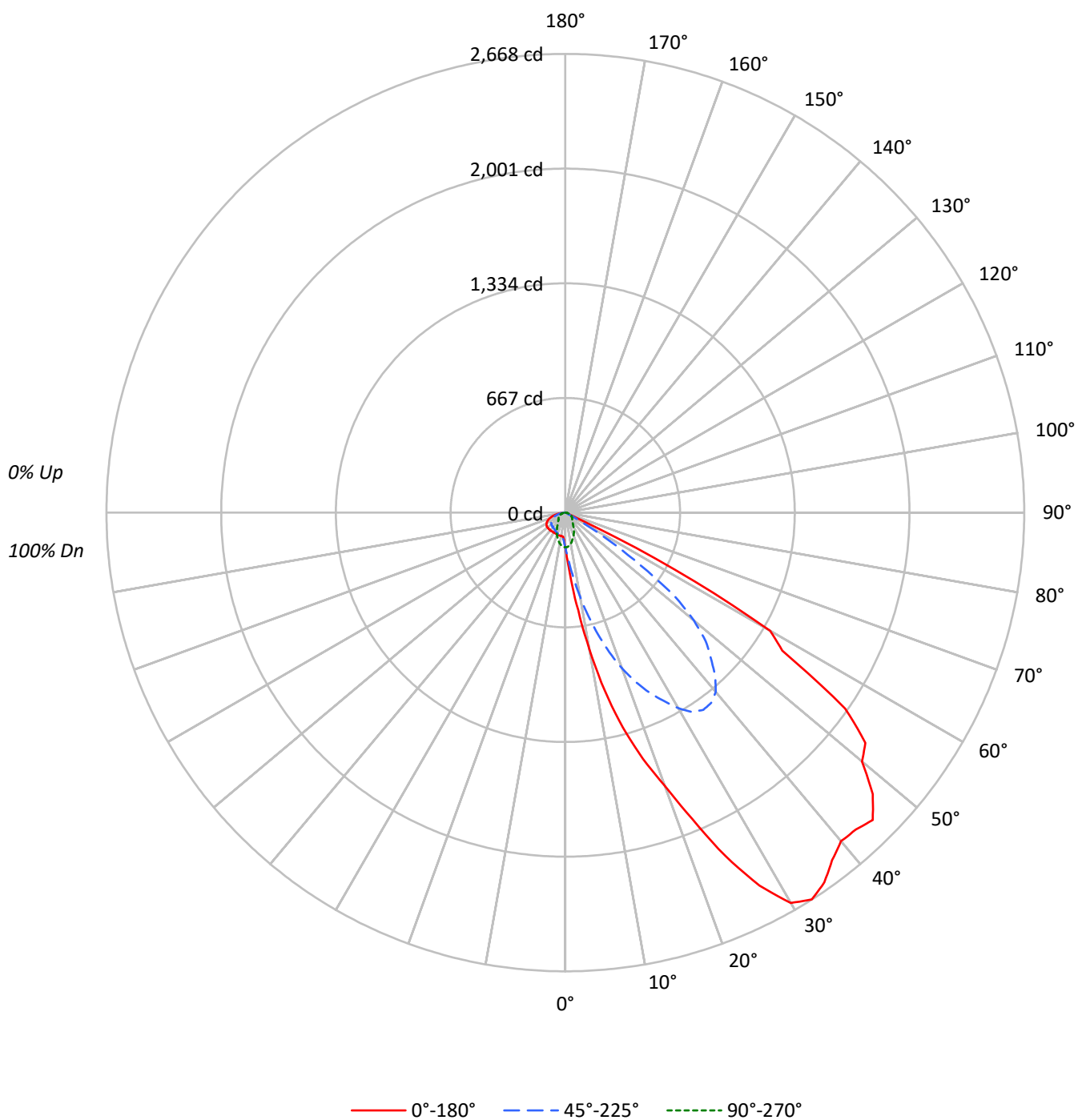
Lumens per Lamp: N/A
Luminaire Lumens: 2031.0 lumens
Efficiency: N/A
Efficacy: 70.5 lumens/watt
Spacing Criteria (0/90/45): 3.38 / 0.84 / 2.07
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 28.8
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°	34651	34651	34651	34651	34651
5°	68305	53299	34144	25846	24584
10°	141093	86845	31968	23574	23889
15°	230753	130354	28635	23696	24356
20°	309607	176623	25714	23679	24706
25°	418895	219272	22461	23506	25616
30°	521346	261051	18733	23506	26807
35°	551956	294217	15916	24073	27942
40°	560748	305914	14523	24910	30306
45°	615597	291370	13932	26524	32832
50°	603487	261179	13852	28186	36117
55°	596468	160219	13872	30476	39905
60°	473130	38165	14639	32447	43228
65°	30074	6765	14304	33090	46660
70°	6496	7452	13948	34392	49247
75°	6122	7386	12310	33138	50372
80°	5455	7339	12794	32927	47606
85°	3557	7311	14623	29245	47425

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°

Vertical Angle: 52.5°

Luminance: 649752 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.1	1.2
10°-20°	126.6	6.2
20°-30°	293.7	14.5
30°-40°	456.5	22.5
40°-50°	520.2	25.6
50°-60°	438.1	21.6
60°-70°	127.1	6.3
70°-80°	32.6	1.6
80°-90°	11.0	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°	445.4	21.9
0°-40°	902.0	44.4
0°-60°	1860.3	91.6
0°-90°	2031.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2031.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	201	201	201	201	201	
5°	395	308	198	150	142	51
15°	1294	731	161	133	137	374
25°	2204	1154	118	124	135	1024
35°	2625	1399	76	114	133	1631
45°	2528	1196	57	109	135	1900
55°	1986	534	46	102	133	1671
65°	74	17	35	81	114	365
75°	9	11	18	50	76	10
85°	2	4	7	15	24	3
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°	201.2	201.2	201.2	201.2	201.2	201.2	201.2	201.2	201.2	201.2	201.2
2.5°	271.4	269.5	269.5	267.7	265.9	264.0	258.5	256.6	245.5	223.4	201.2
5°	395.1	393.2	387.7	385.9	376.6	363.7	350.8	337.9	308.3	245.5	197.5
7.5°	572.3	576.0	572.3	552.0	539.1	518.8	480.0	452.3	393.2	267.7	190.2
10°	806.8	806.8	801.3	769.9	742.2	703.4	653.6	605.6	496.6	288.0	182.8
12.5°	1061.6	1067.1	1039.4	1013.6	963.7	915.7	847.4	775.4	614.8	304.6	173.5
15°	1294.2	1290.5	1262.8	1229.6	1177.9	1111.4	1039.4	947.1	731.1	315.7	160.6
17.5°	1501.0	1493.6	1469.6	1432.7	1369.9	1296.0	1203.7	1104.0	851.1	324.9	151.4
20°	1689.3	1663.4	1635.7	1597.0	1536.0	1458.5	1362.5	1249.9	963.7	324.9	140.3
22.5°	1927.4	1901.6	1862.8	1803.7	1722.5	1626.5	1513.9	1386.5	1063.4	317.5	129.2
25°	2204.4	2184.1	2117.6	2041.9	1936.7	1822.2	1691.1	1519.4	1153.9	306.5	118.2
27.5°	2446.2	2424.1	2357.6	2246.8	2119.4	1982.8	1844.4	1669.0	1233.3	286.2	105.2
30°	2621.6	2593.9	2542.2	2437.0	2281.9	2115.8	1951.4	1783.4	1312.7	262.2	94.2
32.5°	2667.8	2664.1	2625.3	2547.8	2409.3	2226.5	2030.8	1848.1	1375.4	230.8	84.9
35°	2625.3	2630.8	2623.5	2584.7	2483.1	2304.1	2082.5	1883.1	1399.4	199.4	75.7
37.5°	2547.8	2555.1	2568.1	2573.6	2509.0	2350.2	2112.1	1897.9	1393.9	168.0	70.2
40°	2494.2	2490.5	2490.5	2527.5	2514.5	2370.5	2115.8	1886.8	1360.7	134.8	64.6
42.5°	2499.8	2459.1	2431.5	2490.5	2509.0	2361.3	2091.8	1857.3	1288.7	103.4	59.1
45°	2527.5	2440.7	2392.7	2468.4	2497.9	2329.9	2047.4	1813.0	1196.3	72.0	57.2
47.5°	2424.1	2366.8	2359.5	2466.5	2477.6	2276.4	1979.1	1742.8	1107.7	49.8	53.5
50°	2252.4	2243.1	2281.9	2392.7	2394.5	2187.8	1901.6	1615.4	974.8	35.1	51.7
52.5°	2198.8	2204.4	2239.4	2296.7	2243.1	2038.2	1761.3	1508.4	806.8	27.7	49.8
55°	1986.5	1995.7	2029.0	2064.1	2025.3	1855.4	1591.4	1379.1	533.6	25.8	46.2
57.5°	1495.4	1519.4	1580.4	1611.7	1615.4	1512.0	1441.9	1189.0	300.9	25.8	44.3
60°	1373.6	1342.2	1314.5	1249.9	1190.8	1177.9	1185.3	891.7	110.8	24.0	42.5
62.5°	718.2	703.4	745.9	773.6	780.9	821.6	768.0	470.8	24.0	24.0	38.8
65°	73.8	73.8	90.5	120.0	199.4	265.9	252.9	136.6	16.6	22.2	35.1
67.5°	22.2	22.2	22.2	25.8	33.2	33.2	27.7	20.3	16.6	20.3	31.4
70°	12.9	12.9	12.9	12.9	12.9	12.9	14.8	12.9	14.8	18.5	27.7
72.5°	11.1	11.1	11.1	11.1	12.9	12.9	12.9	12.9	12.9	16.6	24.0
75°	9.2	9.2	9.2	9.2	9.2	9.2	9.2	11.1	11.1	12.9	18.5
77.5°	7.4	7.4	7.4	7.4	7.4	7.4	9.2	9.2	9.2	11.1	14.8
80°	5.5	5.5	5.5	5.5	5.5	7.4	7.4	7.4	7.4	9.2	12.9
82.5°	3.7	3.7	3.7	3.7	5.5	5.5	5.5	5.5	5.5	7.4	9.2
85°	1.8	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	5.5	7.4
87.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	3.7	3.7	5.5
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°	201.2	201.2	201.2	201.2
2.5°	182.8	169.9	162.5	158.8
5°	166.2	149.5	144.0	142.2
7.5°	151.4	140.3	138.5	138.5
10°	142.2	134.8	136.6	136.6
12.5°	136.6	134.8	136.6	138.5
15°	131.1	132.9	136.6	136.6
17.5°	127.4	131.1	134.8	136.6
20°	121.8	129.2	134.8	134.8
22.5°	118.2	127.4	132.9	134.8
25°	114.5	123.7	131.1	134.8
27.5°	108.9	121.8	131.1	132.9
30°	103.4	118.2	129.2	134.8
32.5°	97.8	116.3	129.2	132.9
35°	94.2	114.5	129.2	132.9
37.5°	90.5	112.6	129.2	134.8
40°	88.6	110.8	127.4	134.8
42.5°	84.9	110.8	127.4	134.8
45°	83.1	108.9	127.4	134.8
47.5°	81.2	107.1	127.4	134.8
50°	77.5	105.2	125.5	134.8
52.5°	75.7	103.4	125.5	134.8
55°	72.0	101.5	123.7	132.9
57.5°	70.2	97.8	121.8	129.2
60°	66.5	94.2	118.2	125.5
62.5°	60.9	88.6	112.6	121.8
65°	55.4	81.2	107.1	114.5
67.5°	49.8	75.7	99.7	107.1
70°	44.3	68.3	90.5	97.8
72.5°	38.8	59.1	81.2	86.8
75°	33.2	49.8	68.3	75.7
77.5°	25.8	40.6	57.2	62.8
80°	20.3	33.2	44.3	48.0
82.5°	16.6	24.0	33.2	35.1
85°	11.1	14.8	20.3	24.0
87.5°	5.5	7.4	9.2	11.1
90°	0.0	0.0	0.0	0.0

(END OF REPORT)