

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: P1308379

Luminaire Tested: P3SQAS20R609030D010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1308379
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: P3SQAS20R609030D010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R60 optic, 3000K CCT AND, 90CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

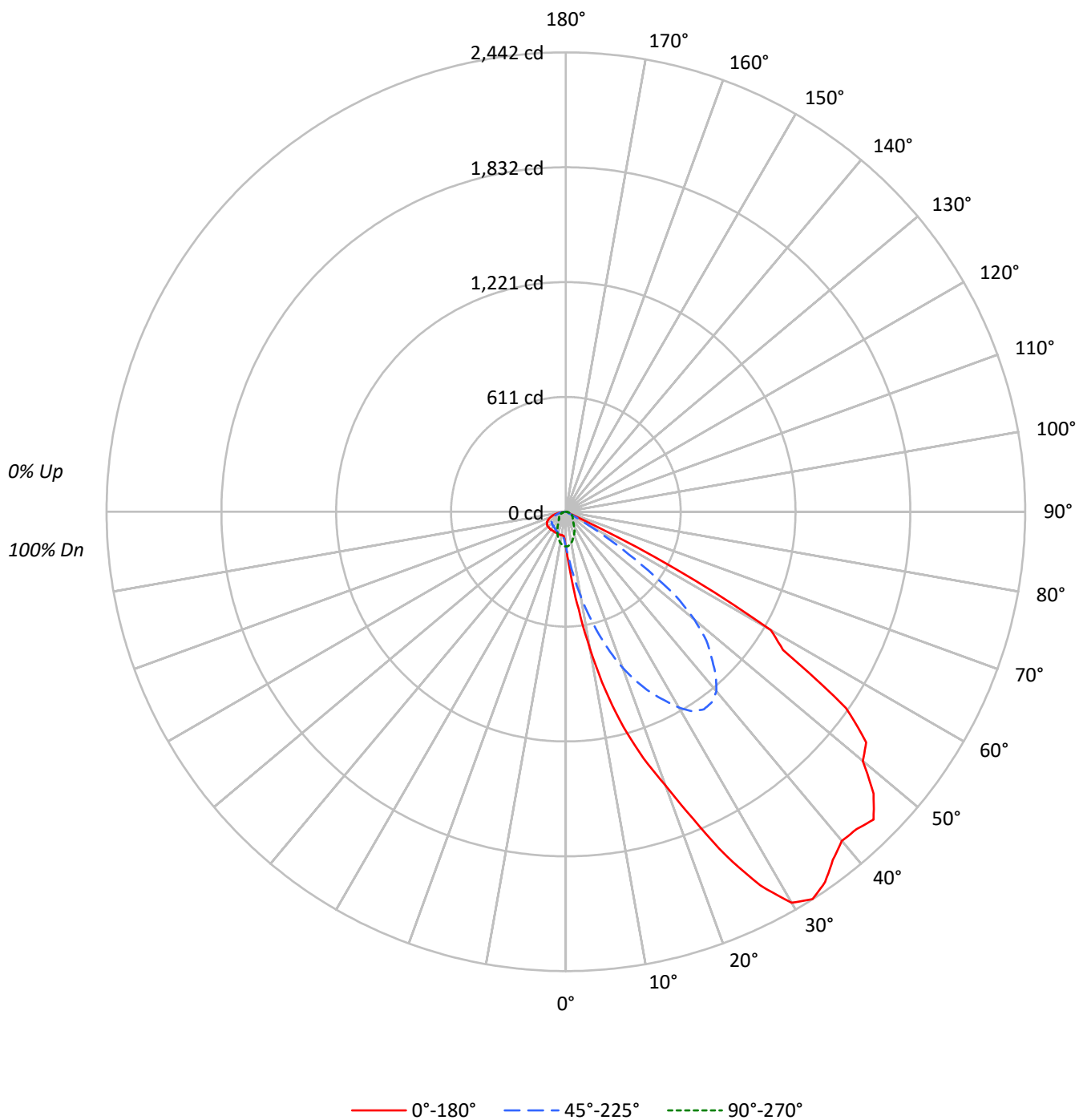
Lumens per Lamp: N/A
Luminaire Lumens: 1859.0 lumens
Efficiency: N/A
Efficacy: 64.5 lumens/watt
Spacing Criteria (0/90/45): 3.38 / 0.84 / 2.07
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1308379

CATALOG NUMBER: P3SQAS20R609030D010 E3SQCA451MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1308379

CATALOG NUMBER: P3SQAS20R609030D010 E3SQCA451MMS

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°	31723	31723	31723	31723	31723
5°	62514	48787	31257	23667	22492
10°	129148	79500	29257	21580	21860
15°	211212	119317	26210	21699	22287
20°	283381	161667	23533	21681	22616
25°	383417	200706	20561	21511	23449
30°	477198	238937	17142	21517	24540
35°	505219	269303	14570	22034	25587
40°	513266	279992	13287	22797	27743
45°	563451	266698	12763	24283	30055
50°	552366	239048	12673	25802	33063
55°	545965	146647	12671	27894	36542
60°	433071	34927	13399	29691	39577
65°	27548	6194	13081	30319	42707
70°	5942	6798	12740	31472	45118
75°	5590	6721	11246	30343	46113
80°	5058	6744	11703	30150	43540
85°	3359	6719	13437	26676	43473

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°

Vertical Angle: 52.5°

Luminance: 594726 cd/sqm

TEST NUMBER: P1308379

CATALOG NUMBER: P3SQAS20R609030D010 E3SQCA451MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.0	1.2
10°-20°	115.9	6.2
20°-30°	268.8	14.5
30°-40°	417.9	22.5
40°-50°	476.2	25.6
50°-60°	401.0	21.6
60°-70°	116.4	6.3
70°-80°	29.8	1.6
80°-90°	10.1	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°	407.7	21.9
0°-40°	825.6	44.4
0°-60°	1702.8	91.6
0°-90°	1859.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1859.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	184	184	184	184	184	
5°	362	282	181	137	130	46
15°	1185	669	147	122	125	343
25°	2018	1056	108	113	123	937
35°	2403	1281	69	105	122	1493
45°	2313	1095	52	100	123	1739
55°	1818	488	42	93	122	1530
65°	68	15	32	74	105	334
75°	8	10	17	46	69	9
85°	2	3	7	14	22	3
90°	0	0	0	0	0	

TEST NUMBER: P1308379

CATALOG NUMBER: P3SQAS20R609030D010 E3SQCA451MMS

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	184.2	184.2	184.2	184.2	184.2	184.2	184.2	184.2	184.2	184.2	184.2
2.5°	248.4	246.7	246.7	245.0	243.3	241.6	236.6	234.9	224.8	204.5	184.2
5°	361.6	359.9	354.9	353.2	344.7	332.9	321.1	309.2	282.2	224.8	180.8
7.5°	523.9	527.2	523.9	505.3	493.4	474.8	439.4	414.0	359.9	245.0	174.1
10°	738.5	738.5	733.4	704.7	679.3	643.8	598.2	554.3	454.6	263.6	167.3
12.5°	971.7	976.7	951.4	927.7	882.1	838.2	775.6	709.7	562.7	278.8	158.8
15°	1184.6	1181.2	1155.9	1125.4	1078.1	1017.3	951.4	866.9	669.2	289.0	147.0
17.5°	1373.9	1367.1	1345.1	1311.3	1253.9	1186.3	1101.8	1010.5	779.0	297.4	138.6
20°	1546.2	1522.6	1497.2	1461.7	1406.0	1335.0	1247.1	1144.0	882.1	297.4	128.4
22.5°	1764.2	1740.6	1705.1	1651.0	1576.6	1488.8	1385.7	1269.1	973.4	290.7	118.3
25°	2017.7	1999.1	1938.3	1869.0	1772.7	1667.9	1547.9	1390.8	1056.2	280.5	108.2
27.5°	2239.1	2218.8	2157.9	2056.6	1940.0	1814.9	1688.2	1527.6	1128.8	261.9	96.3
30°	2399.6	2374.2	2326.9	2230.6	2088.7	1936.6	1786.2	1632.4	1201.5	240.0	86.2
32.5°	2441.8	2438.5	2403.0	2332.0	2205.3	2038.0	1858.8	1691.5	1258.9	211.2	77.7
35°	2403.0	2408.0	2401.3	2365.8	2272.9	2108.9	1906.2	1723.7	1280.9	182.5	69.3
37.5°	2332.0	2338.8	2350.6	2355.7	2296.5	2151.2	1933.2	1737.2	1275.8	153.8	64.2
40°	2283.0	2279.6	2279.6	2313.4	2301.6	2169.8	1936.6	1727.0	1245.4	123.4	59.1
42.5°	2288.1	2250.9	2225.5	2279.6	2296.5	2161.3	1914.6	1700.0	1179.5	94.6	54.1
45°	2313.4	2234.0	2190.1	2259.3	2286.4	2132.6	1874.0	1659.4	1095.0	65.9	52.4
47.5°	2218.8	2166.4	2159.6	2257.6	2267.8	2083.6	1811.5	1595.2	1013.9	45.6	49.0
50°	2061.6	2053.2	2088.7	2190.1	2191.7	2002.5	1740.6	1478.6	892.2	32.1	47.3
52.5°	2012.6	2017.7	2049.8	2102.2	2053.2	1865.6	1612.1	1380.6	738.5	25.3	45.6
55°	1818.3	1826.7	1857.2	1889.3	1853.8	1698.3	1456.7	1262.3	488.4	23.7	42.2
57.5°	1368.8	1390.8	1446.5	1475.2	1478.6	1384.0	1319.8	1088.3	275.4	23.7	40.6
60°	1257.3	1228.5	1203.2	1144.0	1090.0	1078.1	1084.9	816.2	101.4	22.0	38.9
62.5°	657.4	643.8	682.7	708.0	714.8	752.0	703.0	430.9	22.0	22.0	35.5
65°	67.6	67.6	82.8	109.8	182.5	243.3	231.5	125.0	15.2	20.3	32.1
67.5°	20.3	20.3	20.3	23.7	30.4	30.4	25.3	18.6	15.2	18.6	28.7
70°	11.8	11.8	11.8	11.8	11.8	11.8	13.5	11.8	13.5	16.9	25.3
72.5°	10.1	10.1	10.1	10.1	11.8	11.8	11.8	11.8	11.8	15.2	22.0
75°	8.4	8.4	8.4	8.4	8.4	8.4	8.4	10.1	10.1	11.8	16.9
77.5°	6.8	6.8	6.8	6.8	6.8	6.8	8.4	8.4	8.4	10.1	13.5
80°	5.1	5.1	5.1	5.1	5.1	6.8	6.8	6.8	6.8	8.4	11.8
82.5°	3.4	3.4	3.4	3.4	5.1	5.1	5.1	5.1	5.1	6.8	8.4
85°	1.7	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	5.1	6.8
87.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	3.4	3.4	5.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1308379

CATALOG NUMBER: P3SQAS20R609030D010 E3SQCA451MMS

CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
0°	184.2	184.2	184.2	184.2
2.5°	167.3	155.5	148.7	145.3
5°	152.1	136.9	131.8	130.1
7.5°	138.6	128.4	126.7	126.7
10°	130.1	123.4	125.0	125.0
12.5°	125.0	123.4	125.0	126.7
15°	120.0	121.7	125.0	125.0
17.5°	116.6	120.0	123.4	125.0
20°	111.5	118.3	123.4	123.4
22.5°	108.2	116.6	121.7	123.4
25°	104.8	113.2	120.0	123.4
27.5°	99.7	111.5	120.0	121.7
30°	94.6	108.2	118.3	123.4
32.5°	89.6	106.5	118.3	121.7
35°	86.2	104.8	118.3	121.7
37.5°	82.8	103.1	118.3	123.4
40°	81.1	101.4	116.6	123.4
42.5°	77.7	101.4	116.6	123.4
45°	76.0	99.7	116.6	123.4
47.5°	74.4	98.0	116.6	123.4
50°	71.0	96.3	114.9	123.4
52.5°	69.3	94.6	114.9	123.4
55°	65.9	92.9	113.2	121.7
57.5°	64.2	89.6	111.5	118.3
60°	60.8	86.2	108.2	114.9
62.5°	55.8	81.1	103.1	111.5
65°	50.7	74.4	98.0	104.8
67.5°	45.6	69.3	91.3	98.0
70°	40.6	62.5	82.8	89.6
72.5°	35.5	54.1	74.4	79.4
75°	30.4	45.6	62.5	69.3
77.5°	23.7	37.2	52.4	57.5
80°	18.6	30.4	40.6	43.9
82.5°	15.2	22.0	30.4	32.1
85°	10.1	13.5	18.6	22.0
87.5°	5.1	6.8	8.4	10.1
90°	0.0	0.0	0.0	0.0

(END OF REPORT)