

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: P1309498

Luminaire Tested: P3SQAS20R609035D010 E3SQCA451MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1309498
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: P3SQAS20R609035D010 E3SQCA451MW
Description: 3in Adjustable LED luminaire with, R60 optic, 3500K CCT AND, 90CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

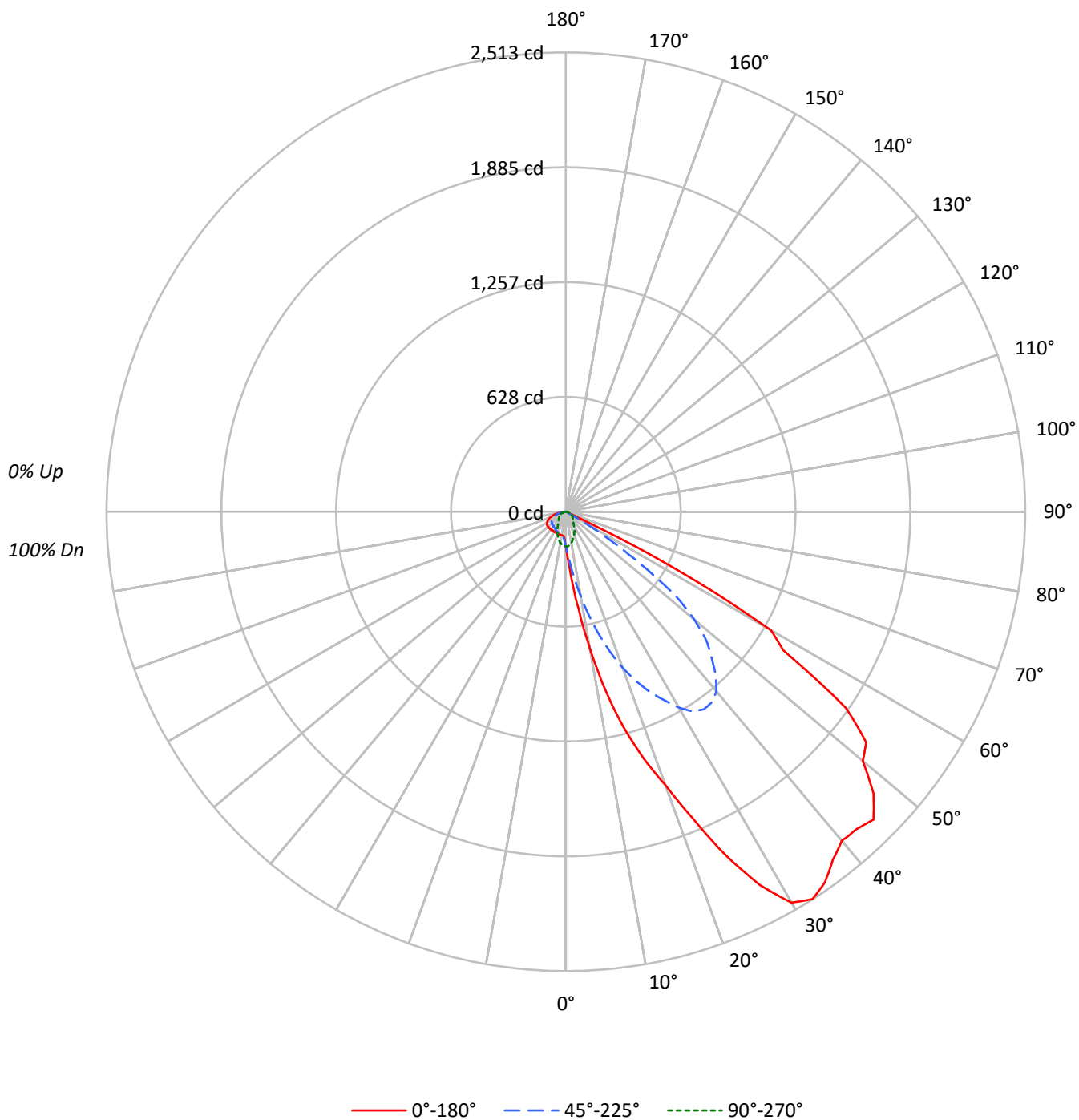
Lumens per Lamp: N/A
Luminaire Lumens: 1913.0 lumens
Efficiency: N/A
Efficacy: 66.4 lumens/watt
Spacing Criteria (0/90/45): 3.38 / 0.84 / 2.07
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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
RW	70	50	30	10	70	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
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64
4	84	72	64	58	82	71	63	57	69	62	56	66	60	56	64	59	55
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31
9	55	42	33	28	54	41	33	28	40	33	28	39	32	27	38	32	27
10	52	38	30	25	50	38	30	25	37	29	24	36	29	24	35	29	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	32636	32636	32636	32636	32636
5°	64329	50204	32173	24359	23149
10°	132891	81809	30114	22192	22507
15°	217345	122776	26976	22323	22947
20°	291610	166359	24229	22305	23258
25°	394552	206521	21150	22138	24114
30°	491059	245877	17639	22134	25236
35°	519894	277124	14990	22664	26323
40°	528171	288130	13692	23449	28530
45°	579818	274443	13128	24989	30908
50°	568415	246014	13048	26552	34000
55°	561818	150911	13061	28705	37593
60°	445643	35926	13778	30552	40713
65°	28363	6398	13448	31175	43930
70°	6143	6999	13143	32378	46427
75°	5789	6920	11578	31275	47444
80°	5157	6943	12100	31043	44829
85°	3359	6916	13832	27467	44658

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°

Vertical Angle: 52.5°

Luminance: 611984 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.7	1.2
10°-20°	119.3	6.2
20°-30°	276.6	14.5
30°-40°	430.0	22.5
40°-50°	490.0	25.6
50°-60°	412.7	21.6
60°-70°	119.7	6.3
70°-80°	30.7	1.6
80°-90°	10.4	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°	419.5	21.9
0°-40°	849.5	44.4
0°-60°	1752.2	91.6
0°-90°	1913.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1913.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	190	190	190	190	190	
5°	372	290	186	141	134	48
15°	1219	689	151	125	129	353
25°	2076	1087	111	116	127	964
35°	2473	1318	71	108	125	1536
45°	2381	1127	54	103	127	1790
55°	1871	503	44	96	125	1574
65°	70	16	33	76	108	344
75°	9	10	17	47	71	9
85°	2	4	7	14	23	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°	189.5	189.5	189.5	189.5	189.5	189.5	189.5	189.5	189.5	189.5	189.5
2.5°	255.6	253.9	253.9	252.1	250.4	248.7	243.5	241.7	231.3	210.4	189.5
5°	372.1	370.4	365.2	363.4	354.7	342.6	330.4	318.2	290.4	231.3	186.1
7.5°	539.1	542.5	539.1	519.9	507.8	488.6	452.1	426.0	370.4	252.1	179.1
10°	759.9	759.9	754.7	725.1	699.1	662.5	615.6	570.4	467.8	271.3	172.2
12.5°	999.9	1005.1	979.0	954.7	907.7	862.5	798.2	730.4	579.1	286.9	163.5
15°	1219.0	1215.5	1189.4	1158.1	1109.4	1046.8	979.0	892.1	688.6	297.4	151.3
17.5°	1413.8	1406.8	1384.2	1349.4	1290.3	1220.7	1133.8	1039.9	801.7	306.1	142.6
20°	1591.1	1566.8	1540.7	1504.2	1446.8	1373.8	1283.3	1177.3	907.7	306.1	132.2
22.5°	1815.5	1791.1	1754.6	1698.9	1622.4	1532.0	1425.9	1305.9	1001.6	299.1	121.7
25°	2076.3	2057.2	1994.6	1923.3	1824.2	1716.3	1592.9	1431.1	1086.8	288.7	111.3
27.5°	2304.1	2283.2	2220.6	2116.3	1996.3	1867.6	1737.2	1572.0	1161.6	269.5	99.1
30°	2469.3	2443.2	2394.5	2295.4	2149.3	1992.8	1838.1	1679.8	1236.4	246.9	88.7
32.5°	2512.8	2509.3	2472.8	2399.7	2269.3	2097.2	1912.8	1740.7	1295.5	217.4	80.0
35°	2472.8	2478.0	2471.0	2434.5	2338.9	2170.2	1961.5	1773.7	1318.1	187.8	71.3
37.5°	2399.7	2406.7	2418.9	2424.1	2363.2	2213.7	1989.3	1787.6	1312.9	158.2	66.1
40°	2349.3	2345.8	2345.8	2380.6	2368.4	2232.8	1992.8	1777.2	1281.6	126.9	60.9
42.5°	2354.5	2316.3	2290.2	2345.8	2363.2	2224.1	1970.2	1749.4	1213.8	97.4	55.6
45°	2380.6	2298.9	2253.7	2325.0	2352.8	2194.5	1928.5	1707.6	1126.8	67.8	53.9
47.5°	2283.2	2229.3	2222.4	2323.2	2333.7	2144.1	1864.1	1641.6	1043.4	47.0	50.4
50°	2121.5	2112.8	2149.3	2253.7	2255.4	2060.6	1791.1	1521.6	918.2	33.0	48.7
52.5°	2071.1	2076.3	2109.3	2163.2	2112.8	1919.8	1659.0	1420.7	759.9	26.1	47.0
55°	1871.1	1879.8	1911.1	1944.1	1907.6	1747.6	1499.0	1299.0	502.6	24.3	43.5
57.5°	1408.5	1431.1	1488.5	1518.1	1521.6	1424.2	1358.1	1119.9	283.4	24.3	41.7
60°	1293.8	1264.2	1238.1	1177.3	1121.6	1109.4	1116.4	839.9	104.3	22.6	40.0
62.5°	676.4	662.5	702.5	728.6	735.6	773.8	723.4	443.4	22.6	22.6	36.5
65°	69.6	69.6	85.2	113.0	187.8	250.4	238.2	128.7	15.7	20.9	33.0
67.5°	20.9	20.9	20.9	24.3	31.3	31.3	26.1	19.1	15.7	19.1	29.6
70°	12.2	12.2	12.2	12.2	12.2	12.2	13.9	12.2	13.9	17.4	26.1
72.5°	10.4	10.4	10.4	10.4	12.2	12.2	12.2	12.2	12.2	15.7	22.6
75°	8.7	8.7	8.7	8.7	8.7	8.7	8.7	10.4	10.4	12.2	17.4
77.5°	7.0	7.0	7.0	7.0	7.0	7.0	8.7	8.7	8.7	10.4	13.9
80°	5.2	5.2	5.2	5.2	5.2	7.0	7.0	7.0	7.0	8.7	12.2
82.5°	3.5	3.5	3.5	3.5	5.2	5.2	5.2	5.2	5.2	7.0	8.7
85°	1.7	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	5.2	7.0
87.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	3.5	3.5	5.2
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°	189.5	189.5	189.5	189.5
2.5°	172.2	160.0	153.0	149.5
5°	156.5	140.9	135.6	133.9
7.5°	142.6	132.2	130.4	130.4
10°	133.9	126.9	128.7	128.7
12.5°	128.7	126.9	128.7	130.4
15°	123.5	125.2	128.7	128.7
17.5°	120.0	123.5	126.9	128.7
20°	114.8	121.7	126.9	126.9
22.5°	111.3	120.0	125.2	126.9
25°	107.8	116.5	123.5	126.9
27.5°	102.6	114.8	123.5	125.2
30°	97.4	111.3	121.7	126.9
32.5°	92.2	109.6	121.7	125.2
35°	88.7	107.8	121.7	125.2
37.5°	85.2	106.1	121.7	126.9
40°	83.5	104.3	120.0	126.9
42.5°	80.0	104.3	120.0	126.9
45°	78.3	102.6	120.0	126.9
47.5°	76.5	100.9	120.0	126.9
50°	73.0	99.1	118.2	126.9
52.5°	71.3	97.4	118.2	126.9
55°	67.8	95.6	116.5	125.2
57.5°	66.1	92.2	114.8	121.7
60°	62.6	88.7	111.3	118.2
62.5°	57.4	83.5	106.1	114.8
65°	52.2	76.5	100.9	107.8
67.5°	47.0	71.3	93.9	100.9
70°	41.7	64.3	85.2	92.2
72.5°	36.5	55.6	76.5	81.7
75°	31.3	47.0	64.3	71.3
77.5°	24.3	38.3	53.9	59.1
80°	19.1	31.3	41.7	45.2
82.5°	15.7	22.6	31.3	33.0
85°	10.4	13.9	19.1	22.6
87.5°	5.2	7.0	8.7	10.4
90°	0.0	0.0	0.0	0.0

(END OF REPORT)