

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: P1316074

Luminaire Tested: P3SQAS09R259827DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1316074
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-49)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS09R259827DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R25 optic, 2700K CCT AND, 98CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

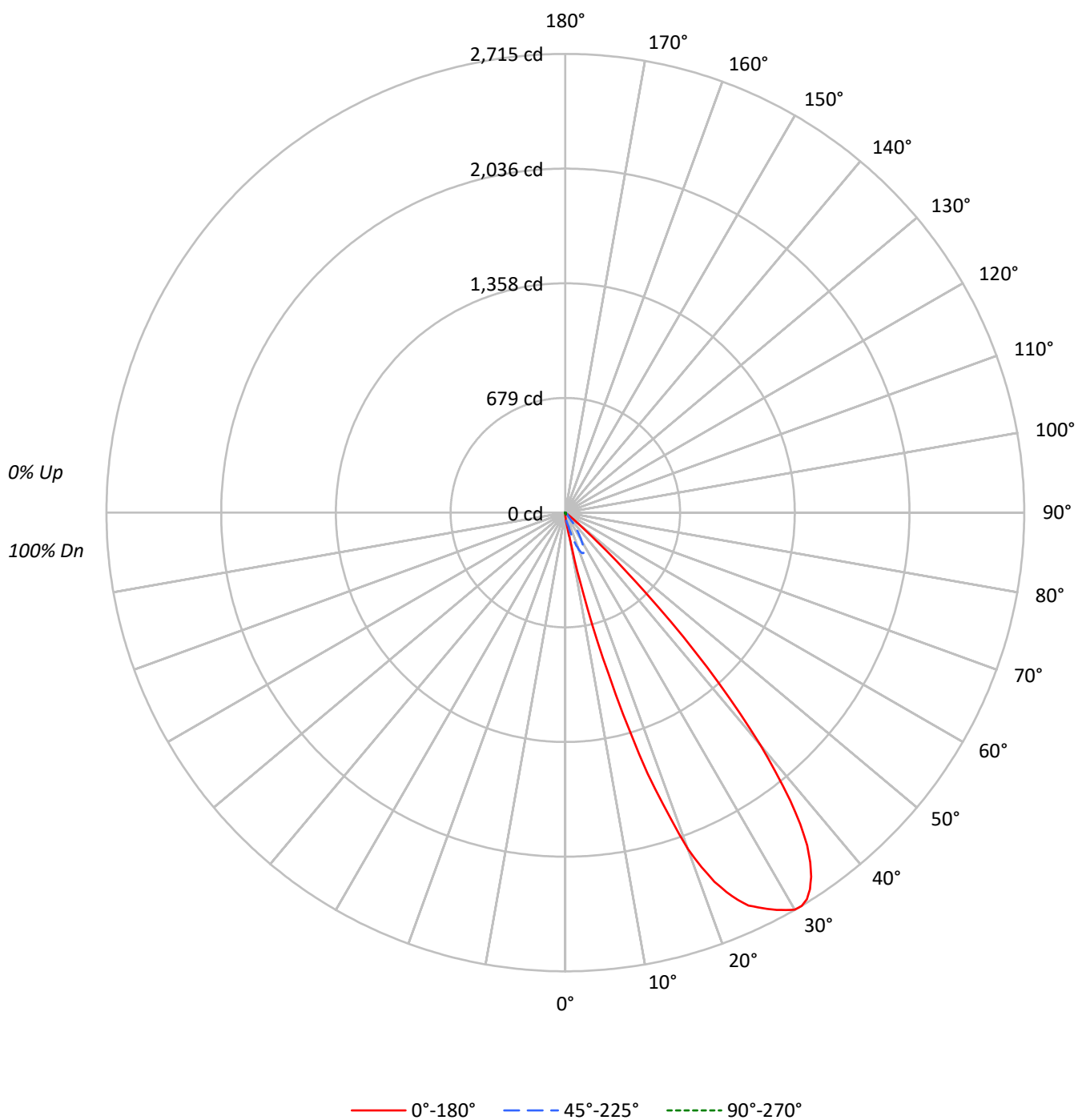
Lumens per Lamp: N/A
Luminaire Lumens: 532.0 lumens
Efficiency: N/A
Efficacy: 48.4 lumens/watt
Spacing Criteria (0/90/45): 2.4 / 0.45 / 1.25
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11
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: P1316074

CATALOG NUMBER: P3SQAS09R259827DE010 E3SQCA301MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1316074

CATALOG NUMBER: P3SQAS09R259827DE010 E3SQCA301MMS

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	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92		
2	106	100	95	92	103	98	94	90	95	92	88	92	89	87	89	87	85	83		
3	99	92	86	81	97	90	85	80	87	83	79	85	81	78	83	79	77	75		
4	93	84	77	72	91	83	76	72	80	75	71	78	74	70	76	72	69	67		
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	62	61		
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	56	55		
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49		
8	70	59	52	47	69	58	52	47	57	51	47	56	51	46	55	50	46	45		
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40		
10	62	50	43	38	60	50	43	38	49	42	38	48	42	38	47	42	38	36		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	2893	2893	2893	2893	2893
5°	9076	6345	2645	1418	1055
10°	28610	11490	1959	175	0
15°	176889	21895	1177	0	0
20°	387848	42685	367	0	0
25°	487532	49084	0	0	0
30°	539701	38003	0	0	0
35°	531268	21529	0	0	0
40°	403823	5621	0	0	0
45°	163575	2484	0	0	0
50°	18166	268	0	0	0
55°	1381	0	150	0	0
60°	0	0	172	0	0
65°	0	0	408	0	0
70°	0	252	504	0	0
75°	0	333	998	0	0
80°	0	496	1488	0	0
85°	0	988	2964	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 163575 cd/sqm

TEST NUMBER: P1316074

CATALOG NUMBER: P3SQAS09R259827DE010 E3SQCA301MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.6	0.5
10°-20°	54.9	10.3
20°-30°	192.1	36.1
30°-40°	214.3	40.3
40°-50°	64.7	12.2
50°-60°	2.2	0.4
60°-70°	0.3	0.1
70°-80°	0.5	0.1
80°-90°	0.4	0.1
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°	249.7	46.9
0°-40°	463.9	87.2
0°-60°	530.8	99.8
0°-90°	532.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	532.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	17	17	17	17	17	
5°	52	37	15	8	6	8
15°	992	123	7	0	0	330
25°	2566	258	0	0	0	1170
35°	2527	102	0	0	0	1517
45°	672	10	0	0	0	580
55°	5	0	0	0	0	14
65°	0	0	1	0	0	0
75°	0	0	2	0	0	0
85°	0	0	2	0	0	0
90°	0	0	0	0	0	

TEST NUMBER: P1316074

CATALOG NUMBER: P3SQAS09R259827DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (FULL):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8
2.5°	29.0	30.1	29.6	30.1	29.6	29.6	29.6	30.1	29.6	29.6	29.6
5°	52.5	53.0	53.0	52.5	52.5	53.5	52.5	53.0	51.5	52.5	52.0
7.5°	86.1	85.1	85.1	85.6	85.6	84.6	84.1	83.1	84.1	84.1	82.5
10°	163.6	162.5	160.0	159.0	160.0	160.0	154.9	155.9	156.4	151.8	150.3
12.5°	480.5	476.9	484.1	472.9	466.2	455.5	461.7	440.8	436.2	433.1	426.0
15°	992.1	1019.1	1007.4	1008.4	1010.4	985.0	993.6	962.0	935.5	927.4	921.8
17.5°	1617.8	1626.0	1615.3	1610.2	1608.1	1595.9	1581.1	1565.3	1545.0	1527.1	1512.3
20°	2116.2	2110.0	2091.7	2093.7	2071.8	2060.6	2047.9	2032.1	2016.3	1990.3	1965.3
21°	2247.6	2229.8	2230.3	2218.1	2217.6	2203.3	2180.9	2164.6	2150.3	2120.7	2105.0
22°	2355.7	2351.6	2342.4	2333.2	2323.6	2316.4	2291.4	2283.3	2254.3	2229.8	2207.4
23°	2439.7	2441.3	2433.1	2427.0	2413.7	2410.7	2378.6	2367.4	2347.5	2310.3	2287.4
24°	2509.5	2507.0	2497.8	2487.1	2479.5	2472.3	2447.9	2429.5	2407.6	2377.1	2354.6
25°	2565.6	2559.5	2553.4	2545.2	2533.0	2524.8	2499.9	2479.5	2460.6	2426.5	2395.9
26°	2598.7	2600.2	2590.6	2584.4	2573.7	2565.6	2539.6	2515.7	2492.2	2455.5	2428.0
27°	2632.3	2630.8	2622.1	2613.0	2601.8	2598.7	2568.6	2543.7	2519.7	2481.0	2448.4
28°	2663.4	2659.3	2652.2	2641.5	2629.3	2620.1	2591.1	2565.1	2539.1	2497.8	2462.1
29°	2689.4	2685.3	2680.7	2667.0	2651.2	2645.1	2614.0	2582.4	2556.4	2514.1	2476.4
30°	2713.9	2706.2	2695.5	2683.8	2668.5	2656.8	2624.2	2596.7	2566.1	2519.2	2483.0
31°	2714.9	2704.7	2697.1	2684.8	2667.5	2653.2	2619.1	2591.1	2555.4	2511.6	2472.3
32°	2697.1	2692.0	2679.7	2666.5	2649.7	2635.4	2597.7	2568.1	2534.5	2487.6	2448.4
33°	2656.8	2651.7	2644.6	2630.8	2608.9	2595.7	2562.0	2529.4	2496.3	2454.0	2409.2
34°	2601.3	2595.1	2586.0	2572.2	2549.8	2536.0	2509.0	2475.4	2440.2	2396.4	2354.6
35°	2526.9	2515.1	2512.6	2492.2	2471.3	2467.8	2435.7	2400.5	2364.8	2316.4	2280.2
36°	2434.6	2420.9	2411.7	2404.6	2390.8	2374.0	2342.4	2314.4	2268.5	2237.4	2186.5
37°	2308.8	2292.0	2300.6	2281.3	2259.9	2252.7	2212.5	2187.0	2148.3	2106.0	2062.7
38°	2162.0	2160.5	2158.5	2149.8	2113.1	2094.3	2077.4	2050.4	2016.8	1965.8	1907.2
39°	1976.5	1979.6	1968.9	1969.9	1951.6	1932.7	1909.3	1878.7	1837.9	1791.6	1744.2
40°	1796.2	1752.9	1760.5	1734.5	1736.0	1708.0	1677.4	1650.4	1624.4	1583.7	1519.0
42.5°	1242.8	1236.2	1213.2	1196.9	1204.1	1167.9	1127.6	1089.9	1053.8	1007.9	951.3
45°	671.6	656.3	660.9	634.4	634.4	618.1	606.9	575.3	541.7	520.8	488.1
47.5°	249.7	252.7	258.3	247.6	235.4	242.5	231.8	231.8	226.2	219.6	210.4
50°	67.8	68.8	67.8	67.8	66.2	65.2	63.2	62.7	62.2	60.6	58.1
52.5°	27.5	26.0	26.0	26.5	26.5	25.5	26.0	26.0	25.5	25.0	25.0
55°	4.6	5.1	5.1	5.1	5.1	4.6	4.6	5.1	5.6	5.1	5.1
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P1316074

CATALOG NUMBER: P3SQAS09R259827DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (continued):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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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CATALOG NUMBER: P3SQAS09R259827DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (continued):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8
2.5°	28.5	25.0	20.9	17.3	13.8	11.7	10.7	11.2
5°	48.4	36.7	23.9	15.3	10.7	8.2	6.6	6.1
7.5°	74.4	50.4	27.0	13.2	8.2	4.1	2.5	2.0
10°	114.1	65.7	29.0	11.2	5.1	1.0	0.0	0.0
12.5°	293.0	80.5	29.6	9.2	2.0	0.0	0.0	0.0
15°	602.3	122.8	28.5	6.6	0.5	0.0	0.0	0.0
17.5°	1001.3	188.0	25.0	4.6	0.0	0.0	0.0	0.0
20°	1389.0	232.9	19.9	2.0	0.0	0.0	0.0	0.0
21°	1505.7	246.1	17.8	1.5	0.0	0.0	0.0	0.0
22°	1601.0	255.8	15.8	1.0	0.0	0.0	0.0	0.0
23°	1680.5	260.9	13.8	0.5	0.0	0.0	0.0	0.0
24°	1736.0	261.9	12.7	0.5	0.0	0.0	0.0	0.0
25°	1762.5	258.3	11.2	0.0	0.0	0.0	0.0	0.0
26°	1772.7	251.2	10.2	0.0	0.0	0.0	0.0	0.0
27°	1765.1	242.0	9.2	0.0	0.0	0.0	0.0	0.0
28°	1751.3	228.3	7.6	0.0	0.0	0.0	0.0	0.0
29°	1724.3	209.9	6.6	0.0	0.0	0.0	0.0	0.0
30°	1698.3	191.1	5.6	0.0	0.0	0.0	0.0	0.0
31°	1668.8	174.3	4.6	0.0	0.0	0.0	0.0	0.0
32°	1632.6	154.9	3.6	0.0	0.0	0.0	0.0	0.0
33°	1572.5	137.1	2.5	0.0	0.0	0.0	0.0	0.0
34°	1488.4	120.3	2.0	0.0	0.0	0.0	0.0	0.0
35°	1375.8	102.4	1.5	0.0	0.0	0.0	0.0	0.0
36°	1252.5	83.6	1.0	0.0	0.0	0.0	0.0	0.0
37°	1101.6	60.6	1.0	0.0	0.0	0.0	0.0	0.0
38°	944.2	38.2	0.5	0.0	0.0	0.0	0.0	0.0
39°	783.2	29.0	0.5	0.0	0.0	0.0	0.0	0.0
40°	635.9	25.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	340.4	16.8	0.0	0.0	0.0	0.0	0.0	0.0
45°	200.8	10.2	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	112.1	4.1	0.0	0.0	0.0	0.0	0.0	0.0
50°	40.3	1.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	15.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	5.6	0.0	0.0	0.5	0.0	0.0	0.0	0.0
57.5°	0.5	0.0	0.5	0.5	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.5	0.5	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.5	1.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	1.0	1.0	0.5	0.0	0.0	0.0
67.5°	0.0	0.5	1.0	1.0	0.5	0.0	0.0	0.0
70°	0.0	0.5	1.0	1.0	0.5	0.0	0.0	0.0
72.5°	0.0	0.5	1.0	1.5	0.5	0.0	0.0	0.0
75°	0.0	0.5	1.0	1.5	0.5	0.0	0.0	0.0
77.5°	0.0	0.5	1.0	1.5	0.5	0.0	0.0	0.0
80°	0.0	0.5	1.0	1.5	0.5	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.0	0.5	1.0	1.5	0.5	0.0	0.0	0.0
85°	0.0	0.5	1.0	1.5	0.5	0.0	0.0	0.0
87.5°	0.0	0.5	1.0	1.5	0.5	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)