

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: P1309622

Luminaire Tested: P3SQAS24R509035D010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1309622
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-53)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS24R509035D010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R50 optic, 3500K CCT AND, 90CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

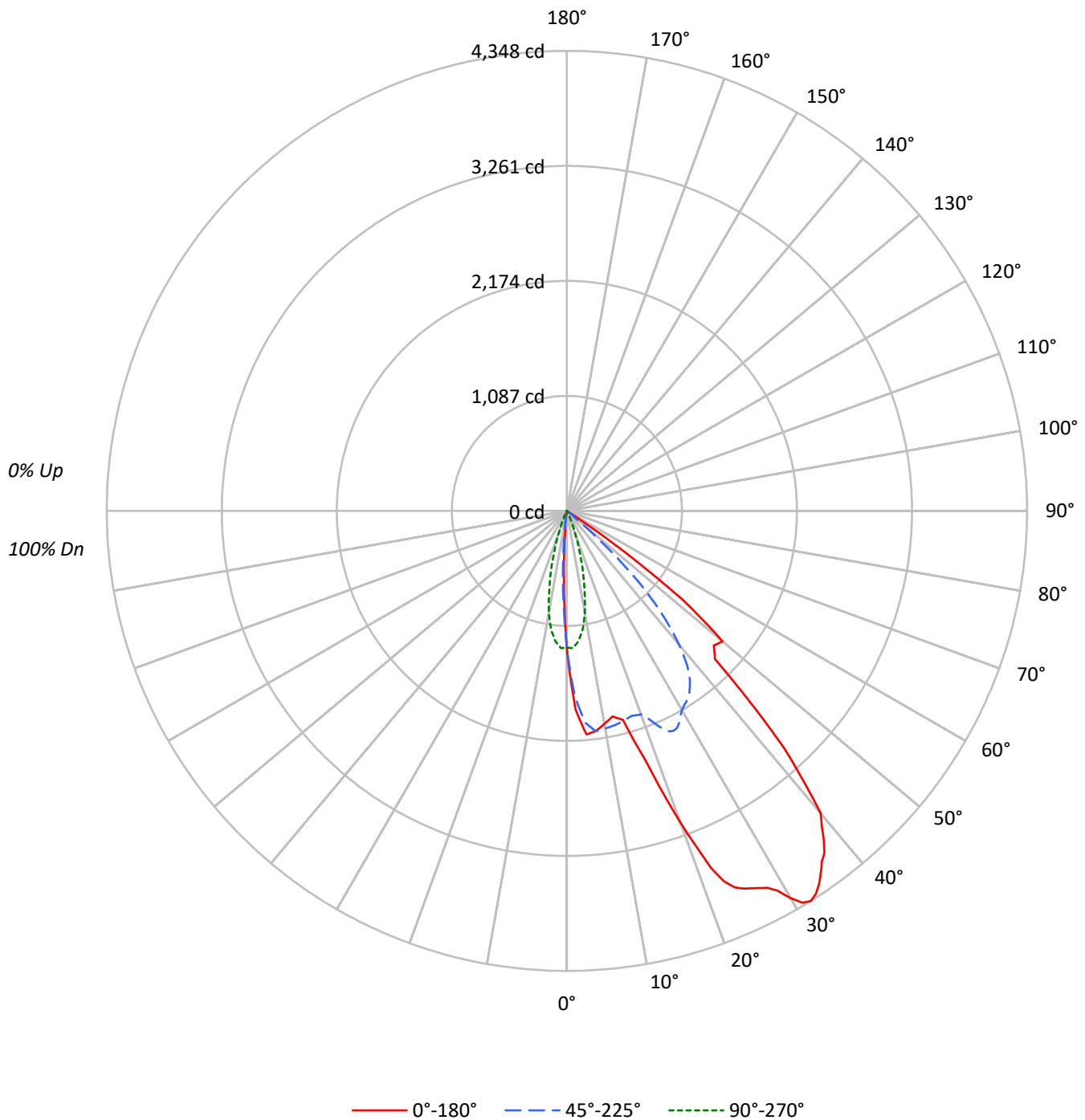
Lumens per Lamp: N/A
Luminaire Lumens: 2080.9 lumens
Efficiency: N/A
Efficacy: 72.3 lumens/watt
Spacing Criteria (0/90/45): 1.8 / 0.48 / 1.24
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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: P1309622

CATALOG NUMBER: P3SQAS24R509035D010 E3SQCA301MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1309622

CATALOG NUMBER: P3SQAS24R509035D010 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	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91		
2	105	100	95	91	103	98	93	90	94	91	88	91	88	86	89	86	84	82		
3	98	91	85	80	96	89	84	79	86	82	78	84	80	77	82	78	75	74		
4	92	83	76	71	90	81	75	70	79	74	70	77	72	69	75	71	68	66		
5	86	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61	59		
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54		
7	75	64	56	51	73	63	56	51	61	55	51	60	55	50	59	54	50	48		
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	55	49	46	44		
9	66	54	47	42	64	54	47	42	53	46	42	52	46	42	51	45	42	40		
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	222529	222529	222529	222529	222529
5°	366645	347939	213836	63516	31758
10°	357314	365166	171347	3218	4285
15°	364298	366492	102628	3281	1088
20°	574239	375220	42282	0	0
25°	748591	437137	10090	0	0
30°	840247	432294	398	0	0
35°	879308	425704	0	0	0
40°	838851	369875	0	0	0
45°	481737	244095	0	0	0
50°	514079	27892	0	0	0
55°	146467	0	0	0	0
60°	0	0	689	0	0
65°	0	815	815	0	0
70°	0	1007	1007	0	0
75°	0	1331	1331	0	0
80°	0	1984	4066	1984	0
85°	0	3952	8102	3952	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°

Vertical Angle: 45°

Luminance: 531934 cd/sqm

TEST NUMBER: P1309622

CATALOG NUMBER: P3SQAS24R509035D010 E3SQCA301MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.5	5.2
10°-20°	273.4	13.1
20°-30°	525.1	25.2
30°-40°	611.2	29.4
40°-50°	437.4	21.0
50°-60°	121.7	5.9
60°-70°	0.8	0.0
70°-80°	1.2	0.1
80°-90°	1.5	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°	907.0	43.6
0°-40°	1518.3	73.0
0°-60°	2077.4	99.8
0°-90°	2080.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2080.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1292	1292	1292	1292	1292	
5°	2121	2013	1237	367	184	195
15°	2043	2056	576	18	6	659
25°	3939	2300	53	0	0	1792
35°	4182	2025	0	0	0	2588
45°	1978	1002	0	0	0	1860
55°	488	0	0	0	0	614
65°	0	2	2	0	0	0
75°	0	2	2	0	0	0
85°	0	2	4	2	0	0
90°	0	0	0	0	0	

TEST NUMBER: P1309622

CATALOG NUMBER: P3SQAS24R509035D010 E3SQCA301MMS

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	1292.1	1292.1	1292.1	1292.1	1292.1	1292.1	1292.1	1292.1	1292.1	1292.1	1292.1
2.5°	1877.9	1888.1	1890.1	1865.6	1869.7	1835.0	1837.0	1812.6	1753.4	1547.2	1298.2
5°	2120.8	2114.6	2120.8	2112.6	2120.8	2100.4	2088.1	2077.9	2012.6	1720.7	1236.9
7.5°	2098.3	2090.1	2102.4	2106.5	2120.8	2114.6	2116.7	2122.8	2100.4	1814.6	1132.8
10°	2043.2	2041.2	2047.3	2047.3	2063.6	2065.7	2073.8	2086.1	2088.1	1847.3	979.8
12.5°	1990.1	1984.0	1984.0	1982.0	1990.1	1988.1	2008.5	2037.1	2075.9	1826.8	769.5
15°	2043.2	2037.1	2028.9	2006.5	1990.1	1971.8	1973.8	1992.2	2055.5	1773.8	575.6
17.5°	2471.8	2439.2	2398.4	2326.9	2251.4	2120.8	2043.2	1994.2	2031.0	1692.1	383.7
20°	3133.2	3118.9	3053.6	2937.2	2814.8	2622.9	2384.1	2192.2	2047.3	1590.1	230.7
21°	3384.2	3376.1	3306.7	3198.5	3059.7	2827.0	2582.1	2351.4	2079.9	1547.2	181.7
22°	3641.4	3610.8	3555.7	3435.3	3290.4	3057.7	2784.1	2529.0	2145.3	1492.1	138.8
23°	3806.8	3788.4	3729.2	3633.3	3494.5	3267.9	2988.3	2710.7	2208.5	1430.9	104.1
24°	3892.5	3886.4	3839.4	3772.1	3653.7	3423.0	3157.7	2871.9	2261.6	1359.4	75.5
25°	3939.4	3919.0	3890.5	3841.5	3751.7	3551.6	3314.8	3012.8	2300.4	1288.0	53.1
26°	3968.0	3955.8	3910.9	3868.0	3782.3	3619.0	3416.9	3098.5	2310.6	1200.2	36.7
27°	4000.7	3972.1	3929.2	3878.2	3782.3	3639.4	3455.7	3135.2	2298.3	1110.4	24.5
28°	4035.4	4015.0	3955.8	3890.5	3776.1	3639.4	3441.4	3086.2	2261.6	1024.7	14.3
29°	4102.7	4076.2	4002.7	3906.8	3778.2	3635.3	3386.3	2984.2	2212.6	928.7	8.2
30°	4225.2	4170.1	4080.3	3945.6	3792.5	3627.1	3294.4	2831.1	2173.8	820.5	2.0
31°	4321.1	4290.5	4186.4	4017.0	3833.3	3604.7	3186.3	2680.0	2147.3	726.7	0.0
32°	4347.7	4325.2	4249.7	4090.5	3902.7	3586.3	3063.8	2533.1	2126.9	622.6	0.0
33°	4317.1	4302.8	4223.2	4078.2	3921.1	3561.8	2922.9	2388.2	2104.4	528.7	0.0
34°	4259.9	4241.5	4172.1	4025.2	3874.1	3455.7	2788.2	2277.9	2071.8	440.9	0.0
35°	4182.3	4168.1	4096.6	3951.7	3788.4	3290.4	2653.5	2204.5	2024.8	353.1	0.0
36°	4098.7	4094.6	4002.7	3859.8	3678.2	3131.1	2490.2	2149.3	1977.9	279.6	0.0
37°	4043.5	4023.1	3923.1	3782.3	3547.5	2945.4	2359.6	2131.0	1912.6	216.4	0.0
38°	3943.5	3947.6	3833.3	3704.7	3414.9	2784.1	2253.4	2116.7	1839.1	157.2	0.0
39°	3825.1	3827.2	3708.8	3598.6	3257.7	2614.7	2165.7	2102.4	1747.2	100.0	0.0
40°	3731.2	3729.2	3594.5	3476.1	3088.3	2455.5	2118.7	2082.0	1645.2	57.2	0.0
42.5°	3033.2	3045.4	3061.7	3110.7	2690.3	2175.9	2073.8	1967.7	1355.3	0.0	0.0
45°	1977.9	2024.8	2037.1	2184.0	2182.0	2061.6	1967.7	1763.6	1002.2	0.0	0.0
47.5°	1882.0	1896.2	1922.8	1979.9	2010.5	1951.4	1759.5	1473.7	547.0	0.0	0.0
50°	1918.7	1916.7	1922.8	1922.8	1867.7	1714.6	1443.1	1087.9	104.1	0.0	0.0
52.5°	1377.8	1428.8	1483.9	1508.4	1437.0	1275.7	1053.2	638.9	0.0	0.0	0.0
55°	487.8	471.5	459.3	502.1	491.9	553.2	457.2	149.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	2.0	8.2	18.4	24.5	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	2.0	2.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	2.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	2.0	2.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	2.0	2.0	2.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	2.0	2.0	2.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	2.0	2.0	2.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	2.0	2.0	2.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.0	2.0	2.0	2.0	4.1
80°	0.0	0.0	0.0	0.0	0.0	0.0	2.0	2.0	2.0	2.0	4.1



TEST NUMBER: P1309622

CATALOG NUMBER: P3SQAS24R509035D010 E3SQCA301MMS

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	2.0	2.0	4.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	2.0	2.0	2.0	2.0	4.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	2.0	2.0	4.1
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: P1309622

CATALOG NUMBER: P3SQAS24R509035D010 E3SQCA301MMS

CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
0°	1292.1	1292.1	1292.1	1292.1
2.5°	1034.9	794.0	643.0	653.2
5°	726.7	367.4	226.6	183.7
7.5°	434.8	112.3	22.5	18.4
10°	204.1	18.4	20.4	24.5
12.5°	61.2	16.3	22.5	20.4
15°	16.3	18.4	10.2	6.1
17.5°	6.1	8.2	0.0	0.0
20°	4.1	0.0	0.0	0.0
21°	4.1	0.0	0.0	0.0
22°	2.0	0.0	0.0	0.0
23°	0.0	0.0	0.0	0.0
24°	0.0	0.0	0.0	0.0
25°	0.0	0.0	0.0	0.0
26°	0.0	0.0	0.0	0.0
27°	0.0	0.0	0.0	0.0
28°	0.0	0.0	0.0	0.0
29°	0.0	0.0	0.0	0.0
30°	0.0	0.0	0.0	0.0
31°	0.0	0.0	0.0	0.0
32°	0.0	0.0	0.0	0.0
33°	0.0	0.0	0.0	0.0
34°	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0
36°	0.0	0.0	0.0	0.0
37°	0.0	0.0	0.0	0.0
38°	0.0	0.0	0.0	0.0
39°	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0
65°	2.0	0.0	0.0	0.0
67.5°	2.0	0.0	0.0	0.0
70°	2.0	0.0	0.0	0.0
72.5°	2.0	0.0	0.0	0.0
75°	2.0	0.0	0.0	0.0
77.5°	2.0	0.0	0.0	0.0
80°	2.0	2.0	0.0	0.0



TEST NUMBER: P1309622

CATALOG NUMBER: P3SQAS24R509035D010 E3SQCA301MMS

CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
82.5°	2.0	2.0	0.0	0.0
85°	2.0	2.0	0.0	0.0
87.5°	2.0	2.0	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)