

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: P1310039

Luminaire Tested: P3SQAS09R209040DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1310039
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-48)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS09R209040DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R20 optic, 4000K CCT AND, 90CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

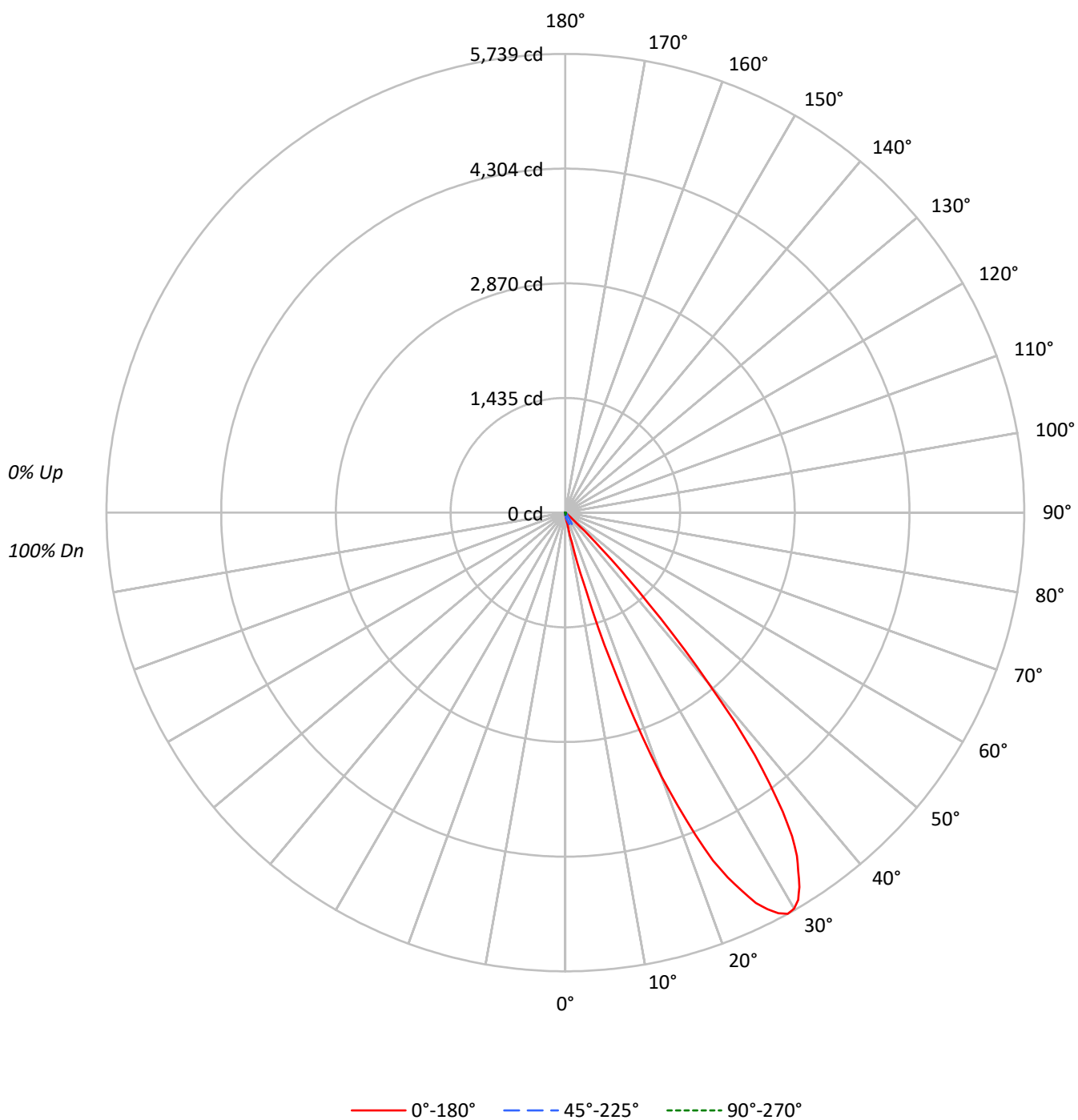
Lumens per Lamp: N/A
Luminaire Lumens: 792.0 lumens
Efficiency: N/A
Efficacy: 71.4 lumens/watt
Spacing Criteria (0/90/45): 2.28 / 0.42 / 1.12
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11.1
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: P1310039

CATALOG NUMBER: P3SQAS09R209040DE010 E3SQCA301MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1310039

CATALOG NUMBER: P3SQAS09R209040DE010 E3SQCA301MMS

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	0
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	96	92	104	98	94	91	95	92	89	92	89	87	89	87	85	83			
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75			
4	93	84	77	72	91	83	77	72	80	75	71	78	74	70	76	73	69	68			
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63	61			
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	57	55			
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	49			
8	71	59	52	47	69	59	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°	4891	4891	4891	4891	4891
5°	10615	7486	4495	2040	1504
10°	26442	13221	3165	420	0
15°	186090	18115	1819	0	0
20°	643132	30460	715	0	0
25°	991331	38917	304	0	0
30°	1137829	30068	0	0	0
35°	1039157	11416	0	0	0
40°	622978	5306	0	0	0
45°	153102	2484	0	0	0
50°	16880	643	0	0	0
55°	2372	0	240	0	0
60°	0	0	551	0	0
65°	0	0	652	0	0
70°	0	403	1209	0	0
75°	0	532	1597	0	0
80°	0	793	2380	0	0
85°	0	1581	4742	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 1°

Vertical Angle: 45°

Luminance: 163258 cd/sqm

TEST NUMBER: P1310039

CATALOG NUMBER: P3SQAS09R209040DE010 E3SQCA301MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.2	0.4
10°-20°	61.9	7.8
20°-30°	312.9	39.5
30°-40°	338.5	42.7
40°-50°	71.5	9.0
50°-60°	2.2	0.3
60°-70°	0.5	0.1
70°-80°	0.7	0.1
80°-90°	0.7	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°	378.0	47.7
0°-40°	716.5	90.5
0°-60°	790.1	99.8
0°-90°	792.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	792.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	28	28	28	28	28	
5°	61	43	26	12	9	9
15°	1044	102	10	0	0	435
25°	5217	205	2	0	0	2358
35°	4943	54	0	0	0	2915
45°	629	10	0	0	0	691
55°	8	0	1	0	0	14
65°	0	0	2	0	0	0
75°	0	1	2	0	0	0
85°	0	1	2	0	0	0
90°	0	0	0	0	0	

TEST NUMBER: P1310039

CATALOG NUMBER: P3SQAS09R209040DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (FULL):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4
2.5°	38.6	37.8	38.6	37.8	38.6	38.6	38.6	37.8	37.8	37.8	37.8
5°	61.4	61.4	60.7	61.4	61.4	61.4	61.4	60.7	60.7	59.9	59.9
7.5°	96.9	96.9	96.1	96.1	96.9	97.7	94.5	96.1	96.1	96.1	95.3
10°	151.2	154.4	151.2	155.2	152.0	149.7	153.6	149.7	149.7	148.9	146.5
12.5°	381.2	372.6	367.1	353.7	367.1	356.8	359.2	356.8	348.9	338.7	332.4
15°	1043.7	1043.7	1012.9	1053.9	1024.0	1035.0	978.3	979.1	949.9	918.4	901.1
17.5°	2181.9	2201.5	2181.1	2168.5	2141.7	2103.1	2087.3	2047.2	1994.4	1932.9	1925.9
20°	3509.1	3426.4	3465.0	3429.5	3407.5	3360.2	3307.4	3274.4	3227.9	3149.9	3034.9
21°	3926.5	3923.4	3922.6	3921.8	3889.5	3812.3	3764.3	3698.1	3632.7	3552.4	3456.3
22°	4347.2	4362.1	4368.4	4322.7	4256.6	4221.9	4188.8	4098.3	3995.1	3953.3	3839.1
23°	4733.1	4718.9	4678.0	4656.7	4605.5	4595.3	4496.8	4439.3	4338.5	4292.8	4157.3
24°	4996.2	4989.1	4970.2	4938.7	4897.7	4834.7	4775.7	4685.1	4602.4	4527.5	4401.5
25°	5216.8	5223.1	5188.4	5167.1	5123.0	5052.1	4979.7	4880.4	4803.2	4715.8	4570.1
26°	5434.9	5390.8	5363.3	5331.8	5283.7	5202.6	5132.5	5043.5	4949.7	4852.1	4709.5
27°	5569.6	5530.2	5488.5	5457.8	5402.6	5325.4	5250.6	5152.2	5047.4	4948.9	4802.4
28°	5676.0	5632.6	5591.7	5554.7	5491.6	5408.9	5319.1	5219.1	5110.4	5008.8	4859.1
29°	5739.0	5687.8	5643.7	5601.9	5544.4	5454.6	5364.0	5256.9	5152.2	5045.8	4893.0
30°	5721.6	5677.5	5635.0	5592.5	5534.2	5449.9	5360.1	5257.7	5152.2	5047.4	4892.2
31°	5653.9	5599.6	5568.8	5526.3	5475.9	5390.0	5312.8	5201.0	5105.7	4992.3	4837.1
32°	5523.9	5489.3	5448.3	5415.2	5366.4	5275.0	5199.4	5108.1	4995.4	4902.5	4739.4
33°	5347.5	5315.2	5294.7	5256.1	5208.9	5145.9	5055.3	4971.8	4845.0	4749.7	4586.6
34°	5178.9	5138.0	5086.8	5075.8	5034.8	4953.7	4871.8	4786.7	4673.3	4552.0	4387.3
35°	4942.6	4900.1	4852.8	4856.8	4807.9	4713.4	4629.9	4534.6	4426.7	4284.1	4128.2
36°	4626.8	4598.4	4591.3	4572.4	4516.5	4403.9	4324.3	4204.6	4114.0	3939.9	3806.0
37°	4241.6	4251.9	4200.7	4176.2	4110.9	4032.1	3987.2	3833.6	3728.1	3597.3	3416.1
38°	3852.5	3837.5	3776.9	3791.9	3702.1	3620.1	3493.3	3402.0	3283.8	3162.5	3017.6
39°	3366.5	3329.5	3257.0	3260.2	3192.4	3100.3	2977.4	2869.5	2798.6	2682.0	2543.4
40°	2771.0	2755.3	2730.1	2688.3	2599.3	2559.1	2449.7	2333.1	2273.2	2111.7	2044.0
42.5°	1537.5	1516.3	1473.7	1458.8	1411.5	1364.2	1300.4	1222.5	1184.7	1136.6	1029.5
45°	628.6	670.3	660.1	648.3	612.0	614.4	568.7	574.2	532.5	504.1	484.4
47.5°	138.6	150.4	151.2	145.7	151.2	146.5	144.1	140.2	141.0	143.4	137.8
50°	63.0	62.2	63.8	63.0	62.2	61.4	60.7	58.3	59.9	58.3	56.7
52.5°	24.4	25.2	25.2	23.6	24.4	24.4	24.4	23.6	23.6	23.6	23.6
55°	7.9	7.9	7.9	7.1	7.1	7.9	7.9	7.9	7.9	7.9	7.1
57.5°	0.8	1.6	0.8	1.6	0.8	0.8	0.8	0.8	0.8	1.6	1.6
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: P1310039

CATALOG NUMBER: P3SQAS09R209040DE010 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

TEST NUMBER: P1310039

CATALOG NUMBER: P3SQAS09R209040DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (continued):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4
2.5°	36.2	33.1	30.7	28.4	23.6	19.7	18.1	18.1
5°	55.9	43.3	32.3	26.0	18.1	11.8	9.5	8.7
7.5°	84.3	58.3	33.9	22.1	11.8	6.3	3.9	3.2
10°	122.1	75.6	35.4	18.1	7.1	2.4	0.0	0.0
12.5°	213.5	90.6	35.4	14.2	3.2	0.0	0.0	0.0
15°	489.1	101.6	33.9	10.2	0.8	0.0	0.0	0.0
17.5°	1016.1	127.6	29.9	7.1	0.0	0.0	0.0	0.0
20°	1622.6	166.2	23.6	3.9	0.0	0.0	0.0	0.0
21°	1872.3	179.6	21.3	3.2	0.0	0.0	0.0	0.0
22°	2051.9	192.2	18.9	2.4	0.0	0.0	0.0	0.0
23°	2249.6	200.1	16.5	1.6	0.0	0.0	0.0	0.0
24°	2395.3	204.8	14.2	1.6	0.0	0.0	0.0	0.0
25°	2485.9	204.8	12.6	1.6	0.0	0.0	0.0	0.0
26°	2539.5	200.1	11.0	0.8	0.0	0.0	0.0	0.0
27°	2552.1	192.2	9.5	0.8	0.0	0.0	0.0	0.0
28°	2536.3	182.0	7.9	0.0	0.0	0.0	0.0	0.0
29°	2486.7	167.0	7.1	0.0	0.0	0.0	0.0	0.0
30°	2433.1	151.2	5.5	0.0	0.0	0.0	0.0	0.0
31°	2341.7	130.0	4.7	0.0	0.0	0.0	0.0	0.0
32°	2236.2	107.9	3.9	0.0	0.0	0.0	0.0	0.0
33°	2095.2	85.1	3.2	0.0	0.0	0.0	0.0	0.0
34°	1887.3	67.0	3.2	0.0	0.0	0.0	0.0	0.0
35°	1700.6	54.3	2.4	0.0	0.0	0.0	0.0	0.0
36°	1456.4	43.3	2.4	0.0	0.0	0.0	0.0	0.0
37°	1247.7	36.2	2.4	0.0	0.0	0.0	0.0	0.0
38°	1044.5	30.7	1.6	0.0	0.0	0.0	0.0	0.0
39°	847.5	26.8	1.6	0.0	0.0	0.0	0.0	0.0
40°	675.8	23.6	1.6	0.0	0.0	0.0	0.0	0.0
42.5°	364.7	15.8	0.0	0.0	0.0	0.0	0.0	0.0
45°	201.6	10.2	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	89.0	5.5	0.0	0.0	0.0	0.0	0.0	0.0
50°	29.9	2.4	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	15.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	7.1	0.0	0.0	0.8	0.0	0.0	0.0	0.0
57.5°	1.6	0.0	0.0	0.8	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.8	1.6	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.8	1.6	0.8	0.0	0.0	0.0
65°	0.0	0.0	1.6	1.6	0.8	0.0	0.0	0.0
67.5°	0.0	0.8	1.6	2.4	0.8	0.0	0.0	0.0
70°	0.0	0.8	1.6	2.4	0.8	0.0	0.0	0.0
72.5°	0.0	0.8	1.6	2.4	0.8	0.0	0.0	0.0
75°	0.0	0.8	1.6	2.4	0.8	0.0	0.0	0.0
77.5°	0.0	0.8	1.6	2.4	0.8	0.0	0.0	0.0
80°	0.0	0.8	1.6	2.4	0.8	0.0	0.0	0.0



TEST NUMBER: P1310039

CATALOG NUMBER: P3SQAS09R209040DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (continued):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.0	0.8	1.6	2.4	0.8	0.0	0.0	0.0
85°	0.0	0.8	1.6	2.4	0.8	0.0	0.0	0.0
87.5°	0.0	0.8	1.6	2.4	0.8	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)