

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: P1311116

Luminaire Tested: P3SQAS09R209050DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1311116
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: P3SQAS09R209050DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R20 optic, 5000K CCT AND, 90CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

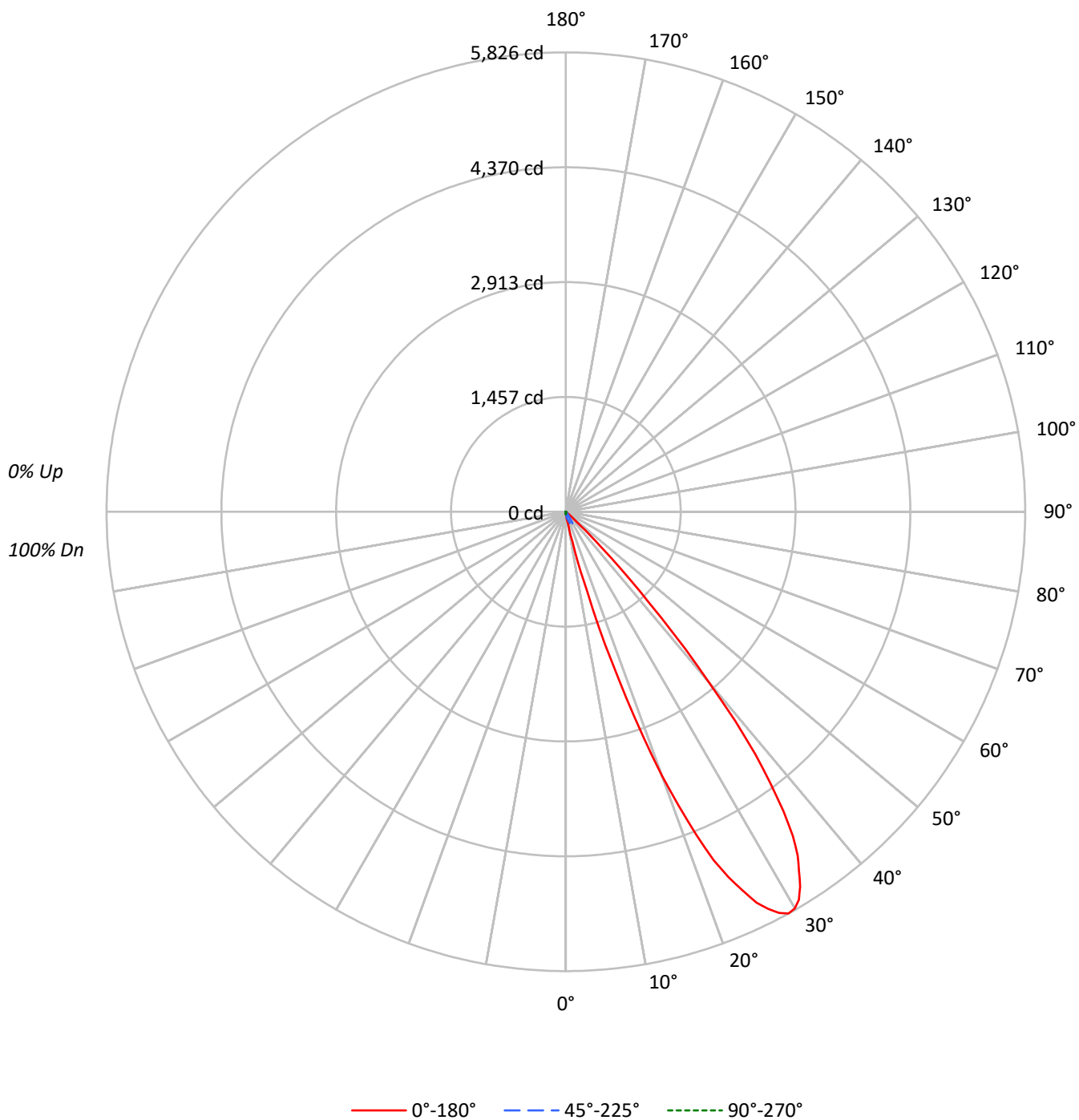
Lumens per Lamp: N/A
Luminaire Lumens: 804.0 lumens
Efficiency: N/A
Efficacy: 72.4 lumens/watt
Spacing Criteria (0/90/45): 2.28 / 0.42 / 1.12
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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: P1311116

CATALOG NUMBER: P3SQAS09R209050DE010 E3SQCA301MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1311116

CATALOG NUMBER: P3SQAS09R209050DE010 E3SQCA301MMS

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	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	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	50		
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°	4960	4960	4960	4960	4960
5°	10788	7607	4564	2075	1521
10°	26844	13431	3218	420	0
15°	188907	18383	1854	0	0
20°	652864	30919	733	0	0
25°	1006343	39507	304	0	0
30°	1155071	30526	0	0	0
35°	1054904	11606	0	0	0
40°	632421	5396	0	0	0
45°	155415	2533	0	0	0
50°	17148	643	0	0	0
55°	2402	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: 165742 cd/sqm

TEST NUMBER: P1311116

CATALOG NUMBER: P3SQAS09R209050DE010 E3SQCA301MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.3	0.4
10°-20°	62.8	7.8
20°-30°	317.6	39.5
30°-40°	343.6	42.7
40°-50°	72.6	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°	383.7	47.7
0°-40°	727.3	90.5
0°-60°	802.1	99.8
0°-90°	804.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	804.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	29	29	29	29	29	
5°	62	44	26	12	9	9
15°	1060	103	10	0	0	442
25°	5296	208	2	0	0	2394
35°	5018	55	0	0	0	2959
45°	638	10	0	0	0	702
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: P1311116

CATALOG NUMBER: P3SQAS09R209050DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (FULL):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8
2.5°	39.2	38.4	39.2	38.4	39.2	39.2	39.2	38.4	38.4	38.4	38.4
5°	62.4	62.4	61.6	62.4	62.4	62.4	62.4	61.6	61.6	60.8	60.8
7.5°	98.4	98.4	97.6	97.6	98.4	99.2	96.0	97.6	97.6	97.6	96.8
10°	153.5	156.7	153.5	157.5	154.3	151.9	155.9	151.9	151.9	151.1	148.7
12.5°	387.0	378.2	372.6	359.0	372.6	362.2	364.6	362.2	354.2	343.8	337.4
15°	1059.5	1059.5	1028.3	1069.9	1039.5	1050.7	993.1	993.9	964.3	932.3	914.7
17.5°	2214.9	2234.9	2214.1	2201.3	2174.1	2134.9	2119.0	2078.2	2024.6	1962.2	1955.0
20°	3562.2	3478.3	3517.5	3481.5	3459.1	3411.1	3357.5	3324.0	3276.8	3197.6	3080.9
21°	3986.0	3982.8	3982.0	3981.2	3948.5	3870.1	3821.3	3754.2	3687.8	3606.2	3508.7
22°	4413.0	4428.2	4434.6	4388.2	4321.1	4285.9	4252.3	4160.4	4055.6	4013.2	3897.3
23°	4804.8	4790.4	4748.9	4727.3	4675.3	4664.9	4565.0	4506.6	4404.2	4357.9	4220.3
24°	5071.9	5064.7	5045.5	5013.5	4972.0	4908.0	4848.0	4756.1	4672.1	4596.1	4468.2
25°	5295.8	5302.2	5267.0	5245.4	5200.6	5128.7	5055.1	4954.4	4876.0	4787.2	4639.3
26°	5517.3	5472.5	5444.5	5412.5	5363.8	5281.4	5210.2	5119.9	5024.7	4925.6	4780.8
27°	5654.0	5614.0	5571.7	5540.5	5484.5	5406.1	5330.2	5230.2	5123.9	5023.9	4875.2
28°	5762.0	5718.0	5676.4	5638.8	5574.9	5490.9	5399.7	5298.2	5187.8	5084.7	4932.8
29°	5825.9	5774.0	5729.2	5686.8	5628.4	5537.3	5445.3	5336.6	5230.2	5122.3	4967.2
30°	5808.3	5763.6	5720.4	5677.2	5618.0	5532.5	5441.3	5337.4	5230.2	5123.9	4966.4
31°	5739.6	5684.4	5653.2	5610.0	5558.9	5471.7	5393.3	5279.8	5183.0	5067.9	4910.4
32°	5607.6	5572.5	5530.9	5497.3	5447.7	5355.0	5278.2	5185.4	5071.1	4976.7	4811.2
33°	5428.5	5395.7	5375.0	5335.8	5287.8	5223.8	5131.9	5047.1	4918.4	4821.6	4656.1
34°	5257.4	5215.8	5163.9	5152.7	5111.1	5028.7	4945.6	4859.2	4744.1	4620.9	4453.8
35°	5017.5	4974.4	4926.4	4930.4	4880.8	4784.8	4700.1	4603.3	4493.8	4349.1	4190.7
36°	4696.9	4668.1	4660.9	4641.7	4584.9	4470.6	4389.8	4268.3	4176.3	3999.6	3863.7
37°	4305.9	4316.3	4264.3	4239.5	4173.1	4093.2	4047.6	3891.7	3784.5	3651.8	3467.9
38°	3910.9	3895.7	3834.1	3849.3	3758.1	3675.0	3546.3	3453.5	3333.6	3210.4	3063.3
39°	3417.5	3379.9	3306.4	3309.6	3240.8	3147.3	3022.5	2913.0	2841.0	2722.7	2581.9
40°	2813.0	2797.0	2771.4	2729.1	2638.7	2597.9	2486.8	2368.4	2307.7	2143.7	2075.0
42.5°	1560.8	1539.2	1496.1	1480.9	1432.9	1384.9	1320.1	1241.0	1202.6	1153.8	1045.1
45°	638.1	680.5	670.1	658.1	621.3	623.7	577.3	582.9	540.5	511.7	491.8
47.5°	140.7	152.7	153.5	147.9	153.5	148.7	146.3	142.3	143.1	145.5	139.9
50°	64.0	63.2	64.8	64.0	63.2	62.4	61.6	59.2	60.8	59.2	57.6
52.5°	24.8	25.6	25.6	24.0	24.8	24.8	24.8	24.0	24.0	24.0	24.0
55°	8.0	8.0	8.0	7.2	7.2	8.0	8.0	8.0	8.0	8.0	7.2
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: P1311116

CATALOG NUMBER: P3SQAS09R209050DE010 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: P1311116

CATALOG NUMBER: P3SQAS09R209050DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (continued):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8
2.5°	36.8	33.6	31.2	28.8	24.0	20.0	18.4	18.4
5°	56.8	44.0	32.8	26.4	18.4	12.0	9.6	8.8
7.5°	85.6	59.2	34.4	22.4	12.0	6.4	4.0	3.2
10°	123.9	76.8	36.0	18.4	7.2	2.4	0.0	0.0
12.5°	216.7	92.0	36.0	14.4	3.2	0.0	0.0	0.0
15°	496.6	103.1	34.4	10.4	0.8	0.0	0.0	0.0
17.5°	1031.5	129.5	30.4	7.2	0.0	0.0	0.0	0.0
20°	1647.2	168.7	24.0	4.0	0.0	0.0	0.0	0.0
21°	1900.7	182.3	21.6	3.2	0.0	0.0	0.0	0.0
22°	2083.0	195.1	19.2	2.4	0.0	0.0	0.0	0.0
23°	2283.7	203.1	16.8	1.6	0.0	0.0	0.0	0.0
24°	2431.6	207.9	14.4	1.6	0.0	0.0	0.0	0.0
25°	2523.6	207.9	12.8	1.6	0.0	0.0	0.0	0.0
26°	2577.9	203.1	11.2	0.8	0.0	0.0	0.0	0.0
27°	2590.7	195.1	9.6	0.8	0.0	0.0	0.0	0.0
28°	2574.7	184.7	8.0	0.0	0.0	0.0	0.0	0.0
29°	2524.4	169.5	7.2	0.0	0.0	0.0	0.0	0.0
30°	2470.0	153.5	5.6	0.0	0.0	0.0	0.0	0.0
31°	2377.2	131.9	4.8	0.0	0.0	0.0	0.0	0.0
32°	2270.1	109.5	4.0	0.0	0.0	0.0	0.0	0.0
33°	2127.0	86.4	3.2	0.0	0.0	0.0	0.0	0.0
34°	1915.9	68.0	3.2	0.0	0.0	0.0	0.0	0.0
35°	1726.3	55.2	2.4	0.0	0.0	0.0	0.0	0.0
36°	1478.5	44.0	2.4	0.0	0.0	0.0	0.0	0.0
37°	1266.6	36.8	2.4	0.0	0.0	0.0	0.0	0.0
38°	1060.3	31.2	1.6	0.0	0.0	0.0	0.0	0.0
39°	860.4	27.2	1.6	0.0	0.0	0.0	0.0	0.0
40°	686.1	24.0	1.6	0.0	0.0	0.0	0.0	0.0
42.5°	370.2	16.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	204.7	10.4	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	90.4	5.6	0.0	0.0	0.0	0.0	0.0	0.0
50°	30.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	15.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	7.2	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: P1311116

CATALOG NUMBER: P3SQAS09R209050DE010 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)