

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: P1308921

Luminaire Tested: P3SQAS09R209035DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1308921
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: P3SQAS09R209035DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R20 optic, 3500K CCT AND, 90CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

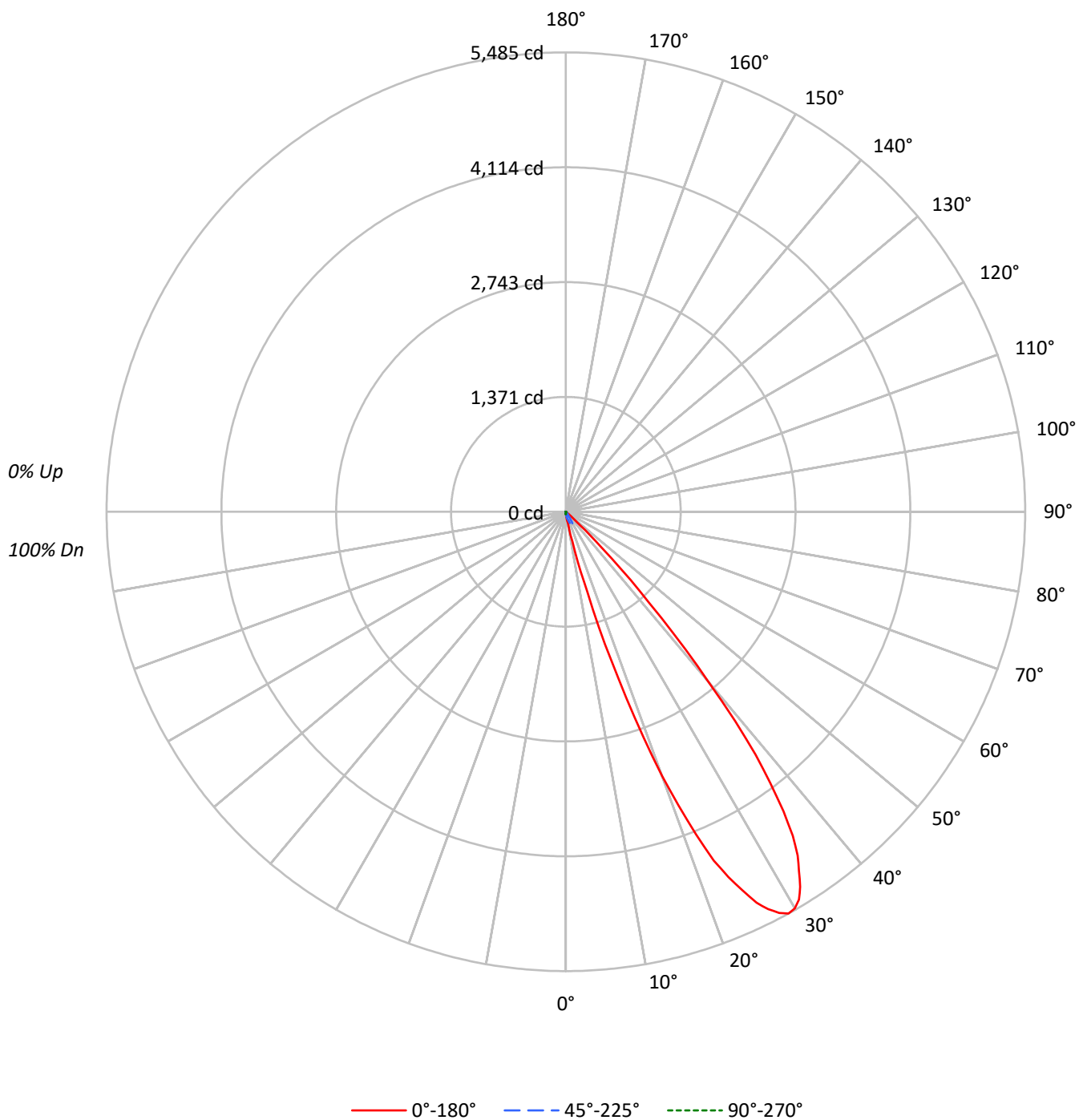
Lumens per Lamp: N/A
Luminaire Lumens: 757.1 lumens
Efficiency: N/A
Efficacy: 68.2 lumens/watt
Spacing Criteria (0/90/45): 2.28 / 0.42 / 1.12
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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: P1308921

CATALOG NUMBER: P3SQAS09R209035DE010 E3SQCA301MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1308921

CATALOG NUMBER: P3SQAS09R209035DE010 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	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°	4667	4667	4667	4667	4667
5°	10148	7157	4287	1954	1435
10°	25270	12644	3025	402	0
15°	177852	17313	1747	0	0
20°	614706	29122	696	0	0
25°	947511	37188	285	0	0
30°	1087556	28736	0	0	0
35°	993240	10912	0	0	0
40°	595460	5081	0	0	0
45°	146331	2387	0	0	0
50°	16129	616	0	0	0
55°	2252	0	240	0	0
60°	0	0	517	0	0
65°	0	0	611	0	0
70°	0	403	1158	0	0
75°	0	532	1530	0	0
80°	0	793	2281	0	0
85°	0	1581	4545	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 1°

Vertical Angle: 45°

Luminance: 156049 cd/sqm

TEST NUMBER: P1308921

CATALOG NUMBER: P3SQAS09R209035DE010 E3SQCA301MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.1	0.4
10°-20°	59.1	7.8
20°-30°	299.0	39.5
30°-40°	323.5	42.7
40°-50°	68.3	9.0
50°-60°	2.1	0.3
60°-70°	0.5	0.1
70°-80°	0.7	0.1
80°-90°	0.6	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°	361.2	47.7
0°-40°	684.8	90.5
0°-60°	755.2	99.8
0°-90°	757.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	757.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	27	27	27	27	27	
5°	59	41	25	11	8	8
15°	998	97	10	0	0	416
25°	4986	196	2	0	0	2254
35°	4724	52	0	0	0	2786
45°	601	10	0	0	0	661
55°	8	0	1	0	0	13
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: P1308921

CATALOG NUMBER: P3SQAS09R209035DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (FULL):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1
2.5°	36.9	36.1	36.9	36.1	36.9	36.9	36.9	36.1	36.1	36.1	36.1
5°	58.7	58.7	58.0	58.7	58.7	58.7	58.7	58.0	58.0	57.2	57.2
7.5°	92.6	92.6	91.8	91.8	92.6	93.4	90.3	91.8	91.8	91.8	91.1
10°	144.5	147.6	144.5	148.3	145.3	143.0	146.8	143.0	143.0	142.3	140.0
12.5°	364.4	356.1	350.8	338.0	350.8	341.0	343.3	341.0	333.5	323.7	317.7
15°	997.5	997.5	968.2	1007.3	978.7	989.3	935.1	935.8	908.0	877.8	861.3
17.5°	2085.4	2104.3	2084.7	2072.6	2047.0	2010.1	1995.1	1956.7	1906.2	1847.5	1840.8
20°	3354.0	3275.0	3311.8	3278.0	3256.9	3211.7	3161.3	3129.7	3085.2	3010.7	2900.8
21°	3753.0	3750.0	3749.3	3748.5	3717.6	3643.9	3597.9	3534.7	3472.2	3395.4	3303.6
22°	4155.1	4169.4	4175.4	4131.7	4068.5	4035.3	4003.7	3917.1	3818.5	3778.6	3669.5
23°	4524.0	4510.4	4471.3	4450.9	4402.0	4392.2	4298.1	4243.1	4146.8	4103.1	3973.6
24°	4775.4	4768.6	4750.6	4720.5	4681.3	4621.1	4564.6	4478.0	4399.0	4327.5	4207.0
25°	4986.2	4992.2	4959.1	4938.8	4896.6	4828.9	4759.6	4664.7	4591.0	4507.4	4368.1
26°	5194.8	5152.6	5126.2	5096.1	5050.2	4972.7	4905.7	4820.6	4731.0	4637.6	4501.4
27°	5323.5	5285.9	5246.0	5216.6	5163.9	5090.1	5018.6	4924.5	4824.3	4730.2	4590.2
28°	5425.1	5383.7	5344.6	5309.2	5249.0	5169.9	5084.1	4988.5	4884.6	4787.5	4644.4
29°	5485.4	5436.4	5394.3	5354.4	5299.4	5213.6	5127.0	5024.6	4924.5	4822.8	4676.8
30°	5468.8	5426.6	5386.0	5345.3	5289.6	5209.1	5123.2	5025.4	4924.5	4824.3	4676.0
31°	5404.1	5352.1	5322.7	5282.1	5233.9	5151.8	5078.1	4971.2	4880.1	4771.6	4623.3
32°	5279.8	5246.7	5207.6	5175.9	5129.3	5041.9	4969.6	4882.3	4774.7	4685.8	4530.0
33°	5111.2	5080.3	5060.7	5023.9	4978.7	4918.5	4831.9	4752.1	4630.9	4539.8	4383.9
34°	4950.1	4910.9	4862.0	4851.4	4812.3	4734.8	4656.5	4575.1	4466.7	4350.8	4193.4
35°	4724.2	4683.6	4638.4	4642.2	4595.5	4505.1	4425.3	4334.2	4231.1	4094.8	3945.8
36°	4422.3	4395.2	4388.4	4370.4	4316.9	4209.3	4133.2	4018.8	3932.2	3765.8	3637.8
37°	4054.2	4064.0	4015.0	3991.7	3929.2	3853.9	3811.0	3664.2	3563.3	3438.3	3265.2
38°	3682.3	3667.9	3610.0	3624.3	3538.5	3460.2	3338.9	3251.6	3138.7	3022.7	2884.2
39°	3217.7	3182.4	3113.1	3116.1	3051.4	2963.3	2845.8	2742.7	2674.9	2563.5	2431.0
40°	2648.6	2633.5	2609.4	2569.5	2484.4	2446.1	2341.4	2230.0	2172.8	2018.4	1953.7
42.5°	1469.6	1449.3	1408.6	1394.3	1349.1	1304.0	1243.0	1168.4	1132.3	1086.4	984.0
45°	600.8	640.7	630.9	619.6	585.0	587.2	543.6	548.8	508.9	481.8	463.0
47.5°	132.5	143.8	144.5	139.3	144.5	140.0	137.8	134.0	134.8	137.0	131.8
50°	60.2	59.5	61.0	60.2	59.5	58.7	58.0	55.7	57.2	55.7	54.2
52.5°	23.3	24.1	24.1	22.6	23.3	23.3	23.3	22.6	22.6	22.6	22.6
55°	7.5	7.5	7.5	6.8	6.8	7.5	7.5	7.5	7.5	7.5	6.8
57.5°	0.8	1.5	0.8	1.5	0.8	0.8	0.8	0.8	0.8	1.5	1.5
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: P1308921

CATALOG NUMBER: P3SQAS09R209035DE010 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: P3SQAS09R209035DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (continued):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1
2.5°	34.6	31.6	29.4	27.1	22.6	18.8	17.3	17.3
5°	53.5	41.4	30.9	24.8	17.3	11.3	9.0	8.3
7.5°	80.6	55.7	32.4	21.1	11.3	6.0	3.8	3.0
10°	116.7	72.3	33.9	17.3	6.8	2.3	0.0	0.0
12.5°	204.0	86.6	33.9	13.6	3.0	0.0	0.0	0.0
15°	467.5	97.1	32.4	9.8	0.8	0.0	0.0	0.0
17.5°	971.2	122.0	28.6	6.8	0.0	0.0	0.0	0.0
20°	1550.9	158.9	22.6	3.8	0.0	0.0	0.0	0.0
21°	1789.6	171.7	20.3	3.0	0.0	0.0	0.0	0.0
22°	1961.2	183.7	18.1	2.3	0.0	0.0	0.0	0.0
23°	2150.2	191.2	15.8	1.5	0.0	0.0	0.0	0.0
24°	2289.5	195.7	13.6	1.5	0.0	0.0	0.0	0.0
25°	2376.0	195.7	12.0	1.5	0.0	0.0	0.0	0.0
26°	2427.2	191.2	10.5	0.8	0.0	0.0	0.0	0.0
27°	2439.3	183.7	9.0	0.8	0.0	0.0	0.0	0.0
28°	2424.2	173.9	7.5	0.0	0.0	0.0	0.0	0.0
29°	2376.8	159.6	6.8	0.0	0.0	0.0	0.0	0.0
30°	2325.6	144.5	5.3	0.0	0.0	0.0	0.0	0.0
31°	2238.3	124.2	4.5	0.0	0.0	0.0	0.0	0.0
32°	2137.4	103.1	3.8	0.0	0.0	0.0	0.0	0.0
33°	2002.6	81.3	3.0	0.0	0.0	0.0	0.0	0.0
34°	1803.9	64.0	3.0	0.0	0.0	0.0	0.0	0.0
35°	1625.4	51.9	2.3	0.0	0.0	0.0	0.0	0.0
36°	1392.0	41.4	2.3	0.0	0.0	0.0	0.0	0.0
37°	1192.5	34.6	2.3	0.0	0.0	0.0	0.0	0.0
38°	998.3	29.4	1.5	0.0	0.0	0.0	0.0	0.0
39°	810.1	25.6	1.5	0.0	0.0	0.0	0.0	0.0
40°	646.0	22.6	1.5	0.0	0.0	0.0	0.0	0.0
42.5°	348.6	15.1	0.0	0.0	0.0	0.0	0.0	0.0
45°	192.7	9.8	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	85.1	5.3	0.0	0.0	0.0	0.0	0.0	0.0
50°	28.6	2.3	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	14.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	6.8	0.0	0.0	0.8	0.0	0.0	0.0	0.0
57.5°	1.5	0.0	0.0	0.8	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.8	1.5	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.8	1.5	0.8	0.0	0.0	0.0
65°	0.0	0.0	1.5	1.5	0.8	0.0	0.0	0.0
67.5°	0.0	0.8	1.5	2.3	0.8	0.0	0.0	0.0
70°	0.0	0.8	1.5	2.3	0.8	0.0	0.0	0.0
72.5°	0.0	0.8	1.5	2.3	0.8	0.0	0.0	0.0
75°	0.0	0.8	1.5	2.3	0.8	0.0	0.0	0.0
77.5°	0.0	0.8	1.5	2.3	0.8	0.0	0.0	0.0
80°	0.0	0.8	1.5	2.3	0.8	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	0.8	1.5	2.3	0.8	0.0	0.0	0.0
85°	0.0	0.8	1.5	2.3	0.8	0.0	0.0	0.0
87.5°	0.0	0.8	1.5	2.3	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)