

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: P1312218

Luminaire Tested: P3SQAS09R159727DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1312218
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-47)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS09R159727DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R15 optic, 2700K CCT AND, 97CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

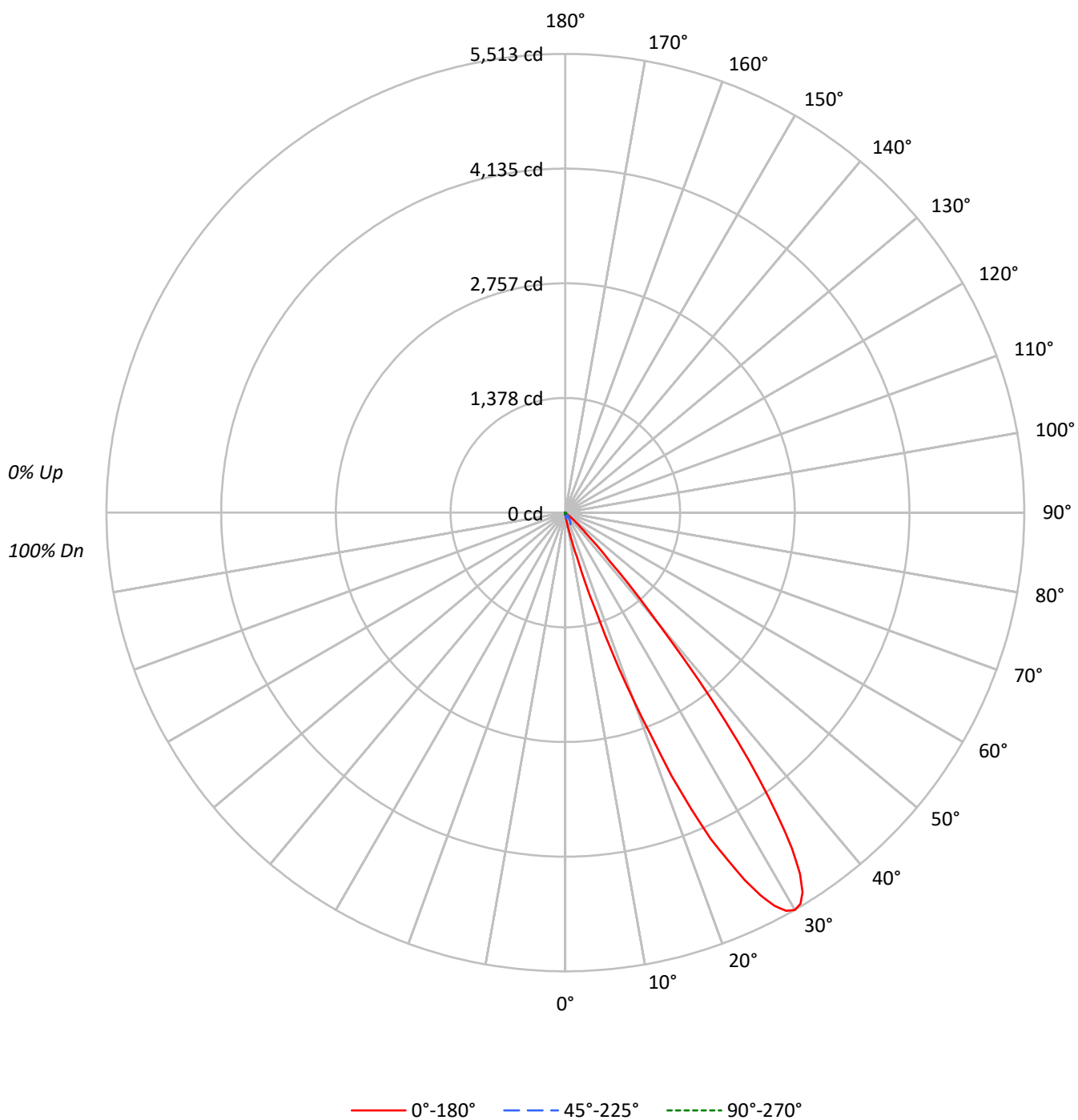
Lumens per Lamp: N/A
Luminaire Lumens: 583.0 lumens
Efficiency: N/A
Efficacy: 52.5 lumens/watt
Spacing Criteria (0/90/45): 2.33 / 0.38 / 1.17
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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

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Luminous Intensity Polar Plot





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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	94	92			
2	106	100	96	92	104	99	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	78	73	91	83	77	72	81	75	71	79	74	70	77	73	70	68			
5	87	77	70	65	85	76	70	65	74	68	64	72	67	63	71	66	63	61			
6	81	71	63	58	79	70	63	58	68	62	58	67	61	57	65	60	57	55			
7	76	65	57	52	74	64	57	52	63	56	52	61	56	52	60	55	51	50			
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	46	45			
9	66	55	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	41			
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°	3582	3582	3582	3582	3582
5°	10390	7849	3077	1279	847
10°	27019	11682	2029	0	0
15°	107995	19131	1088	0	0
20°	441236	28206	330	0	0
25°	872222	27953	0	0	0
30°	1096266	22074	0	0	0
35°	935359	13540	0	0	0
40°	385095	4272	0	0	0
45°	83322	1802	0	0	0
50°	10664	0	0	0	0
55°	931	0	180	0	0
60°	0	0	413	0	0
65°	0	0	489	0	0
70°	0	302	906	0	0
75°	0	399	1198	0	0
80°	0	595	1785	0	0
85°	0	1186	3557	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2°

Vertical Angle: 45°

Luminance: 87194 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.8	0.5
10°-20°	40.9	7.0
20°-30°	238.1	40.8
30°-40°	255.3	43.8
40°-50°	43.1	7.4
50°-60°	1.3	0.2
60°-70°	0.4	0.1
70°-80°	0.6	0.1
80°-90°	0.5	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°	281.8	48.3
0°-40°	537.1	92.1
0°-60°	581.5	99.8
0°-90°	583.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	583.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	21	21	21	21	21	
5°	60	45	18	7	5	8
15°	606	107	6	0	0	280
25°	4590	147	0	0	0	2077
35°	4449	64	0	0	0	2557
45°	342	7	0	0	0	404
55°	3	0	1	0	0	8
65°	0	0	1	0	0	0
75°	0	1	2	0	0	0
85°	0	1	2	0	0	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8
2.5°	38.0	38.6	39.2	39.2	39.2	39.2	38.6	38.6	38.6	38.6	38.0
5°	60.1	60.1	60.1	60.1	60.1	60.1	59.5	59.5	59.5	59.5	59.5
7.5°	85.8	84.6	85.2	83.4	84.6	84.0	83.4	84.6	84.6	81.5	81.5
10°	154.5	153.9	147.7	149.0	150.2	149.6	149.6	145.9	145.3	142.8	140.4
12.5°	297.9	304.7	309.6	309.6	297.9	302.2	294.3	296.1	297.3	293.7	280.8
15°	605.7	616.7	605.1	616.1	611.8	595.9	578.1	554.2	563.4	546.8	541.3
17.5°	1326.7	1351.8	1341.4	1290.5	1307.0	1267.8	1243.3	1234.1	1208.3	1131.7	1099.8
20°	2407.5	2438.1	2409.3	2349.8	2368.8	2294.7	2275.7	2257.9	2143.9	2102.2	1968.5
21°	2862.4	2887.5	2898.5	2836.6	2798.6	2739.7	2690.7	2674.8	2605.5	2525.2	2387.9
22°	3411.7	3382.2	3316.0	3324.6	3268.2	3219.8	3151.7	3087.4	3010.1	2897.9	2784.5
23°	3866.5	3832.2	3800.9	3762.9	3702.2	3667.9	3570.4	3499.9	3399.4	3279.2	3170.1
24°	4290.2	4237.4	4217.8	4150.4	4133.2	4056.0	3976.9	3884.9	3763.6	3635.4	3514.7
25°	4590.0	4597.9	4580.8	4572.8	4485.1	4406.0	4327.6	4185.9	4082.3	3968.9	3783.2
26°	4911.2	4914.9	4906.3	4847.4	4768.4	4691.1	4590.0	4466.7	4316.5	4190.9	4022.9
27°	5157.0	5142.3	5130.1	5060.2	4995.2	4897.7	4805.7	4659.8	4513.3	4363.7	4168.8
28°	5353.2	5325.6	5310.3	5250.2	5174.2	5054.6	4941.8	4805.7	4659.2	4498.6	4287.7
29°	5471.5	5442.1	5424.9	5358.7	5271.1	5166.2	5052.2	4902.6	4745.1	4566.0	4353.9
30°	5512.6	5495.4	5468.5	5399.8	5309.1	5199.9	5082.8	4920.4	4755.5	4572.2	4347.8
31°	5485.6	5463.6	5437.8	5363.6	5265.5	5161.3	5025.2	4854.8	4681.3	4506.6	4268.7
32°	5378.3	5364.9	5333.6	5234.3	5154.6	5019.7	4885.4	4726.0	4536.6	4349.0	4133.8
33°	5177.3	5155.2	5128.2	5037.5	4935.7	4806.4	4672.7	4509.6	4321.4	4123.4	3886.8
34°	4870.7	4842.5	4808.8	4748.1	4618.2	4506.0	4351.5	4160.8	4005.1	3815.0	3601.1
35°	4448.9	4407.9	4367.4	4321.4	4175.5	4071.9	3967.7	3801.6	3651.4	3472.3	3230.2
36°	3975.7	3959.7	3926.6	3805.2	3758.0	3617.0	3533.0	3342.4	3221.0	3045.7	2845.8
37°	3440.5	3346.7	3394.5	3326.4	3184.2	3140.1	3040.1	2876.5	2745.3	2560.1	2415.4
38°	2866.7	2805.3	2839.1	2770.4	2696.2	2594.5	2518.4	2398.9	2251.8	2106.5	1969.1
39°	2272.0	2222.3	2259.1	2212.5	2099.7	2057.4	1990.0	1898.6	1780.3	1666.9	1536.9
40°	1712.9	1649.1	1698.2	1632.0	1580.5	1511.2	1476.9	1392.9	1319.3	1251.2	1168.5
42.5°	782.3	775.5	764.5	740.6	735.1	735.7	693.4	665.8	628.4	584.9	558.5
45°	342.1	350.7	358.0	344.5	343.9	336.6	334.1	315.7	308.4	294.3	277.1
47.5°	168.6	171.7	169.8	173.5	170.4	165.5	164.3	161.8	154.5	153.9	145.9
50°	39.8	39.2	39.2	39.8	39.2	39.2	38.6	37.4	36.8	37.4	35.6
52.5°	12.9	13.5	12.9	12.3	12.9	13.5	12.9	12.9	12.9	12.9	12.9
55°	3.1	3.1	3.1	3.1	3.1	3.1	2.5	2.5	3.1	3.1	3.1
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



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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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CANDELA DISTRIBUTION (continued):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8
2.5°	37.4	31.9	26.4	20.8	15.3	12.3	11.6	11.0
5°	56.4	45.4	30.0	17.8	10.4	7.4	5.5	4.9
7.5°	76.0	56.4	33.1	14.7	7.4	3.1	1.2	0.6
10°	109.1	66.8	34.3	11.6	3.7	0.0	0.0	0.0
12.5°	214.0	76.6	33.7	9.2	0.6	0.0	0.0	0.0
15°	355.6	107.3	31.3	6.1	0.0	0.0	0.0	0.0
17.5°	582.4	138.6	27.0	4.3	0.0	0.0	0.0	0.0
20°	903.0	153.9	20.8	1.8	0.0	0.0	0.0	0.0
21°	1058.7	155.1	18.4	1.2	0.0	0.0	0.0	0.0
22°	1193.6	155.1	15.9	0.6	0.0	0.0	0.0	0.0
23°	1318.7	153.3	14.1	0.0	0.0	0.0	0.0	0.0
24°	1421.7	150.8	12.9	0.0	0.0	0.0	0.0	0.0
25°	1498.9	147.1	11.6	0.0	0.0	0.0	0.0	0.0
26°	1534.5	142.2	9.8	0.0	0.0	0.0	0.0	0.0
27°	1552.3	135.5	8.6	0.0	0.0	0.0	0.0	0.0
28°	1540.0	128.1	7.4	0.0	0.0	0.0	0.0	0.0
29°	1509.3	120.2	5.5	0.0	0.0	0.0	0.0	0.0
30°	1469.5	111.0	4.3	0.0	0.0	0.0	0.0	0.0
31°	1411.3	101.8	3.1	0.0	0.0	0.0	0.0	0.0
32°	1331.6	92.6	2.5	0.0	0.0	0.0	0.0	0.0
33°	1224.9	82.8	1.2	0.0	0.0	0.0	0.0	0.0
34°	1093.1	73.0	0.6	0.0	0.0	0.0	0.0	0.0
35°	945.3	64.4	0.0	0.0	0.0	0.0	0.0	0.0
36°	818.4	55.2	0.0	0.0	0.0	0.0	0.0	0.0
37°	690.9	44.1	0.0	0.0	0.0	0.0	0.0	0.0
38°	578.7	34.9	0.0	0.0	0.0	0.0	0.0	0.0
39°	478.8	28.2	0.0	0.0	0.0	0.0	0.0	0.0
40°	396.6	19.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	219.5	12.9	0.0	0.0	0.0	0.0	0.0	0.0
45°	133.0	7.4	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	77.2	2.5	0.0	0.0	0.0	0.0	0.0	0.0
50°	29.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	9.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	2.5	0.0	0.0	0.6	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.6	1.2	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.6	1.2	0.6	0.0	0.0	0.0
65°	0.0	0.0	1.2	1.2	0.6	0.0	0.0	0.0
67.5°	0.0	0.0	1.2	1.8	0.6	0.0	0.0	0.0
70°	0.0	0.6	1.2	1.8	0.6	0.0	0.0	0.0
72.5°	0.0	0.6	1.2	1.8	0.6	0.0	0.0	0.0
75°	0.0	0.6	1.2	1.8	0.6	0.0	0.0	0.0
77.5°	0.0	0.6	1.2	1.8	0.6	0.0	0.0	0.0
80°	0.0	0.6	1.2	1.8	0.6	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	0.6	1.2	1.8	0.6	0.0	0.0	0.0
85°	0.0	0.6	1.2	1.8	0.6	0.0	0.0	0.0
87.5°	0.0	0.6	1.2	1.8	0.6	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)