

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: P1317811

Luminaire Tested: P3SQAS09R209835DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1317811
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: P3SQAS09R209835DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R20 optic, 3500K CCT AND, 98CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

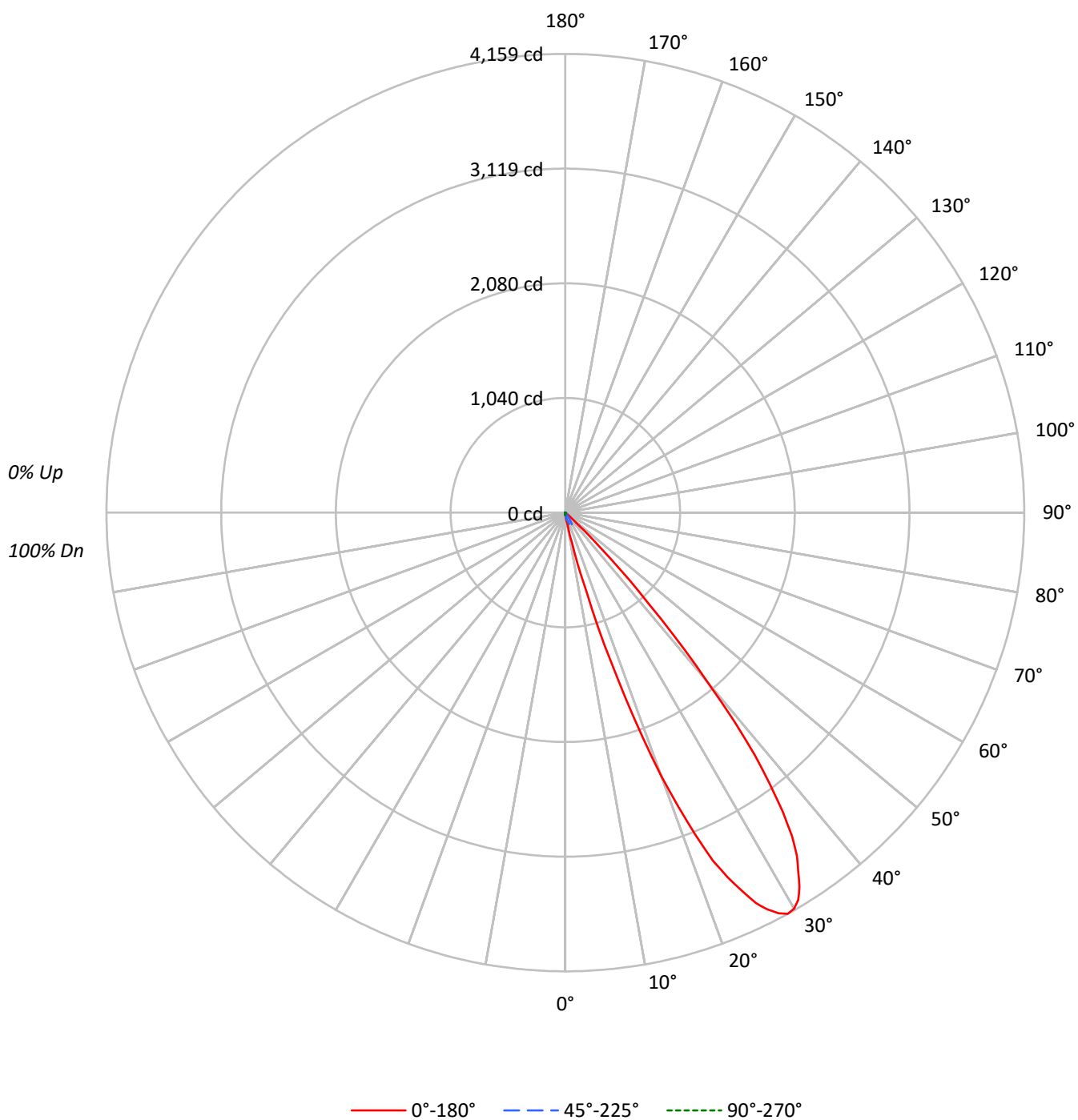
Lumens per Lamp: N/A
Luminaire Lumens: 574.0 lumens
Efficiency: N/A
Efficacy: 52.2 lumens/watt
Spacing Criteria (0/90/45): 2.28 / 0.42 / 1.12
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11
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	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°	3548	3548	3548	3548	3548
5°	7693	5428	3250	1487	1089
10°	19167	9583	2291	297	0
15°	134865	13123	1319	0	0
20°	466106	22085	531	0	0
25°	718453	28200	209	0	0
30°	824656	21796	0	0	0
35°	753140	8284	0	0	0
40°	451507	3844	0	0	0
45°	110941	1802	0	0	0
50°	12244	455	0	0	0
55°	1711	0	180	0	0
60°	0	0	379	0	0
65°	0	0	448	0	0
70°	0	302	856	0	0
75°	0	399	1131	0	0
80°	0	595	1686	0	0
85°	0	1186	3359	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 1°

Vertical Angle: 45°

Luminance: 118321 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.3	0.4
10°-20°	44.8	7.8
20°-30°	226.8	39.5
30°-40°	245.3	42.7
40°-50°	51.8	9.0
50°-60°	1.6	0.3
60°-70°	0.4	0.1
70°-80°	0.5	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°	273.9	47.7
0°-40°	519.2	90.5
0°-60°	572.6	99.8
0°-90°	574.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	574.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	21	21	21	21	21	
5°	44	31	19	9	6	6
15°	756	74	7	0	0	315
25°	3781	148	1	0	0	1709
35°	3582	39	0	0	0	2112
45°	456	7	0	0	0	501
55°	6	0	1	0	0	10
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°	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6
2.5°	28.0	27.4	28.0	27.4	28.0	28.0	28.0	27.4	27.4	27.4	27.4
5°	44.5	44.5	44.0	44.5	44.5	44.5	44.5	44.0	44.0	43.4	43.4
7.5°	70.2	70.2	69.6	69.6	70.2	70.8	68.5	69.6	69.6	69.6	69.1
10°	109.6	111.9	109.6	112.5	110.2	108.5	111.3	108.5	108.5	107.9	106.2
12.5°	276.3	270.0	266.0	256.3	266.0	258.6	260.3	258.6	252.9	245.5	240.9
15°	756.4	756.4	734.1	763.8	742.1	750.1	709.0	709.6	688.5	665.6	653.1
17.5°	1581.3	1595.6	1580.7	1571.6	1552.2	1524.2	1512.8	1483.7	1445.4	1400.9	1395.8
20°	2543.2	2483.3	2511.2	2485.5	2469.6	2435.3	2397.1	2373.1	2339.4	2282.9	2199.5
21°	2845.8	2843.5	2842.9	2842.3	2818.9	2763.0	2728.2	2680.2	2632.8	2574.6	2504.9
22°	3150.6	3161.4	3166.0	3132.9	3084.9	3059.8	3035.9	2970.2	2895.4	2865.2	2782.4
23°	3430.3	3420.0	3390.4	3374.9	3337.8	3330.4	3259.1	3217.4	3144.3	3111.2	3013.0
24°	3621.0	3615.8	3602.1	3579.3	3549.6	3504.0	3461.1	3395.5	3335.6	3281.3	3190.0
25°	3780.8	3785.4	3760.3	3744.9	3712.9	3661.5	3609.0	3537.1	3481.1	3417.8	3312.1
26°	3939.0	3907.0	3887.0	3864.2	3829.4	3770.6	3719.7	3655.2	3587.3	3516.5	3413.2
27°	4036.6	4008.0	3977.8	3955.5	3915.6	3859.6	3805.4	3734.0	3658.1	3586.7	3480.6
28°	4113.6	4082.2	4052.6	4025.7	3980.1	3920.1	3855.0	3782.5	3703.8	3630.1	3521.7
29°	4159.3	4122.2	4090.2	4060.0	4018.3	3953.2	3887.6	3809.9	3734.0	3656.9	3546.2
30°	4146.8	4114.8	4084.0	4053.1	4010.9	3949.8	3884.7	3810.5	3734.0	3658.1	3545.6
31°	4097.7	4058.3	4036.0	4005.2	3968.6	3906.4	3850.5	3769.4	3700.3	3618.1	3505.7
32°	4003.5	3978.3	3948.7	3924.7	3889.3	3823.1	3768.3	3702.0	3620.4	3553.1	3434.9
33°	3875.6	3852.2	3837.3	3809.4	3775.1	3729.4	3663.8	3603.3	3511.4	3442.3	3324.1
34°	3753.4	3723.7	3686.6	3678.6	3649.0	3590.2	3530.8	3469.1	3386.9	3299.0	3179.7
35°	3582.2	3551.3	3517.1	3519.9	3484.5	3416.0	3355.5	3286.5	3208.3	3104.9	2991.9
36°	3353.3	3332.7	3327.6	3313.9	3273.3	3191.7	3134.0	3047.3	2981.6	2855.5	2758.4
37°	3074.1	3081.5	3044.4	3026.7	2979.3	2922.2	2889.7	2778.4	2701.9	2607.1	2475.8
38°	2792.1	2781.2	2737.3	2748.1	2683.1	2623.7	2531.8	2465.6	2379.9	2292.0	2187.0
39°	2439.9	2413.0	2360.5	2362.8	2313.7	2246.9	2157.9	2079.7	2028.3	1943.8	1843.3
40°	2008.3	1996.9	1978.6	1948.4	1883.8	1854.7	1775.4	1690.9	1647.5	1530.5	1481.4
42.5°	1114.3	1098.9	1068.1	1057.2	1023.0	988.7	942.5	886.0	858.6	823.8	746.1
45°	455.5	485.8	478.4	469.8	443.6	445.3	412.2	416.2	385.9	365.4	351.1
47.5°	100.5	109.0	109.6	105.6	109.6	106.2	104.5	101.6	102.2	103.9	99.9
50°	45.7	45.1	46.2	45.7	45.1	44.5	44.0	42.2	43.4	42.2	41.1
52.5°	17.7	18.3	18.3	17.1	17.7	17.7	17.7	17.1	17.1	17.1	17.1
55°	5.7	5.7	5.7	5.1	5.1	5.7	5.7	5.7	5.7	5.7	5.1
57.5°	0.6	1.1	0.6	1.1	0.6	0.6	0.6	0.6	0.6	1.1	1.1
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°	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6
2.5°	26.3	24.0	22.3	20.6	17.1	14.3	13.1	13.1
5°	40.5	31.4	23.4	18.8	13.1	8.6	6.9	6.3
7.5°	61.1	42.2	24.5	16.0	8.6	4.6	2.9	2.3
10°	88.5	54.8	25.7	13.1	5.1	1.7	0.0	0.0
12.5°	154.7	65.6	25.7	10.3	2.3	0.0	0.0	0.0
15°	354.5	73.6	24.5	7.4	0.6	0.0	0.0	0.0
17.5°	736.4	92.5	21.7	5.1	0.0	0.0	0.0	0.0
20°	1176.0	120.5	17.1	2.9	0.0	0.0	0.0	0.0
21°	1356.9	130.2	15.4	2.3	0.0	0.0	0.0	0.0
22°	1487.1	139.3	13.7	1.7	0.0	0.0	0.0	0.0
23°	1630.4	145.0	12.0	1.1	0.0	0.0	0.0	0.0
24°	1736.0	148.4	10.3	1.1	0.0	0.0	0.0	0.0
25°	1801.6	148.4	9.1	1.1	0.0	0.0	0.0	0.0
26°	1840.5	145.0	8.0	0.6	0.0	0.0	0.0	0.0
27°	1849.6	139.3	6.9	0.6	0.0	0.0	0.0	0.0
28°	1838.2	131.9	5.7	0.0	0.0	0.0	0.0	0.0
29°	1802.2	121.0	5.1	0.0	0.0	0.0	0.0	0.0
30°	1763.4	109.6	4.0	0.0	0.0	0.0	0.0	0.0
31°	1697.2	94.2	3.4	0.0	0.0	0.0	0.0	0.0
32°	1620.7	78.2	2.9	0.0	0.0	0.0	0.0	0.0
33°	1518.5	61.7	2.3	0.0	0.0	0.0	0.0	0.0
34°	1367.8	48.5	2.3	0.0	0.0	0.0	0.0	0.0
35°	1232.5	39.4	1.7	0.0	0.0	0.0	0.0	0.0
36°	1055.5	31.4	1.7	0.0	0.0	0.0	0.0	0.0
37°	904.2	26.3	1.7	0.0	0.0	0.0	0.0	0.0
38°	757.0	22.3	1.1	0.0	0.0	0.0	0.0	0.0
39°	614.2	19.4	1.1	0.0	0.0	0.0	0.0	0.0
40°	489.8	17.1	1.1	0.0	0.0	0.0	0.0	0.0
42.5°	264.3	11.4	0.0	0.0	0.0	0.0	0.0	0.0
45°	146.1	7.4	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	64.5	4.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	21.7	1.7	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	10.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	5.1	0.0	0.0	0.6	0.0	0.0	0.0	0.0
57.5°	1.1	0.0	0.0	0.6	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.6	1.1	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.6	1.1	0.6	0.0	0.0	0.0
65°	0.0	0.0	1.1	1.1	0.6	0.0	0.0	0.0
67.5°	0.0	0.6	1.1	1.7	0.6	0.0	0.0	0.0
70°	0.0	0.6	1.1	1.7	0.6	0.0	0.0	0.0
72.5°	0.0	0.6	1.1	1.7	0.6	0.0	0.0	0.0
75°	0.0	0.6	1.1	1.7	0.6	0.0	0.0	0.0
77.5°	0.0	0.6	1.1	1.7	0.6	0.0	0.0	0.0
80°	0.0	0.6	1.1	1.7	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	1.1	1.7	0.6	0.0	0.0	0.0
85°	0.0	0.6	1.1	1.7	0.6	0.0	0.0	0.0
87.5°	0.0	0.6	1.1	1.7	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)