

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: P1308748

Luminaire Tested: P3SQAS05R159035DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1308748
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: P3SQAS05R159035DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R15 optic, 3500K CCT AND, 90CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

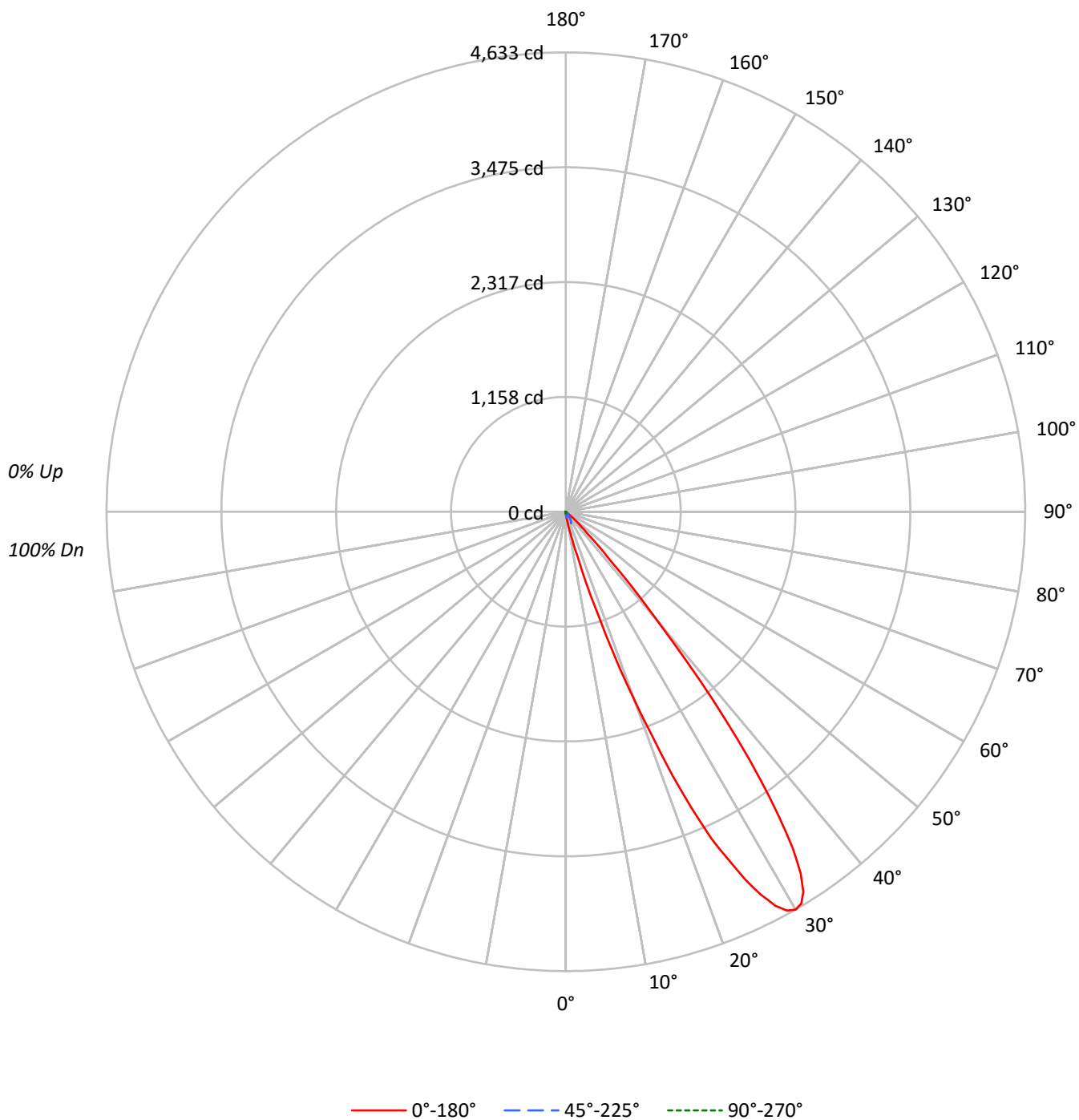
Lumens per Lamp: N/A
Luminaire Lumens: 490.0 lumens
Efficiency: N/A
Efficacy: 68.1 lumens/watt
Spacing Criteria (0/90/45): 2.33 / 0.38 / 1.17
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 7.2
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	58	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°	3014	3014	3014	3014	3014
5°	8730	6587	2576	1072	709
10°	22699	9828	1714	0	0
15°	90772	16082	927	0	0
20°	370840	23698	275	0	0
25°	733085	23506	0	0	0
30°	921384	18554	0	0	0
35°	786169	11374	0	0	0
40°	323652	3597	0	0	0
45°	70023	1510	0	0	0
50°	8976	0	0	0	0
55°	781	0	150	0	0
60°	0	0	344	0	0
65°	0	0	408	0	0
70°	0	252	755	0	0
75°	0	333	998	0	0
80°	0	496	1488	0	0
85°	0	988	2964	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2°

Vertical Angle: 45°

Luminance: 73287 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.4	0.5
10°-20°	34.3	7.0
20°-30°	200.2	40.9
30°-40°	214.6	43.8
40°-50°	36.2	7.4
50°-60°	1.1	0.2
60°-70°	0.3	0.1
70°-80°	0.5	0.1
80°-90°	0.4	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°	236.8	48.3
0°-40°	451.5	92.1
0°-60°	488.8	99.8
0°-90°	490.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	490.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	18	18	18	18	18	
5°	50	38	15	6	4	7
15°	509	90	5	0	0	235
25°	3858	124	0	0	0	1745
35°	3739	54	0	0	0	2149
45°	288	6	0	0	0	340
55°	3	0	0	0	0	7
65°	0	0	1	0	0	0
75°	0	0	2	0	0	0
85°	0	0	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°	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5
2.5°	31.9	32.5	33.0	33.0	33.0	33.0	32.5	32.5	32.5	32.5	31.9
5°	50.5	50.5	50.5	50.5	50.5	50.5	50.0	50.0	50.0	50.0	50.0
7.5°	72.1	71.1	71.6	70.1	71.1	70.6	70.1	71.1	71.1	68.5	68.5
10°	129.8	129.3	124.2	125.2	126.2	125.7	125.7	122.6	122.1	120.1	118.0
12.5°	250.4	256.1	260.2	260.2	250.4	254.0	247.3	248.9	249.9	246.8	236.0
15°	509.1	518.4	508.6	517.8	514.2	500.8	485.9	465.8	473.5	459.6	455.0
17.5°	1115.0	1136.2	1127.4	1084.6	1098.5	1065.6	1045.0	1037.2	1015.6	951.2	924.4
20°	2023.4	2049.2	2025.0	1975.0	1991.0	1928.6	1912.7	1897.7	1801.9	1766.8	1654.5
21°	2405.8	2426.9	2436.2	2384.1	2352.2	2302.7	2261.5	2248.1	2189.9	2122.4	2006.9
22°	2867.4	2842.7	2787.0	2794.3	2746.9	2706.2	2649.0	2594.9	2529.9	2435.6	2340.3
23°	3249.8	3220.9	3194.6	3162.7	3111.7	3082.8	3000.9	2941.6	2857.1	2756.1	2664.4
24°	3605.8	3561.5	3545.0	3488.3	3473.9	3409.0	3342.5	3265.2	3163.2	3055.5	2954.0
25°	3857.8	3864.5	3850.0	3843.3	3769.7	3703.2	3637.2	3518.2	3431.1	3335.8	3179.7
26°	4127.8	4130.9	4123.6	4074.2	4007.7	3942.8	3857.8	3754.2	3628.0	3522.3	3381.1
27°	4334.4	4322.0	4311.7	4253.0	4198.4	4116.4	4039.1	3916.5	3793.4	3667.6	3503.8
28°	4499.3	4476.1	4463.2	4412.7	4348.8	4248.3	4153.5	4039.1	3916.0	3781.0	3603.7
29°	4598.7	4574.0	4559.5	4503.9	4430.2	4342.1	4246.3	4120.5	3988.1	3837.7	3659.4
30°	4633.2	4618.8	4596.1	4538.4	4462.2	4370.4	4272.0	4135.5	3996.9	3842.8	3654.2
31°	4610.6	4592.0	4570.4	4508.0	4425.6	4338.0	4223.6	4080.4	3934.5	3787.7	3587.8
32°	4520.4	4509.1	4482.8	4399.3	4332.3	4219.0	4106.1	3972.2	3812.9	3655.3	3474.4
33°	4351.4	4332.8	4310.2	4233.9	4148.4	4039.7	3927.3	3790.3	3632.1	3465.6	3266.8
34°	4093.8	4070.1	4041.7	3990.7	3881.5	3787.2	3657.3	3497.1	3366.2	3206.5	3026.6
35°	3739.3	3704.7	3670.7	3632.1	3509.4	3422.4	3334.8	3195.1	3068.9	2918.4	2714.9
36°	3341.5	3328.1	3300.3	3198.2	3158.6	3040.0	2969.5	2809.2	2707.2	2559.8	2391.8
37°	2891.6	2812.8	2853.0	2795.8	2676.3	2639.2	2555.2	2417.6	2307.3	2151.7	2030.1
38°	2409.4	2357.8	2386.2	2328.5	2266.1	2180.6	2116.7	2016.2	1892.6	1770.4	1655.0
39°	1909.6	1867.8	1898.7	1859.6	1764.8	1729.2	1672.5	1595.8	1496.3	1401.0	1291.8
40°	1439.6	1386.1	1427.3	1371.6	1328.3	1270.1	1241.3	1170.7	1108.8	1051.6	982.1
42.5°	657.5	651.8	642.5	622.4	617.8	618.3	582.8	559.6	528.1	491.6	469.4
45°	287.5	294.7	300.9	289.6	289.1	282.9	280.8	265.4	259.2	247.3	232.9
47.5°	141.7	144.3	142.7	145.8	143.2	139.1	138.1	136.0	129.8	129.3	122.6
50°	33.5	33.0	33.0	33.5	33.0	33.0	32.5	31.4	30.9	31.4	29.9
52.5°	10.8	11.3	10.8	10.3	10.8	11.3	10.8	10.8	10.8	10.8	10.8
55°	2.6	2.6	2.6	2.6	2.6	2.6	2.1	2.1	2.6	2.6	2.6
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°	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5
2.5°	31.4	26.8	22.2	17.5	12.9	10.3	9.8	9.3
5°	47.4	38.1	25.2	14.9	8.8	6.2	4.6	4.1
7.5°	63.9	47.4	27.8	12.4	6.2	2.6	1.0	0.5
10°	91.7	56.2	28.9	9.8	3.1	0.0	0.0	0.0
12.5°	179.8	64.4	28.3	7.7	0.5	0.0	0.0	0.0
15°	298.9	90.2	26.3	5.2	0.0	0.0	0.0	0.0
17.5°	489.5	116.4	22.7	3.6	0.0	0.0	0.0	0.0
20°	759.0	129.3	17.5	1.5	0.0	0.0	0.0	0.0
21°	889.9	130.4	15.5	1.0	0.0	0.0	0.0	0.0
22°	1003.2	130.4	13.4	0.5	0.0	0.0	0.0	0.0
23°	1108.3	128.8	11.9	0.0	0.0	0.0	0.0	0.0
24°	1194.9	126.8	10.8	0.0	0.0	0.0	0.0	0.0
25°	1259.8	123.7	9.8	0.0	0.0	0.0	0.0	0.0
26°	1289.7	119.5	8.2	0.0	0.0	0.0	0.0	0.0
27°	1304.6	113.9	7.2	0.0	0.0	0.0	0.0	0.0
28°	1294.3	107.7	6.2	0.0	0.0	0.0	0.0	0.0
29°	1268.6	101.0	4.6	0.0	0.0	0.0	0.0	0.0
30°	1235.1	93.3	3.6	0.0	0.0	0.0	0.0	0.0
31°	1186.1	85.5	2.6	0.0	0.0	0.0	0.0	0.0
32°	1119.1	77.8	2.1	0.0	0.0	0.0	0.0	0.0
33°	1029.5	69.6	1.0	0.0	0.0	0.0	0.0	0.0
34°	918.7	61.3	0.5	0.0	0.0	0.0	0.0	0.0
35°	794.5	54.1	0.0	0.0	0.0	0.0	0.0	0.0
36°	687.9	46.4	0.0	0.0	0.0	0.0	0.0	0.0
37°	580.7	37.1	0.0	0.0	0.0	0.0	0.0	0.0
38°	486.4	29.4	0.0	0.0	0.0	0.0	0.0	0.0
39°	402.4	23.7	0.0	0.0	0.0	0.0	0.0	0.0
40°	333.4	16.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	184.5	10.8	0.0	0.0	0.0	0.0	0.0	0.0
45°	111.8	6.2	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	64.9	2.1	0.0	0.0	0.0	0.0	0.0	0.0
50°	24.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	8.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	2.1	0.0	0.0	0.5	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.5	1.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.5	1.0	0.5	0.0	0.0	0.0
65°	0.0	0.0	1.0	1.0	0.5	0.0	0.0	0.0
67.5°	0.0	0.0	1.0	1.5	0.5	0.0	0.0	0.0
70°	0.0	0.5	1.0	1.5	0.5	0.0	0.0	0.0
72.5°	0.0	0.5	1.0	1.5	0.5	0.0	0.0	0.0
75°	0.0	0.5	1.0	1.5	0.5	0.0	0.0	0.0
77.5°	0.0	0.5	1.0	1.5	0.5	0.0	0.0	0.0
80°	0.0	0.5	1.0	1.5	0.5	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	0.5	1.0	1.5	0.5	0.0	0.0	0.0
85°	0.0	0.5	1.0	1.5	0.5	0.0	0.0	0.0
87.5°	0.0	0.5	1.0	1.5	0.5	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)