

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: P1312706

Luminaire Tested: P3SQAS20R209727D010 E3SQCA301MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1312706
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-60)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS20R209727D010 E3SQCA301MW
Description: 3in Adjustable LED luminaire with, R20 optic, 2700K CCT AND, 97CRI , E3SQCA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

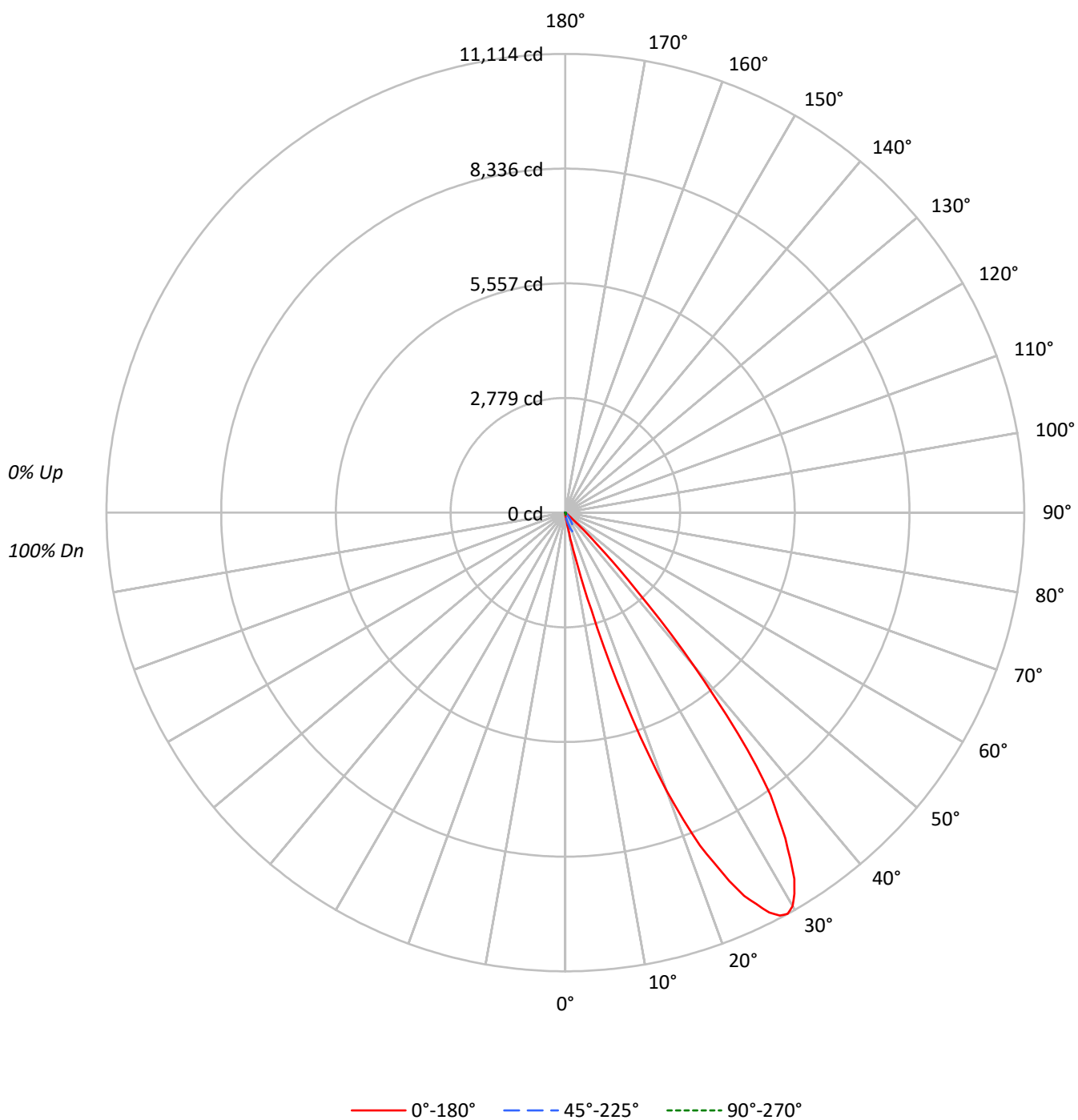
Lumens per Lamp: N/A
Luminaire Lumens: 1559.0 lumens
Efficiency: N/A
Efficacy: 54.1 lumens/watt
Spacing Criteria (0/90/45): 2.3 / 0.53 / 1.19
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 28.8
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			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
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	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	76	71		79	74	71		77	73	70	68
5	87	77	70	65	85	76	70	65	74	69	64		72	68	64		71	67	63	61
6	81	71	64	59	80	70	63	58	68	62	58		67	62	58		65	61	57	55
7	76	65	58	53	74	64	57	53	63	57	52		62	56	52		60	55	52	50
8	71	60	53	48	70	59	52	48	58	52	47		57	51	47		56	51	47	45
9	66	55	48	43	65	54	48	43	53	47	43		52	47	43		51	46	43	41
10	62	51	44	39	61	50	44	39	49	43	39		48	43	39		48	42	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	9248	9248	9248	9248	9248
5°	21282	15888	8800	5377	4650
10°	67031	27701	7170	2973	2221
15°	434263	51189	5295	1016	250
20°	1310621	87624	3629	0	0
25°	1946443	88419	2147	0	0
30°	2188854	67217	835	0	0
35°	1888568	40136	589	0	0
40°	1087503	13669	0	0	0
45°	265261	5504	341	0	341
50°	31830	1527	375	375	1125
55°	4234	0	841	841	1711
60°	482	0	1447	1447	2446
65°	571	571	2323	2323	3464
70°	705	705	2870	2870	3575
75°	0	932	3793	2795	3793
80°	0	1389	4166	2777	4166
85°	0	2766	8299	2766	2766

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 266966 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.2	0.5
10°-20°	144.5	9.3
20°-30°	629.7	40.4
30°-40°	634.2	40.7
40°-50°	127.2	8.2
50°-60°	6.4	0.4
60°-70°	4.2	0.3
70°-80°	3.7	0.2
80°-90°	1.9	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°	781.4	50.1
0°-40°	1415.6	90.8
0°-60°	1549.2	99.4
0°-90°	1559.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1559.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	54	54	54	54	54	
5°	123	92	51	31	27	19
15°	2436	287	30	6	1	954
25°	10243	465	11	0	0	4618
35°	8983	191	3	0	0	5345
45°	1089	23	1	0	1	1186
55°	14	0	3	3	6	26
65°	1	1	6	6	8	1
75°	0	1	6	4	6	1
85°	0	1	4	1	1	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7
2.5°	80.6	80.6	79.2	79.2	77.8	79.2	76.4	77.8	77.8	76.4	69.3
5°	123.1	125.9	124.5	124.5	123.1	124.5	121.6	118.8	116.0	116.0	91.9
7.5°	202.3	200.8	198.0	199.4	195.2	192.4	189.5	188.1	179.6	175.4	120.2
10°	383.3	391.8	384.7	383.3	357.8	356.4	339.5	315.4	294.2	282.9	158.4
12.5°	1055.1	1100.4	1029.7	995.7	975.9	899.5	867.0	783.6	702.9	642.1	200.8
15°	2435.6	2547.3	2404.5	2414.4	2295.5	2077.7	1886.8	1722.7	1528.9	1333.8	287.1
17.5°	4772.1	4681.6	4603.8	4472.3	4230.4	3910.8	3499.2	3081.9	2721.3	2343.6	400.3
20°	7151.1	7070.5	6893.7	6606.6	6298.2	5824.4	5335.1	4708.5	4101.7	3533.1	478.1
21°	7970.0	7943.2	7653.2	7476.4	7001.2	6548.6	5984.3	5313.8	4630.7	3957.4	490.8
22°	8701.3	8540.0	8384.5	8122.8	7650.4	7158.2	6530.2	5824.4	5083.3	4335.1	492.2
23°	9207.6	9134.1	8987.0	8691.4	8221.8	7643.3	6981.4	6243.1	5462.3	4602.4	488.0
24°	9767.7	9674.4	9459.4	9114.3	8640.5	8069.1	7313.8	6581.1	5732.5	4827.3	476.6
25°	10243.0	10097.3	9842.7	9470.7	8953.0	8363.2	7603.7	6798.9	5920.6	4978.6	465.3
26°	10551.3	10472.1	10145.4	9740.9	9186.4	8578.2	7803.1	6965.8	6042.2	5047.9	446.9
27°	10872.4	10726.7	10405.6	9940.3	9339.2	8718.3	7916.3	7046.5	6084.7	5050.8	424.3
28°	11056.2	10897.8	10534.3	10044.9	9438.2	8796.0	7981.4	7071.9	6076.2	5006.9	397.4
29°	11114.2	10914.8	10559.8	10061.9	9462.2	8801.7	7971.5	7035.1	6001.2	4899.4	366.3
30°	11006.7	10803.1	10466.4	9981.3	9385.8	8731.0	7879.5	6913.5	5868.3	4745.3	338.0
31°	10771.9	10599.4	10274.1	9787.5	9216.1	8565.5	7671.6	6714.1	5642.0	4538.8	305.5
32°	10462.2	10292.5	9972.8	9532.9	8951.6	8295.4	7387.3	6402.9	5376.1	4230.4	273.0
33°	9996.9	9899.3	9612.1	9192.1	8610.8	7909.2	7005.4	6030.9	4997.0	3888.1	244.7
34°	9525.9	9402.8	9202.0	8742.3	8117.1	7417.0	6507.6	5517.5	4534.5	3504.8	217.8
35°	8982.7	8909.2	8593.8	8226.0	7598.1	6882.4	5978.6	5018.2	3995.6	3077.7	190.9
36°	8456.6	8343.4	7984.2	7595.2	6985.6	6212.0	5319.5	4417.1	3530.3	2677.4	162.7
37°	7692.8	7520.3	7264.3	6854.1	6141.2	5482.1	4667.5	3830.1	2957.5	2244.6	131.5
38°	6794.7	6714.1	6359.1	5946.1	5356.3	4731.1	3924.9	3214.9	2439.8	1874.1	100.4
39°	5735.3	5733.9	5394.5	5096.0	4519.0	3956.0	3229.0	2609.5	2014.1	1509.1	77.8
40°	4837.2	4670.3	4461.0	4086.2	3643.4	3165.4	2528.9	2042.4	1562.9	1216.4	60.8
42.5°	2536.0	2521.8	2398.8	2117.3	1869.8	1588.4	1263.0	1052.3	823.2	670.4	38.2
45°	1089.1	1096.1	1011.3	968.9	872.7	755.3	637.9	531.8	455.4	369.2	22.6
47.5°	275.8	264.5	261.7	271.6	271.6	263.1	236.2	222.1	205.1	188.1	12.7
50°	118.8	116.0	113.2	113.2	106.1	101.8	94.8	86.3	79.2	70.7	5.7
52.5°	43.8	45.3	46.7	45.3	45.3	43.8	43.8	42.4	38.2	33.9	2.8
55°	14.1	14.1	14.1	15.6	15.6	17.0	17.0	17.0	17.0	15.6	0.0
57.5°	2.8	2.8	4.2	4.2	4.2	4.2	4.2	4.2	5.7	5.7	0.0
60°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	0.0	0.0	0.0	0.0
62.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
65°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
67.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
70°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
72.5°	1.4	0.0	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
75°	0.0	0.0	0.0	1.4	0.0	1.4	1.4	0.0	1.4	1.4	1.4
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4



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CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4
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):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	53.7	53.7	53.7	53.7	53.7	53.7
2.5°	62.2	55.2	46.7	39.6	38.2	36.8
5°	69.3	50.9	38.2	31.1	28.3	26.9
7.5°	75.0	46.7	31.1	22.6	19.8	18.4
10°	77.8	41.0	25.5	17.0	12.7	12.7
12.5°	79.2	35.4	18.4	11.3	7.1	7.1
15°	77.8	29.7	14.1	5.7	1.4	1.4
17.5°	70.7	24.0	8.5	1.4	0.0	0.0
20°	60.8	19.8	5.7	0.0	0.0	0.0
21°	58.0	17.0	4.2	0.0	0.0	0.0
22°	53.7	15.6	2.8	0.0	0.0	0.0
23°	49.5	14.1	2.8	0.0	0.0	0.0
24°	45.3	12.7	1.4	0.0	0.0	0.0
25°	42.4	11.3	1.4	0.0	0.0	0.0
26°	39.6	9.9	1.4	0.0	0.0	0.0
27°	35.4	8.5	0.0	0.0	0.0	0.0
28°	32.5	7.1	0.0	0.0	0.0	0.0
29°	28.3	5.7	0.0	0.0	0.0	0.0
30°	24.0	4.2	0.0	0.0	0.0	0.0
31°	19.8	4.2	0.0	0.0	0.0	0.0
32°	17.0	2.8	0.0	0.0	0.0	0.0
33°	14.1	2.8	0.0	0.0	0.0	0.0
34°	12.7	2.8	0.0	0.0	0.0	0.0
35°	11.3	2.8	0.0	0.0	0.0	0.0
36°	8.5	1.4	0.0	0.0	0.0	0.0
37°	7.1	1.4	0.0	0.0	0.0	0.0
38°	5.7	1.4	0.0	0.0	0.0	0.0
39°	4.2	0.0	0.0	0.0	0.0	0.0
40°	4.2	0.0	0.0	0.0	0.0	0.0
42.5°	1.4	0.0	0.0	0.0	0.0	0.0
45°	0.0	1.4	0.0	0.0	1.4	1.4
47.5°	0.0	1.4	0.0	0.0	1.4	2.8
50°	0.0	1.4	1.4	1.4	2.8	4.2
52.5°	0.0	2.8	1.4	1.4	4.2	4.2
55°	1.4	2.8	1.4	2.8	5.7	5.7
57.5°	1.4	2.8	2.8	4.2	5.7	7.1
60°	2.8	4.2	4.2	4.2	7.1	7.1
62.5°	2.8	4.2	5.7	5.7	7.1	8.5
65°	2.8	5.7	5.7	5.7	7.1	8.5
67.5°	4.2	5.7	5.7	5.7	7.1	8.5
70°	4.2	5.7	5.7	5.7	7.1	7.1
72.5°	4.2	5.7	4.2	5.7	5.7	7.1
75°	4.2	5.7	4.2	4.2	5.7	5.7
77.5°	2.8	4.2	4.2	2.8	4.2	4.2
80°	2.8	4.2	2.8	2.8	4.2	4.2



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	2.8	4.2	2.8	1.4	2.8	2.8
85°	2.8	4.2	2.8	1.4	1.4	1.4
87.5°	2.8	4.2	2.8	1.4	0.0	1.4
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)