

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: P1313678

Luminaire Tested: P3SQAS20R209730D010 E3SQCA301MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1313678
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: P3SQAS20R209730D010 E3SQCA301MW
Description: 3in Adjustable LED luminaire with, R20 optic, 3000K CCT AND, 97CRI , E3SQCA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

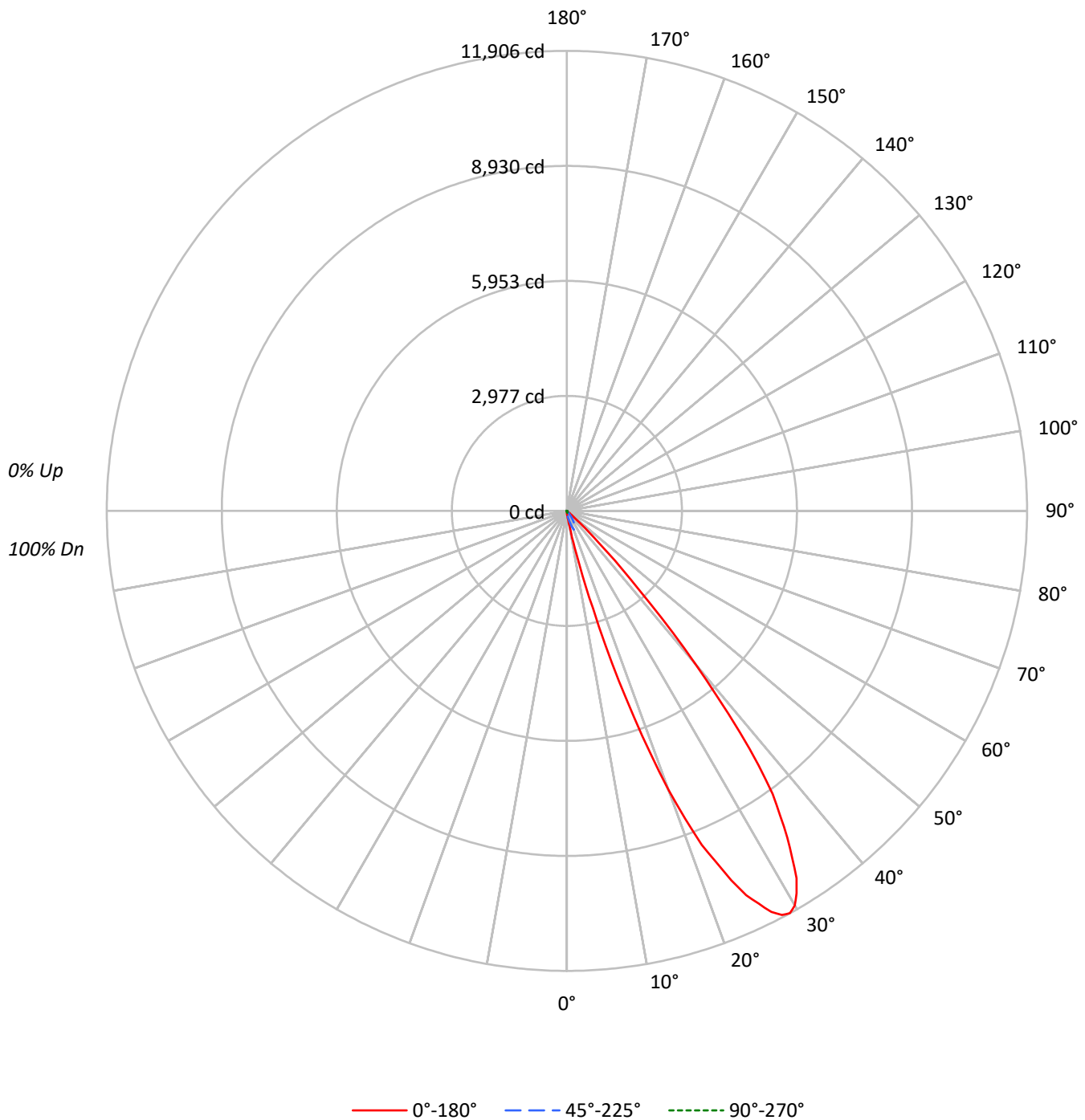
Lumens per Lamp: N/A
Luminaire Lumens: 1670.0 lumens
Efficiency: N/A
Efficacy: 58.0 lumens/watt
Spacing Criteria (0/90/45): 2.29 / 0.53 / 1.19
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1313678

CATALOG NUMBER: P3SQAS20R209730D010 E3SQCA301MW

Luminous Intensity Polar Plot



TEST NUMBER: P1313678

CATALOG NUMBER: P3SQAS20R209730D010 E3SQCA301MW

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	102	102	100
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	93	93	92
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	85	85	83
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	77	77	75
4	93	84	78	73	91	83	77	72	81	76	71	79	74	71	77	73	70	70	70	68
5	87	77	70	65	85	76	70	65	74	69	64	72	68	64	71	67	63	63	63	61
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	57	57	55
7	76	65	58	53	74	64	57	53	63	57	52	62	56	52	60	55	52	52	52	50
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	47	47	45
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	43	43	43	41
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	39	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	9920	9920	9920	9920	9920
5°	22786	17029	9422	5757	4979
10°	71806	29677	7677	3183	2378
15°	465179	54844	5670	1088	267
20°	1403945	93855	3885	0	0
25°	2085030	94728	2299	0	0
30°	2344705	72009	895	0	0
35°	2023041	42995	631	0	0
40°	1164931	14636	0	0	0
45°	284137	5894	365	0	365
50°	34108	1634	402	402	1206
55°	4564	0	901	901	1832
60°	517	0	1550	1550	2618
65°	611	611	2486	2486	3708
70°	755	755	3072	3072	3827
75°	0	998	4059	2994	4059
80°	0	1488	4463	2975	4463
85°	0	2964	8892	2964	2964

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 285988 cd/sqm

TEST NUMBER: P1313678

CATALOG NUMBER: P3SQAS20R209730D010 E3SQCA301MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.7	0.5
10°-20°	154.8	9.3
20°-30°	674.6	40.4
30°-40°	679.3	40.7
40°-50°	136.3	8.2
50°-60°	6.8	0.4
60°-70°	4.5	0.3
70°-80°	4.0	0.2
80°-90°	2.0	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°	837.0	50.1
0°-40°	1516.4	90.8
0°-60°	1659.5	99.4
0°-90°	1670.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1670.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	58	58	58	58	58	
5°	132	98	54	33	29	21
15°	2609	308	32	6	2	1022
25°	10972	498	12	0	0	4947
35°	9622	204	3	0	0	5725
45°	1167	24	2	0	2	1270
55°	15	0	3	3	6	28
65°	2	2	6	6	9	1
75°	0	2	6	4	6	1
85°	0	2	4	2	2	0
90°	0	0	0	0	0	

TEST NUMBER: P1313678

CATALOG NUMBER: P3SQAS20R209730D010 E3SQCA301MW

CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6
2.5°	86.4	86.4	84.8	84.8	83.3	84.8	81.8	83.3	83.3	81.8	74.2
5°	131.8	134.8	133.3	133.3	131.8	133.3	130.3	127.3	124.2	124.2	98.5
7.5°	216.7	215.1	212.1	213.6	209.1	206.1	203.0	201.5	192.4	187.9	128.8
10°	410.6	419.7	412.1	410.6	383.3	381.8	363.6	337.9	315.1	303.0	169.7
12.5°	1130.3	1178.7	1103.0	1066.6	1045.4	963.6	928.7	839.4	753.0	687.8	215.1
15°	2609.0	2728.7	2575.6	2586.3	2459.0	2225.7	2021.1	1845.4	1637.8	1428.7	307.6
17.5°	5111.9	5014.9	4931.6	4790.7	4531.6	4189.2	3748.3	3301.4	2915.0	2510.5	428.8
20°	7660.3	7573.9	7384.5	7077.0	6746.7	6239.1	5714.9	5043.7	4393.7	3784.7	512.1
21°	8537.5	8508.7	8198.1	8008.7	7499.7	7014.8	6410.3	5692.2	4960.4	4239.2	525.7
22°	9320.8	9148.1	8981.4	8701.1	8195.1	7667.8	6995.2	6239.1	5445.2	4643.7	527.2
23°	9863.2	9784.4	9626.9	9310.2	8807.2	8187.5	7478.5	6687.6	5851.3	4930.1	522.7
24°	10463.2	10363.2	10132.9	9763.2	9255.7	8643.6	7834.5	7049.7	6140.6	5171.0	510.6
25°	10972.3	10816.2	10543.5	10145.0	9590.5	8958.7	8145.1	7283.0	6342.1	5333.1	498.5
26°	11302.5	11217.7	10867.7	10434.4	9840.5	9189.0	8358.7	7461.8	6472.4	5407.3	478.8
27°	11646.5	11490.4	11146.5	10648.0	10004.1	9339.0	8479.9	7548.2	6517.9	5410.4	454.5
28°	11843.4	11673.7	11284.4	10760.1	10110.2	9422.3	8549.6	7575.4	6508.8	5363.4	425.7
29°	11905.5	11691.9	11311.6	10778.3	10135.9	9428.4	8539.0	7536.0	6428.5	5248.3	392.4
30°	11790.4	11572.2	11211.6	10692.0	10054.1	9352.6	8440.5	7405.7	6286.1	5083.1	362.1
31°	11538.9	11354.1	11005.6	10484.4	9872.3	9175.4	8217.8	7192.1	6043.7	4861.9	327.3
32°	11207.1	11025.3	10682.9	10211.7	9589.0	8886.0	7913.3	6858.8	5758.8	4531.6	292.4
33°	10708.6	10604.1	10296.5	9846.5	9223.8	8472.4	7504.2	6460.3	5352.8	4165.0	262.1
34°	10204.1	10072.3	9857.1	9364.7	8695.1	7945.1	6970.9	5910.3	4857.4	3754.4	233.3
35°	9622.3	9543.5	9205.7	8811.7	8139.0	7372.4	6404.3	5375.5	4280.1	3296.8	204.5
36°	9058.7	8937.5	8552.7	8136.0	7483.0	6654.3	5698.2	4731.6	3781.7	2868.1	174.2
37°	8240.6	8055.7	7781.5	7342.1	6578.5	5872.5	4999.8	4102.9	3168.0	2404.4	140.9
38°	7278.5	7192.1	6811.8	6369.4	5737.6	5068.0	4204.4	3443.8	2613.5	2007.5	107.6
39°	6143.7	6142.2	5778.5	5458.9	4840.7	4237.7	3458.9	2795.3	2157.5	1616.6	83.3
40°	5181.6	5002.8	4778.6	4377.1	3902.9	3390.8	2709.0	2187.8	1674.2	1303.0	65.1
42.5°	2716.5	2701.4	2569.6	2268.1	2002.9	1701.4	1353.0	1127.2	881.8	718.2	40.9
45°	1166.6	1174.2	1083.3	1037.8	934.8	809.1	683.3	569.7	487.9	395.4	24.2
47.5°	295.4	283.3	280.3	290.9	290.9	281.8	253.0	237.9	219.7	201.5	13.6
50°	127.3	124.2	121.2	121.2	113.6	109.1	101.5	92.4	84.8	75.8	6.1
52.5°	47.0	48.5	50.0	48.5	48.5	47.0	47.0	45.5	40.9	36.4	3.0
55°	15.2	15.2	15.2	16.7	16.7	18.2	18.2	18.2	18.2	16.7	0.0
57.5°	3.0	3.0	4.5	4.5	4.5	4.5	4.5	4.5	6.1	6.1	0.0
60°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	0.0	0.0	0.0	0.0
62.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
65°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
67.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
70°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
72.5°	1.5	0.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
75°	0.0	0.0	0.0	1.5	0.0	1.5	1.5	0.0	1.5	1.5	1.5
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5



TEST NUMBER: P1313678

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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	1.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1313678

CATALOG NUMBER: P3SQAS20R209730D010 E3SQCA301MW

CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	57.6	57.6	57.6	57.6	57.6	57.6
2.5°	66.7	59.1	50.0	42.4	40.9	39.4
5°	74.2	54.5	40.9	33.3	30.3	28.8
7.5°	80.3	50.0	33.3	24.2	21.2	19.7
10°	83.3	43.9	27.3	18.2	13.6	13.6
12.5°	84.8	37.9	19.7	12.1	7.6	7.6
15°	83.3	31.8	15.2	6.1	1.5	1.5
17.5°	75.8	25.8	9.1	1.5	0.0	0.0
20°	65.1	21.2	6.1	0.0	0.0	0.0
21°	62.1	18.2	4.5	0.0	0.0	0.0
22°	57.6	16.7	3.0	0.0	0.0	0.0
23°	53.0	15.2	3.0	0.0	0.0	0.0
24°	48.5	13.6	1.5	0.0	0.0	0.0
25°	45.5	12.1	1.5	0.0	0.0	0.0
26°	42.4	10.6	1.5	0.0	0.0	0.0
27°	37.9	9.1	0.0	0.0	0.0	0.0
28°	34.8	7.6	0.0	0.0	0.0	0.0
29°	30.3	6.1	0.0	0.0	0.0	0.0
30°	25.8	4.5	0.0	0.0	0.0	0.0
31°	21.2	4.5	0.0	0.0	0.0	0.0
32°	18.2	3.0	0.0	0.0	0.0	0.0
33°	15.2	3.0	0.0	0.0	0.0	0.0
34°	13.6	3.0	0.0	0.0	0.0	0.0
35°	12.1	3.0	0.0	0.0	0.0	0.0
36°	9.1	1.5	0.0	0.0	0.0	0.0
37°	7.6	1.5	0.0	0.0	0.0	0.0
38°	6.1	1.5	0.0	0.0	0.0	0.0
39°	4.5	0.0	0.0	0.0	0.0	0.0
40°	4.5	0.0	0.0	0.0	0.0	0.0
42.5°	1.5	0.0	0.0	0.0	0.0	0.0
45°	0.0	1.5	0.0	0.0	1.5	1.5
47.5°	0.0	1.5	0.0	0.0	1.5	3.0
50°	0.0	1.5	1.5	1.5	3.0	4.5
52.5°	0.0	3.0	1.5	1.5	4.5	4.5
55°	1.5	3.0	1.5	3.0	6.1	6.1
57.5°	1.5	3.0	3.0	4.5	6.1	7.6
60°	3.0	4.5	4.5	4.5	7.6	7.6
62.5°	3.0	4.5	6.1	6.1	7.6	9.1
65°	3.0	6.1	6.1	6.1	7.6	9.1
67.5°	4.5	6.1	6.1	6.1	7.6	9.1
70°	4.5	6.1	6.1	6.1	7.6	7.6
72.5°	4.5	6.1	4.5	6.1	6.1	7.6
75°	4.5	6.1	4.5	4.5	6.1	6.1
77.5°	3.0	4.5	4.5	3.0	4.5	4.5
80°	3.0	4.5	3.0	3.0	4.5	4.5



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	3.0	4.5	3.0	1.5	3.0	3.0
85°	3.0	4.5	3.0	1.5	1.5	1.5
87.5°	3.0	4.5	3.0	1.5	0.0	1.5
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)