

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: P1312705

Luminaire Tested: P3SQAS20R209727D010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1312705
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: P3SQAS20R209727D010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R20 optic, 2700K CCT AND, 97CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

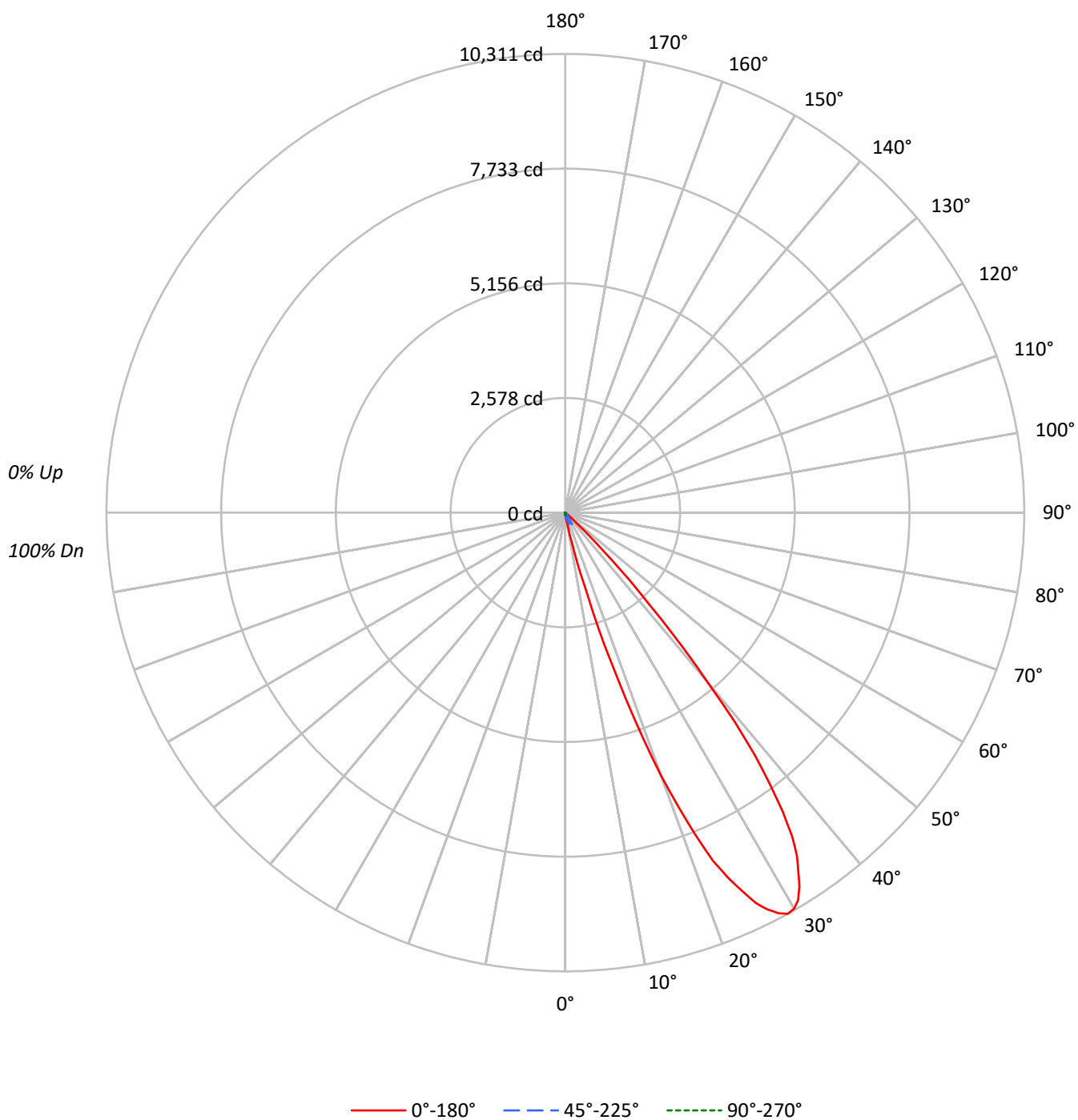
Lumens per Lamp: N/A
Luminaire Lumens: 1423.0 lumens
Efficiency: N/A
Efficacy: 49.4 lumens/watt
Spacing Criteria (0/90/45): 2.28 / 0.42 / 1.12
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P1312705

CATALOG NUMBER: P3SQAS20R209727D010 E3SQCA301MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1312705

CATALOG NUMBER: P3SQAS20R209727D010 E3SQCA301MMS

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°	8766	8766	8766	8766	8766
5°	19086	13450	8074	3665	2697
10°	47515	23766	5701	734	0
15°	334344	32557	3281	0	0
20°	1155515	54726	1301	0	0
25°	1781120	69930	532	0	0
30°	2044378	54032	0	0	0
35°	1867081	20541	0	0	0
40°	1119337	9555	0	0	0
45°	275052	4481	0	0	0
50°	30330	1125	0	0	0
55°	4264	0	420	0	0
60°	0	0	964	0	0
65°	0	0	1141	0	0
70°	0	705	2115	0	0
75°	0	932	2795	0	0
80°	0	1389	4166	0	0
85°	0	2766	8299	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 1°

Vertical Angle: 45°

Luminance: 293343 cd/sqm

TEST NUMBER: P1312705

CATALOG NUMBER: P3SQAS20R209727D010 E3SQCA301MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.8	0.4
10°-20°	111.1	7.8
20°-30°	562.1	39.5
30°-40°	608.2	42.7
40°-50°	128.5	9.0
50°-60°	3.9	0.3
60°-70°	0.9	0.1
70°-80°	1.3	0.1
80°-90°	1.2	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°	679.1	47.7
0°-40°	1287.3	90.5
0°-60°	1419.6	99.8
0°-90°	1423.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1423.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	51	51	51	51	51	
5°	110	78	47	21	16	16
15°	1875	183	18	0	0	782
25°	9373	368	3	0	0	4237
35°	8880	98	0	0	0	5237
45°	1129	18	0	0	0	1242
55°	14	0	1	0	0	25
65°	0	0	3	0	0	0
75°	0	1	4	0	0	0
85°	0	1	4	0	0	0
90°	0	0	0	0	0	

TEST NUMBER: P1312705

CATALOG NUMBER: P3SQAS20R209727D010 E3SQCA301MMS

CANDELA DISTRIBUTION (FULL):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9
2.5°	69.3	67.9	69.3	67.9	69.3	69.3	69.3	67.9	67.9	67.9	67.9
5°	110.4	110.4	109.0	110.4	110.4	110.4	110.4	109.0	109.0	107.6	107.6
7.5°	174.1	174.1	172.7	172.7	174.1	175.5	169.8	172.7	172.7	172.7	171.2
10°	271.7	277.4	271.7	278.8	273.1	268.9	276.0	268.9	268.9	267.5	263.2
12.5°	685.0	669.4	659.5	635.4	659.5	641.1	645.3	641.1	626.9	608.5	597.2
15°	1875.2	1875.2	1820.0	1893.6	1839.8	1859.6	1757.7	1759.1	1706.8	1650.2	1619.0
17.5°	3920.2	3955.5	3918.8	3896.1	3848.0	3778.6	3750.3	3678.2	3583.3	3473.0	3460.2
20°	6304.8	6156.2	6225.6	6161.9	6122.3	6037.3	5942.5	5883.1	5799.6	5659.5	5452.9
21°	7054.9	7049.2	7047.8	7046.4	6988.4	6849.7	6763.4	6644.5	6527.0	6382.7	6210.0
22°	7810.6	7837.5	7848.8	7766.7	7647.9	7585.6	7526.2	7363.4	7178.0	7103.0	6897.8
23°	8504.1	8478.6	8405.0	8366.8	8274.8	8256.4	8079.5	7976.2	7795.1	7713.0	7469.5
24°	8976.8	8964.0	8930.1	8873.5	8799.9	8686.6	8580.5	8417.7	8269.2	8134.7	7908.3
25°	9373.0	9384.3	9322.1	9283.9	9204.6	9077.2	8947.0	8768.7	8630.0	8472.9	8211.1
26°	9765.0	9685.8	9636.3	9579.6	9493.3	9347.6	9221.6	9061.7	8893.3	8717.8	8461.6
27°	10007.0	9936.3	9861.3	9806.1	9707.0	9568.3	9433.9	9257.0	9068.8	8891.8	8628.6
28°	10198.1	10120.3	10046.7	9980.2	9866.9	9718.3	9557.0	9377.3	9182.0	8999.4	8730.5
29°	10311.3	10219.3	10140.1	10065.1	9961.8	9800.4	9637.7	9445.2	9257.0	9065.9	8791.4
30°	10280.2	10200.9	10124.5	10048.1	9943.4	9791.9	9630.6	9446.6	9257.0	9068.8	8790.0
31°	10158.5	10060.8	10005.6	9929.2	9838.6	9684.4	9545.7	9344.7	9173.5	8969.7	8690.9
32°	9925.0	9862.7	9789.1	9729.7	9641.9	9477.8	9341.9	9177.7	8975.3	8808.4	8515.4
33°	9608.0	9549.9	9513.1	9443.8	9358.9	9245.7	9082.9	8932.9	8705.0	8533.8	8240.8
34°	9305.1	9231.5	9139.5	9119.7	9046.1	8900.3	8753.2	8600.3	8396.5	8178.6	7882.8
35°	8880.5	8804.1	8719.2	8726.3	8638.5	8468.7	8318.7	8147.4	7953.6	7697.4	7417.2
36°	8313.0	8262.1	8249.3	8215.4	8114.9	7912.5	7769.6	7554.5	7391.7	7078.9	6838.4
37°	7621.0	7639.4	7547.4	7503.5	7386.1	7244.5	7163.9	6887.9	6698.3	6463.3	6137.8
38°	6921.9	6895.0	6786.0	6812.9	6651.6	6504.4	6276.5	6112.4	5900.1	5682.1	5421.7
39°	6048.7	5982.1	5851.9	5857.6	5735.9	5570.3	5349.5	5155.7	5028.3	4818.8	4569.8
40°	4978.8	4950.5	4905.2	4830.2	4670.2	4598.1	4401.3	4191.9	4084.3	3794.2	3672.5
42.5°	2762.5	2724.3	2647.9	2621.0	2536.1	2451.2	2336.5	2196.4	2128.5	2042.2	1849.7
45°	1129.3	1204.4	1186.0	1164.7	1099.6	1103.9	1021.8	1031.7	956.7	905.7	870.4
47.5°	249.1	270.3	271.7	261.8	271.7	263.2	259.0	251.9	253.3	257.6	247.7
50°	113.2	111.8	114.6	113.2	111.8	110.4	109.0	104.7	107.6	104.7	101.9
52.5°	43.9	45.3	45.3	42.5	43.9	43.9	43.9	42.5	42.5	42.5	42.5
55°	14.2	14.2	14.2	12.7	12.7	14.2	14.2	14.2	14.2	14.2	12.7
57.5°	1.4	2.8	1.4	2.8	1.4	1.4	1.4	1.4	1.4	2.8	2.8
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



TEST NUMBER: P1312705

CATALOG NUMBER: P3SQAS20R209727D010 E3SQCA301MMS

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

TEST NUMBER: P1312705

CATALOG NUMBER: P3SQAS20R209727D010 E3SQCA301MMS

CANDELA DISTRIBUTION (continued):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9
2.5°	65.1	59.4	55.2	50.9	42.5	35.4	32.6	32.6
5°	100.5	77.8	58.0	46.7	32.6	21.2	17.0	15.6
7.5°	151.4	104.7	60.9	39.6	21.2	11.3	7.1	5.7
10°	219.4	135.9	63.7	32.6	12.7	4.2	0.0	0.0
12.5°	383.5	162.8	63.7	25.5	5.7	0.0	0.0	0.0
15°	878.9	182.6	60.9	18.4	1.4	0.0	0.0	0.0
17.5°	1825.6	229.3	53.8	12.7	0.0	0.0	0.0	0.0
20°	2915.4	298.6	42.5	7.1	0.0	0.0	0.0	0.0
21°	3364.0	322.7	38.2	5.7	0.0	0.0	0.0	0.0
22°	3686.7	345.3	34.0	4.2	0.0	0.0	0.0	0.0
23°	4041.9	359.5	29.7	2.8	0.0	0.0	0.0	0.0
24°	4303.7	368.0	25.5	2.8	0.0	0.0	0.0	0.0
25°	4466.4	368.0	22.6	2.8	0.0	0.0	0.0	0.0
26°	4562.7	359.5	19.8	1.4	0.0	0.0	0.0	0.0
27°	4585.3	345.3	17.0	1.4	0.0	0.0	0.0	0.0
28°	4557.0	326.9	14.2	0.0	0.0	0.0	0.0	0.0
29°	4467.9	300.0	12.7	0.0	0.0	0.0	0.0	0.0
30°	4371.6	271.7	9.9	0.0	0.0	0.0	0.0	0.0
31°	4207.5	233.5	8.5	0.0	0.0	0.0	0.0	0.0
32°	4017.8	193.9	7.1	0.0	0.0	0.0	0.0	0.0
33°	3764.5	152.8	5.7	0.0	0.0	0.0	0.0	0.0
34°	3390.9	120.3	5.7	0.0	0.0	0.0	0.0	0.0
35°	3055.5	97.7	4.2	0.0	0.0	0.0	0.0	0.0
36°	2616.7	77.8	4.2	0.0	0.0	0.0	0.0	0.0
37°	2241.7	65.1	4.2	0.0	0.0	0.0	0.0	0.0
38°	1876.6	55.2	2.8	0.0	0.0	0.0	0.0	0.0
39°	1522.8	48.1	2.8	0.0	0.0	0.0	0.0	0.0
40°	1214.3	42.5	2.8	0.0	0.0	0.0	0.0	0.0
42.5°	655.2	28.3	0.0	0.0	0.0	0.0	0.0	0.0
45°	362.3	18.4	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	159.9	9.9	0.0	0.0	0.0	0.0	0.0	0.0
50°	53.8	4.2	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	26.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	12.7	0.0	0.0	1.4	0.0	0.0	0.0	0.0
57.5°	2.8	0.0	0.0	1.4	0.0	0.0	0.0	0.0
60°	0.0	0.0	1.4	2.8	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	1.4	2.8	1.4	0.0	0.0	0.0
65°	0.0	0.0	2.8	2.8	1.4	0.0	0.0	0.0
67.5°	0.0	1.4	2.8	4.2	1.4	0.0	0.0	0.0
70°	0.0	1.4	2.8	4.2	1.4	0.0	0.0	0.0
72.5°	0.0	1.4	2.8	4.2	1.4	0.0	0.0	0.0
75°	0.0	1.4	2.8	4.2	1.4	0.0	0.0	0.0
77.5°	0.0	1.4	2.8	4.2	1.4	0.0	0.0	0.0
80°	0.0	1.4	2.8	4.2	1.4	0.0	0.0	0.0



TEST NUMBER: P1312705

CATALOG NUMBER: P3SQAS20R209727D010 E3SQCA301MMS

CANDELA DISTRIBUTION (continued):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.0	1.4	2.8	4.2	1.4	0.0	0.0	0.0
85°	0.0	1.4	2.8	4.2	1.4	0.0	0.0	0.0
87.5°	0.0	1.4	2.8	4.2	1.4	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)