

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: P1312689

Luminaire Tested: P3SQAS20R159727D010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1312689
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: P3SQAS20R159727D010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R15 optic, 2700K CCT AND, 97CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

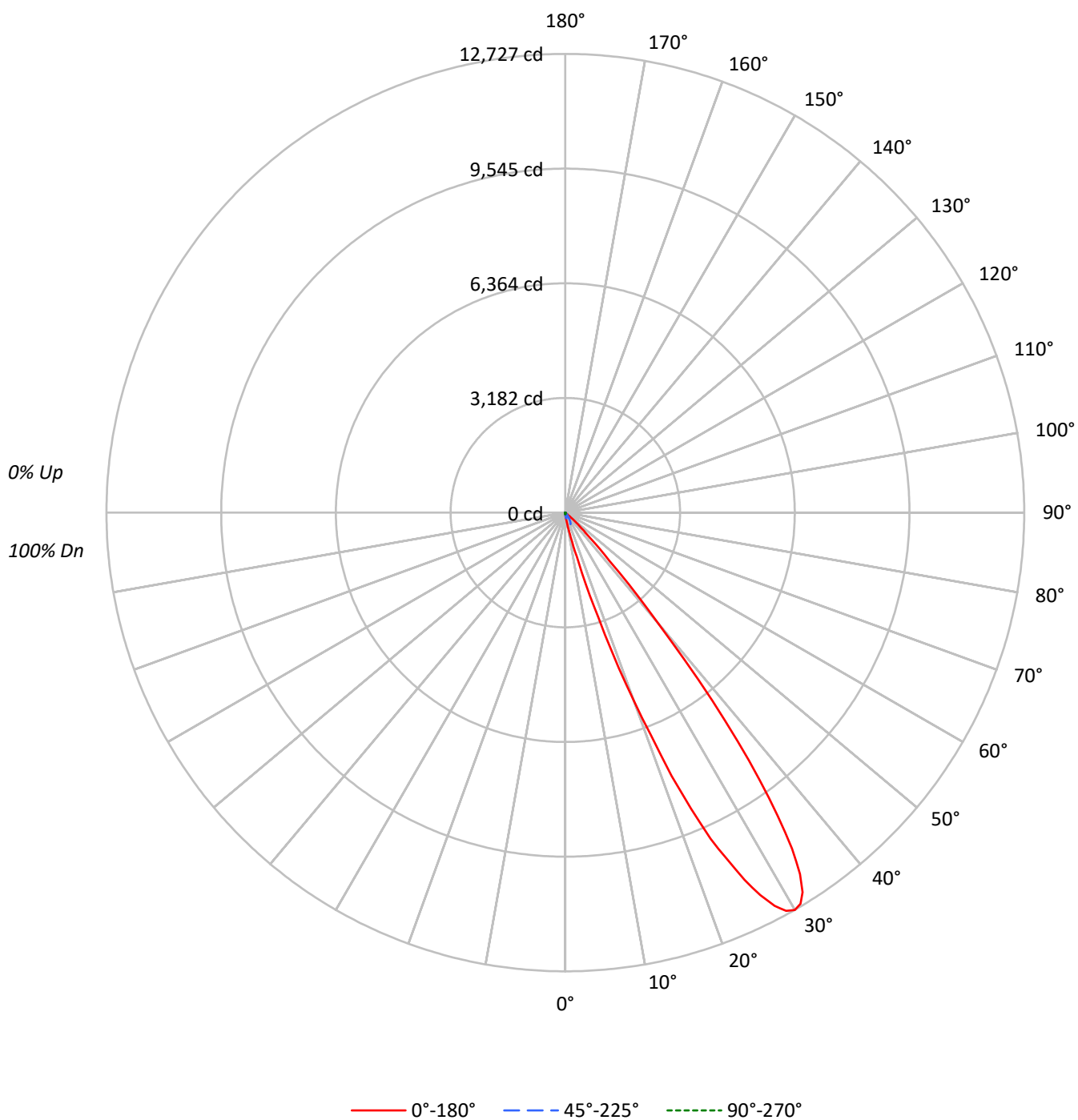
Lumens per Lamp: N/A
Luminaire Lumens: 1346.0 lumens
Efficiency: N/A
Efficacy: 46.7 lumens/watt
Spacing Criteria (0/90/45): 2.33 / 0.38 / 1.17
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P1312689

CATALOG NUMBER: P3SQAS20R159727D010 E3SQCA301MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1312689

CATALOG NUMBER: P3SQAS20R159727D010 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	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	57	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°	8284	8284	8284	8284	8284
5°	23979	18101	7088	2939	1954
10°	62380	26984	4704	0	0
15°	249332	44164	2532	0	0
20°	1018682	65118	770	0	0
25°	2013713	64552	0	0	0
30°	2531002	50949	0	0	0
35°	2159532	31242	0	0	0
40°	889076	9870	0	0	0
45°	192363	4141	0	0	0
50°	24650	0	0	0	0
55°	2132	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: 2°

Vertical Angle: 45°

Luminance: 201326 cd/sqm

TEST NUMBER: P1312689

CATALOG NUMBER: P3SQAS20R159727D010 E3SQCA301MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.5	0.5
10°-20°	94.3	7.0
20°-30°	549.8	40.8
30°-40°	589.5	43.8
40°-50°	99.5	7.4
50°-60°	3.0	0.2
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°	650.6	48.3
0°-40°	1240.1	92.1
0°-60°	1342.6	99.8
0°-90°	1346.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1346.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	48	48	48	48	48	
5°	139	105	41	17	11	19
15°	1398	248	14	0	0	647
25°	10597	340	0	0	0	4795
35°	10272	149	0	0	0	5903
45°	790	17	0	0	0	933
55°	7	0	1	0	0	18
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: P1312689

CATALOG NUMBER: P3SQAS20R159727D010 E3SQCA301MMS

CANDELA DISTRIBUTION (FULL):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1
2.5°	87.8	89.2	90.6	90.6	90.6	90.6	89.2	89.2	89.2	89.2	87.8
5°	138.7	138.7	138.7	138.7	138.7	138.7	137.3	137.3	137.3	137.3	137.3
7.5°	198.2	195.3	196.7	192.5	195.3	193.9	192.5	195.3	195.3	188.2	188.2
10°	356.7	355.3	341.1	343.9	346.8	345.4	345.4	336.9	335.4	329.8	324.1
12.5°	687.9	703.4	714.8	714.8	687.9	697.8	679.4	683.6	686.5	678.0	648.2
15°	1398.4	1423.9	1397.0	1422.5	1412.6	1375.8	1334.7	1279.5	1300.7	1262.5	1249.8
17.5°	3062.9	3120.9	3096.9	2979.4	3017.6	2927.0	2870.4	2849.2	2789.7	2612.8	2539.2
20°	5558.2	5629.0	5562.5	5425.2	5469.1	5297.8	5253.9	5212.9	4949.6	4853.4	4544.8
21°	6608.5	6666.5	6692.0	6549.0	6461.3	6325.4	6212.2	6175.4	6015.4	5830.0	5513.0
22°	7876.7	7808.7	7655.9	7675.7	7545.5	7433.6	7276.5	7127.9	6949.6	6690.6	6428.7
23°	8926.9	8847.6	8775.4	8687.7	8547.6	8468.3	8243.2	8080.5	7848.3	7570.9	7319.0
24°	9904.9	9783.2	9737.9	9582.2	9542.6	9364.2	9181.6	8969.3	8689.1	8393.3	8114.4
25°	10597.0	10615.4	10575.8	10557.4	10355.0	10172.4	9991.3	9664.3	9425.1	9163.2	8734.4
26°	11338.7	11347.2	11327.4	11191.5	11008.9	10830.6	10597.0	10312.5	9965.8	9675.6	9287.8
27°	11906.3	11872.3	11844.0	11682.6	11532.6	11307.6	11095.3	10758.4	10420.1	10074.8	9624.7
28°	12359.2	12295.5	12260.1	12121.4	11945.9	11669.9	11409.5	11095.3	10757.0	10386.1	9899.3
29°	12632.4	12564.4	12524.8	12371.9	12169.5	11927.5	11664.2	11318.9	10955.1	10541.8	10052.1
30°	12727.2	12687.6	12625.3	12466.8	12257.3	12005.4	11735.0	11359.9	10979.2	10556.0	10038.0
31°	12664.9	12614.0	12554.5	12383.3	12156.8	11916.2	11602.0	11208.5	10807.9	10404.5	9855.4
32°	12417.2	12386.1	12313.9	12084.6	11900.6	11589.2	11279.3	10911.3	10473.9	10040.8	9544.0
33°	11953.0	11902.0	11839.8	11630.3	11395.3	11096.7	10788.1	10411.6	9977.1	9519.9	8973.6
34°	11245.3	11180.2	11102.3	10962.2	10662.1	10403.1	10046.5	9606.3	9246.8	8808.0	8314.0
35°	10271.5	10176.7	10083.3	9977.1	9640.2	9401.0	9160.4	8776.8	8430.1	8016.8	7457.7
36°	9178.8	9142.0	9065.6	8785.3	8676.4	8350.8	8156.9	7716.7	7436.5	7031.7	6570.2
37°	7943.2	7726.6	7837.0	7679.9	7351.5	7249.6	7018.9	6641.0	6338.1	5910.7	5576.6
38°	6618.4	6476.8	6554.7	6396.2	6224.9	5989.9	5814.4	5538.4	5198.7	4863.3	4546.2
39°	5245.4	5130.8	5215.7	5108.1	4847.7	4750.1	4594.4	4383.5	4110.3	3848.5	3548.4
40°	3954.6	3807.4	3920.6	3767.8	3648.9	3488.9	3409.7	3215.8	3045.9	2888.8	2697.7
42.5°	1806.0	1790.5	1765.0	1709.8	1697.1	1698.5	1600.8	1537.1	1450.8	1350.3	1289.4
45°	789.8	809.6	826.6	795.5	794.0	777.1	771.4	728.9	711.9	679.4	639.8
47.5°	389.2	396.3	392.1	400.6	393.5	382.2	379.3	373.7	356.7	355.3	336.9
50°	92.0	90.6	90.6	92.0	90.6	90.6	89.2	86.3	84.9	86.3	82.1
52.5°	29.7	31.1	29.7	28.3	29.7	31.1	29.7	29.7	29.7	29.7	29.7
55°	7.1	7.1	7.1	7.1	7.1	7.1	5.7	5.7	7.1	7.1	7.1
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



TEST NUMBER: P1312689

CATALOG NUMBER: P3SQAS20R159727D010 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: P1312689

CATALOG NUMBER: P3SQAS20R159727D010 E3SQCA301MMS

CANDELA DISTRIBUTION (continued):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1
2.5°	86.3	73.6	60.9	48.1	35.4	28.3	26.9	25.5
5°	130.2	104.7	69.4	41.0	24.1	17.0	12.7	11.3
7.5°	175.5	130.2	76.4	34.0	17.0	7.1	2.8	1.4
10°	251.9	154.3	79.3	26.9	8.5	0.0	0.0	0.0
12.5°	494.0	176.9	77.8	21.2	1.4	0.0	0.0	0.0
15°	820.9	247.7	72.2	14.2	0.0	0.0	0.0	0.0
17.5°	1344.6	319.9	62.3	9.9	0.0	0.0	0.0	0.0
20°	2084.9	355.3	48.1	4.2	0.0	0.0	0.0	0.0
21°	2444.4	358.1	42.5	2.8	0.0	0.0	0.0	0.0
22°	2755.8	358.1	36.8	1.4	0.0	0.0	0.0	0.0
23°	3044.5	353.8	32.6	0.0	0.0	0.0	0.0	0.0
24°	3282.3	348.2	29.7	0.0	0.0	0.0	0.0	0.0
25°	3460.6	339.7	26.9	0.0	0.0	0.0	0.0	0.0
26°	3542.7	328.4	22.6	0.0	0.0	0.0	0.0	0.0
27°	3583.8	312.8	19.8	0.0	0.0	0.0	0.0	0.0
28°	3555.5	295.8	17.0	0.0	0.0	0.0	0.0	0.0
29°	3484.7	277.4	12.7	0.0	0.0	0.0	0.0	0.0
30°	3392.7	256.2	9.9	0.0	0.0	0.0	0.0	0.0
31°	3258.2	235.0	7.1	0.0	0.0	0.0	0.0	0.0
32°	3074.2	213.7	5.7	0.0	0.0	0.0	0.0	0.0
33°	2828.0	191.1	2.8	0.0	0.0	0.0	0.0	0.0
34°	2523.6	168.4	1.4	0.0	0.0	0.0	0.0	0.0
35°	2182.5	148.6	0.0	0.0	0.0	0.0	0.0	0.0
36°	1889.5	127.4	0.0	0.0	0.0	0.0	0.0	0.0
37°	1595.1	101.9	0.0	0.0	0.0	0.0	0.0	0.0
38°	1336.1	80.7	0.0	0.0	0.0	0.0	0.0	0.0
39°	1105.4	65.1	0.0	0.0	0.0	0.0	0.0	0.0
40°	915.8	43.9	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	506.7	29.7	0.0	0.0	0.0	0.0	0.0	0.0
45°	307.1	17.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	178.3	5.7	0.0	0.0	0.0	0.0	0.0	0.0
50°	67.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	22.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	5.7	0.0	0.0	1.4	0.0	0.0	0.0	0.0
57.5°	0.0	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	0.0	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



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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)