

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: P1313691

Luminaire Tested: P3SQAS20R259730D010 E3SQCA301MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1313691
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-49)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS20R259730D010 E3SQCA301MB
Description: 3in Adjustable LED luminaire with, R25 optic, 3000K CCT AND, 97CRI , E3SQCA301MB TRIM
Light Source: -
Ballast/Driver: -

Summary

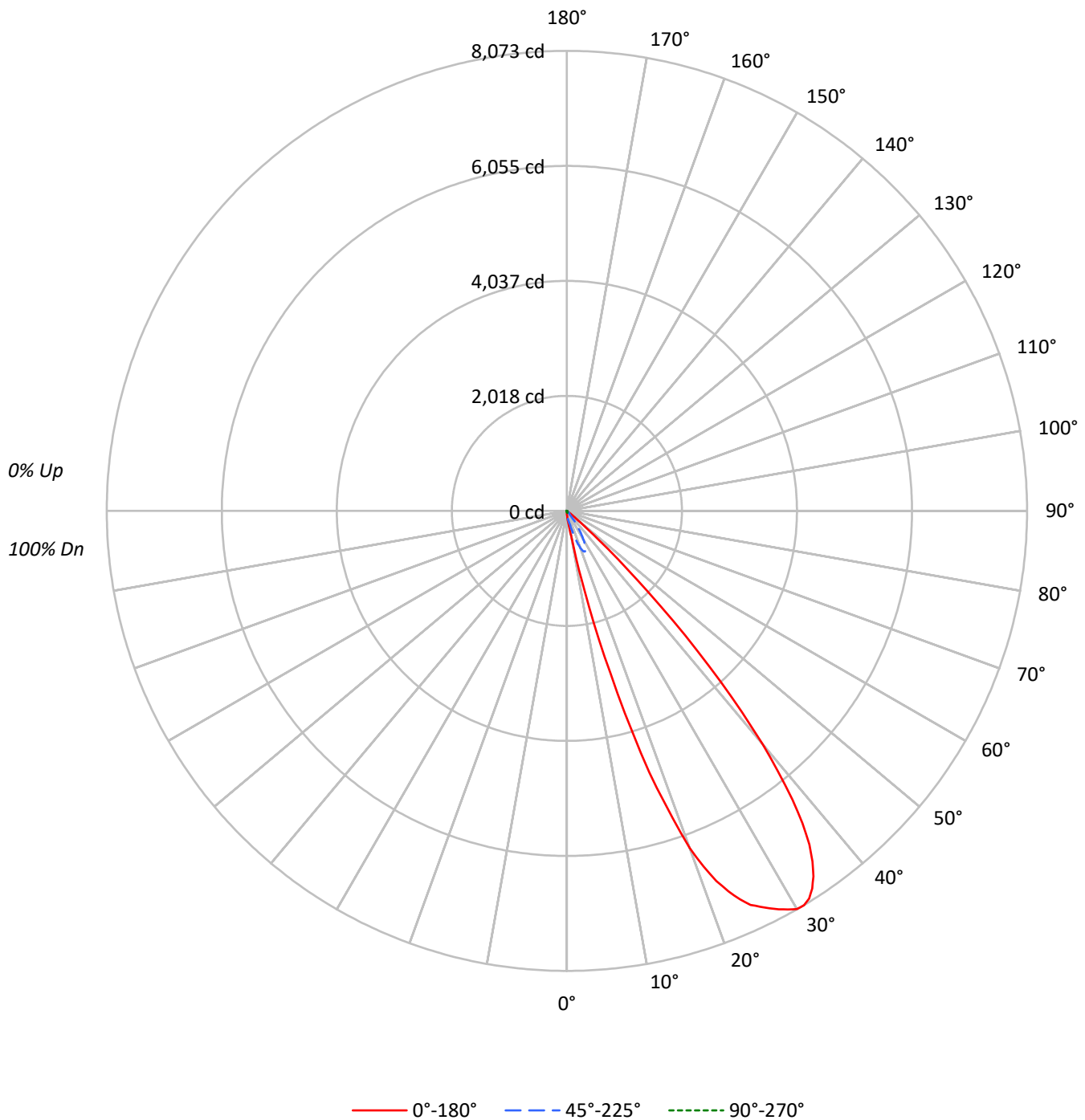
Lumens per Lamp: N/A
Luminaire Lumens: 1582.0 lumens
Efficiency: N/A
Efficacy: 54.9 lumens/watt
Spacing Criteria (0/90/45): 2.4 / 0.45 / 1.25
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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: P1313691

CATALOG NUMBER: P3SQAS20R259730D010 E3SQCA301MB

Luminous Intensity Polar Plot



TEST NUMBER: P1313691

CATALOG NUMBER: P3SQAS20R259730D010 E3SQCA301MB

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	95	92	103	98	94	90	95	92	88	92	89	87	89	87	85	83		
3	99	92	86	81	97	90	85	80	87	83	79	85	81	78	83	79	77	75		
4	93	84	77	72	91	83	76	72	80	75	71	78	74	70	76	72	69	67		
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	62	61		
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	56	55		
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49		
8	70	59	52	47	69	58	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°	8611	8611	8611	8611	8611
5°	26987	18861	7866	4184	3146
10°	85061	34189	5823	525	0
15°	526015	65114	3512	0	0
20°	1153316	126918	1118	0	0
25°	1449751	145978	0	0	0
30°	1604885	112995	0	0	0
35°	1579802	64041	0	0	0
40°	1200812	16682	0	0	0
45°	486413	7380	0	0	0
50°	53988	804	0	0	0
55°	4084	0	450	0	0
60°	0	0	517	0	0
65°	0	0	1223	0	0
70°	0	755	1511	0	0
75°	0	998	2994	0	0
80°	0	1488	4463	0	0
85°	0	2964	8892	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 486413 cd/sqm

TEST NUMBER: P1313691

CATALOG NUMBER: P3SQAS20R259730D010 E3SQCA301MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.8	0.5
10°-20°	163.4	10.3
20°-30°	571.2	36.1
30°-40°	637.2	40.3
40°-50°	192.4	12.2
50°-60°	6.4	0.4
60°-70°	0.8	0.1
70°-80°	1.4	0.1
80°-90°	1.3	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°	742.4	46.9
0°-40°	1379.6	87.2
0°-60°	1578.5	99.8
0°-90°	1582.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1582.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	50	50	50	50	50	
5°	156	109	46	24	18	24
15°	2950	365	20	0	0	981
25°	7629	768	0	0	0	3480
35°	7514	305	0	0	0	4511
45°	1997	30	0	0	0	1725
55°	14	0	2	0	0	42
65°	0	0	3	0	0	0
75°	0	2	4	0	0	0
85°	0	2	4	0	0	0
90°	0	0	0	0	0	

TEST NUMBER: P1313691

CATALOG NUMBER: P3SQAS20R259730D010 E3SQCA301MB

CANDELA DISTRIBUTION (FULL):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
2.5°	86.4	89.4	87.9	89.4	87.9	87.9	87.9	89.4	87.9	87.9	87.9
5°	156.1	157.6	157.6	156.1	156.1	159.1	156.1	157.6	153.0	156.1	154.6
7.5°	256.1	253.0	253.0	254.6	254.6	251.5	250.0	247.0	250.0	250.0	245.5
10°	486.4	483.4	475.8	472.8	475.8	475.8	460.6	463.7	465.2	451.5	447.0
12.5°	1428.9	1418.3	1439.5	1406.1	1386.4	1354.6	1372.8	1310.7	1297.0	1288.0	1266.7
15°	2950.2	3030.5	2995.6	2998.7	3004.7	2929.0	2954.7	2860.8	2782.0	2757.7	2741.1
17.5°	4810.9	4835.1	4803.3	4788.2	4782.1	4745.7	4701.8	4654.8	4594.2	4541.2	4497.2
20°	6292.8	6274.6	6220.1	6226.1	6161.0	6127.6	6089.8	6042.8	5995.8	5918.5	5844.3
21°	6683.7	6630.7	6632.2	6595.8	6594.3	6551.9	6485.2	6436.7	6394.3	6306.4	6259.5
22°	7005.0	6992.8	6965.6	6938.3	6909.5	6888.3	6814.0	6789.8	6703.4	6630.7	6564.0
23°	7255.0	7259.5	7235.3	7217.1	7177.7	7168.6	7073.2	7039.8	6980.7	6870.1	6801.9
24°	7462.6	7455.0	7427.7	7395.9	7373.2	7352.0	7279.2	7224.7	7159.5	7068.6	7001.9
25°	7629.2	7611.1	7592.9	7568.6	7532.3	7508.0	7433.8	7373.2	7317.1	7215.6	7124.7
26°	7727.7	7732.3	7703.5	7685.3	7653.5	7629.2	7552.0	7480.8	7411.1	7302.0	7220.1
27°	7827.7	7823.2	7797.4	7770.2	7736.8	7727.7	7638.3	7564.1	7492.9	7377.7	7280.7
28°	7920.2	7908.0	7886.8	7855.0	7818.7	7791.4	7705.0	7627.7	7550.5	7427.7	7321.7
29°	7997.4	7985.3	7971.7	7930.8	7883.8	7865.6	7773.2	7679.2	7602.0	7476.2	7364.1
30°	8070.2	8047.5	8015.6	7980.8	7935.3	7900.5	7803.5	7721.7	7630.8	7491.4	7383.8
31°	8073.2	8042.9	8020.2	7983.8	7932.3	7889.9	7788.3	7705.0	7598.9	7468.6	7352.0
32°	8020.2	8005.0	7968.7	7929.3	7879.3	7836.8	7724.7	7636.8	7536.8	7397.4	7280.7
33°	7900.5	7885.3	7864.1	7823.2	7758.0	7718.6	7618.6	7521.7	7423.2	7297.4	7164.1
34°	7735.3	7717.1	7689.9	7648.9	7582.3	7541.4	7461.1	7361.0	7256.5	7126.2	7001.9
35°	7514.1	7479.2	7471.7	7411.1	7348.9	7338.3	7242.9	7138.3	7032.2	6888.3	6780.7
36°	7239.8	7198.9	7171.6	7150.4	7109.5	7059.5	6965.6	6882.2	6745.9	6653.4	6501.9
37°	6865.6	6815.6	6841.3	6783.7	6720.1	6698.9	6579.2	6503.4	6388.3	6262.5	6133.7
38°	6429.2	6424.6	6418.6	6392.8	6283.7	6227.6	6177.6	6097.3	5997.3	5845.8	5671.6
39°	5877.6	5886.7	5854.9	5857.9	5803.4	5747.3	5677.6	5586.7	5465.5	5327.6	5186.7
40°	5341.2	5212.4	5235.2	5157.9	5162.4	5079.1	4988.2	4907.9	4830.6	4709.4	4516.9
42.5°	3695.7	3676.0	3607.8	3559.3	3580.5	3472.9	3353.2	3241.1	3133.5	2997.1	2829.0
45°	1997.1	1951.6	1965.3	1886.5	1886.5	1838.0	1804.7	1710.7	1610.7	1548.6	1451.6
47.5°	742.5	751.6	768.2	736.4	700.0	721.3	689.4	689.4	672.8	653.1	625.8
50°	201.5	204.6	201.5	201.5	197.0	194.0	187.9	186.4	184.9	180.3	172.7
52.5°	81.8	77.3	77.3	78.8	78.8	75.8	77.3	77.3	75.8	74.2	74.2
55°	13.6	15.2	15.2	15.2	15.2	13.6	13.6	15.2	16.7	15.2	15.2
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: P1313691

CATALOG NUMBER: P3SQAS20R259730D010 E3SQCA301MB

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: P1313691

CATALOG NUMBER: P3SQAS20R259730D010 E3SQCA301MB

CANDELA DISTRIBUTION (continued):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
2.5°	84.9	74.2	62.1	51.5	40.9	34.9	31.8	33.3
5°	143.9	109.1	71.2	45.5	31.8	24.2	19.7	18.2
7.5°	221.2	150.0	80.3	39.4	24.2	12.1	7.6	6.1
10°	339.4	195.5	86.4	33.3	15.2	3.0	0.0	0.0
12.5°	871.3	239.4	87.9	27.3	6.1	0.0	0.0	0.0
15°	1791.0	365.2	84.9	19.7	1.5	0.0	0.0	0.0
17.5°	2977.5	559.1	74.2	13.6	0.0	0.0	0.0	0.0
20°	4130.6	692.5	59.1	6.1	0.0	0.0	0.0	0.0
21°	4477.5	731.9	53.0	4.5	0.0	0.0	0.0	0.0
22°	4760.9	760.7	47.0	3.0	0.0	0.0	0.0	0.0
23°	4997.3	775.8	40.9	1.5	0.0	0.0	0.0	0.0
24°	5162.4	778.8	37.9	1.5	0.0	0.0	0.0	0.0
25°	5241.2	768.2	33.3	0.0	0.0	0.0	0.0	0.0
26°	5271.5	747.0	30.3	0.0	0.0	0.0	0.0	0.0
27°	5248.8	719.7	27.3	0.0	0.0	0.0	0.0	0.0
28°	5207.9	678.8	22.7	0.0	0.0	0.0	0.0	0.0
29°	5127.6	624.3	19.7	0.0	0.0	0.0	0.0	0.0
30°	5050.3	568.2	16.7	0.0	0.0	0.0	0.0	0.0
31°	4962.4	518.2	13.6	0.0	0.0	0.0	0.0	0.0
32°	4854.8	460.6	10.6	0.0	0.0	0.0	0.0	0.0
33°	4676.0	407.6	7.6	0.0	0.0	0.0	0.0	0.0
34°	4426.0	357.6	6.1	0.0	0.0	0.0	0.0	0.0
35°	4091.2	304.6	4.5	0.0	0.0	0.0	0.0	0.0
36°	3724.5	248.5	3.0	0.0	0.0	0.0	0.0	0.0
37°	3276.0	180.3	3.0	0.0	0.0	0.0	0.0	0.0
38°	2807.7	113.6	1.5	0.0	0.0	0.0	0.0	0.0
39°	2328.9	86.4	1.5	0.0	0.0	0.0	0.0	0.0
40°	1891.0	74.2	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	1012.2	50.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	597.0	30.3	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	333.4	12.1	0.0	0.0	0.0	0.0	0.0	0.0
50°	119.7	3.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	47.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	16.7	0.0	0.0	1.5	0.0	0.0	0.0	0.0
57.5°	1.5	0.0	1.5	1.5	0.0	0.0	0.0	0.0
60°	0.0	0.0	1.5	1.5	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	1.5	3.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	3.0	3.0	1.5	0.0	0.0	0.0
67.5°	0.0	1.5	3.0	3.0	1.5	0.0	0.0	0.0
70°	0.0	1.5	3.0	3.0	1.5	0.0	0.0	0.0
72.5°	0.0	1.5	3.0	4.5	1.5	0.0	0.0	0.0
75°	0.0	1.5	3.0	4.5	1.5	0.0	0.0	0.0
77.5°	0.0	1.5	3.0	4.5	1.5	0.0	0.0	0.0
80°	0.0	1.5	3.0	4.5	1.5	0.0	0.0	0.0



TEST NUMBER: P1313691

CATALOG NUMBER: P3SQAS20R259730D010 E3SQCA301MB

CANDELA DISTRIBUTION (continued):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.0	1.5	3.0	4.5	1.5	0.0	0.0	0.0
85°	0.0	1.5	3.0	4.5	1.5	0.0	0.0	0.0
87.5°	0.0	1.5	3.0	4.5	1.5	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)