

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: P1308293

Luminaire Tested: P3SQAS20R259030D010 E3SQCA451MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1308293
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-75)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS20R259030D010 E3SQCA451MW
Description: 3in Adjustable LED luminaire with, R25 optic, 3000K CCT AND, 90CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

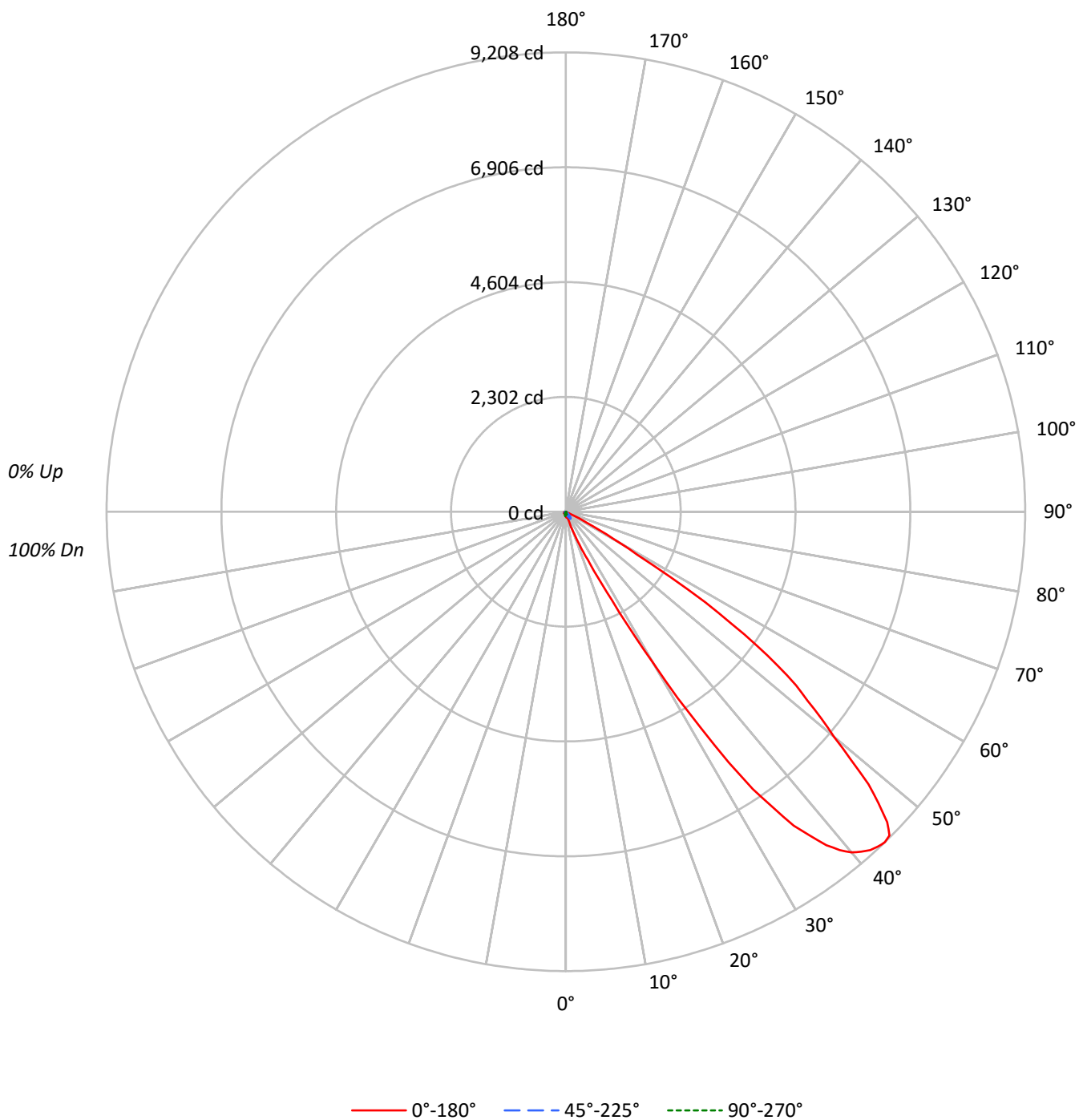
Lumens per Lamp: N/A
Luminaire Lumens: 1920.0 lumens
Efficiency: N/A
Efficacy: 66.7 lumens/watt
Spacing Criteria (0/90/45): 3.65 / 0.61 / 1.37
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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: P1308293

CATALOG NUMBER: P3SQAS20R259030D010 E3SQCA451MW

Luminous Intensity Polar Plot



TEST NUMBER: P1308293

CATALOG NUMBER: P3SQAS20R259030D010 E3SQCA451MW

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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	110	106	102	99	108	104	101	97	100	97	94	96	94	92	92	91	89	87		
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73		
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61		
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51		
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42		
6	68	55	45	39	66	54	45	39	52	44	38	50	43	38	48	42	37	35		
7	62	48	39	32	60	47	39	32	46	38	32	44	37	32	43	36	32	29		
8	57	43	34	27	55	42	33	27	40	33	27	39	32	27	38	32	27	25		
9	52	38	29	23	51	37	29	23	36	28	23	35	28	23	34	27	23	21		
10	48	34	25	20	47	33	25	20	32	25	20	31	24	19	30	24	19	17		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	16878	16878	16878	16878	16878
5°	19276	18394	16354	14608	14315
10°	19202	17435	13885	12119	12119
15°	21396	15066	10841	10234	10841
20°	75564	14864	8357	8669	9604
25°	217352	18946	6746	8019	9311
30°	693484	29233	5369	7736	9406
35°	1518915	34459	4625	7464	9587
40°	2003692	31138	3799	7599	10252
45°	2234489	21799	3702	8232	11106
50°	1880901	11307	3617	8601	12218
55°	1406242	4564	3543	9638	13692
60°	435310	1171	3479	10471	15121
65°	37165	0	4116	11003	16504
70°	2568	856	4230	12740	18732
75°	2262	1131	5590	13508	21360
80°	1686	1686	8331	15075	25092
85°	3359	3359	13437	16599	26676

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2234489 cd/sqm

TEST NUMBER: P1308293

CATALOG NUMBER: P3SQAS20R259030D010 E3SQCA451MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.8	0.5
10°-20°	22.6	1.2
20°-30°	106.2	5.5
30°-40°	511.4	26.6
40°-50°	801.6	41.8
50°-60°	411.0	21.4
60°-70°	38.8	2.0
70°-80°	13.0	0.7
80°-90°	6.5	0.3
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°	137.6	7.2
0°-40°	649.0	33.8
0°-60°	1861.6	97.0
0°-90°	1920.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1920.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	98	98	98	98	98	
5°	112	106	95	84	83	11
15°	120	84	61	57	61	51
25°	1144	100	36	42	49	709
35°	7224	164	22	36	46	4386
45°	9174	90	15	34	46	6713
55°	4683	15	12	32	46	3899
65°	91	0	10	27	40	286
75°	3	2	8	20	32	4
85°	2	2	7	8	14	1
90°	0	0	0	0	0	

TEST NUMBER: P1308293

CATALOG NUMBER: P3SQAS20R259030D010 E3SQCA451MW

CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
2.5°	106.4	106.4	106.4	106.4	106.4	106.4	104.8	104.8	106.4	104.8	104.8
5°	111.5	111.5	111.5	111.5	111.5	111.5	111.5	109.8	109.8	109.8	106.4
7.5°	113.2	111.5	111.5	111.5	111.5	111.5	111.5	111.5	109.8	109.8	104.8
10°	109.8	109.8	109.8	109.8	108.1	108.1	108.1	106.4	106.4	106.4	99.7
12.5°	109.8	109.8	109.8	109.8	108.1	108.1	106.4	106.4	104.8	103.1	91.2
15°	120.0	120.0	120.0	118.3	116.6	114.9	113.2	111.5	109.8	106.4	84.5
17.5°	175.7	170.6	169.0	162.2	153.7	145.3	138.5	131.8	125.0	120.0	81.1
20°	412.3	410.6	402.1	381.8	359.9	334.5	309.2	280.5	239.9	212.9	81.1
22.5°	714.7	704.5	689.3	674.1	635.3	589.7	542.3	488.3	435.9	380.1	86.2
25°	1143.8	1167.5	1116.8	1076.2	1008.7	925.9	836.3	762.0	667.4	579.5	99.7
27.5°	1988.6	2003.8	1904.1	1772.3	1615.2	1441.2	1272.2	1145.5	986.7	841.4	125.0
30°	3487.2	3502.4	3335.2	3054.7	2730.3	2444.8	2057.9	1718.3	1405.7	1164.1	147.0
31°	4352.3	4234.0	4039.7	3767.7	3357.1	2926.3	2461.7	2051.1	1655.8	1338.1	153.7
32°	5104.1	5094.0	4867.6	4455.4	4043.1	3510.9	2934.8	2399.2	1914.3	1513.8	158.8
33°	5991.2	5923.6	5604.3	5215.7	4669.9	4134.3	3390.9	2779.3	2179.5	1709.8	162.2
34°	6702.5	6520.0	6388.2	5943.9	5367.7	4685.1	3889.4	3181.4	2510.7	1899.1	163.9
35°	7224.5	7185.7	6928.9	6514.9	5928.6	5230.9	4426.6	3598.8	2787.8	2118.7	163.9
36°	7777.0	7657.1	7407.0	7031.9	6460.9	5739.4	4837.2	3960.3	3110.5	2316.4	162.2
37°	8123.4	8052.4	7804.1	7417.1	6857.9	6168.6	5296.8	4342.2	3367.3	2514.1	158.8
38°	8479.9	8336.3	8091.3	7721.3	7172.2	6525.1	5629.6	4636.1	3603.8	2688.1	153.7
39°	8726.6	8577.9	8327.8	7959.5	7422.2	6780.2	5893.2	4886.2	3809.9	2818.2	147.0
40°	8912.4	8768.8	8515.4	8136.9	7606.4	6981.2	6112.8	5107.5	3982.3	2931.4	138.5
41°	9027.3	8893.8	8642.1	8265.3	7733.1	7096.1	6256.4	5251.1	4098.9	3007.4	130.1
42°	9123.6	8986.7	8729.9	8344.7	7810.8	7194.1	6344.3	5342.4	4178.3	3046.3	123.3
43°	9177.7	9040.8	8790.8	8397.1	7858.1	7239.7	6391.6	5384.6	4205.3	3041.2	111.5
44°	9208.1	9066.2	8814.4	8420.7	7878.4	7251.6	6395.0	5376.2	4186.7	3000.6	101.4
45°	9174.3	9034.0	8790.8	8397.1	7842.9	7214.4	6361.2	5330.5	4115.8	2921.2	89.5
46°	8954.6	8846.5	8623.5	8261.9	7731.4	7119.8	6275.0	5242.7	4005.9	2823.2	76.0
47°	8567.7	8481.6	8265.3	7996.7	7516.8	6945.8	6116.2	5075.4	3852.2	2676.3	60.8
48°	8163.9	8037.2	7836.2	7560.8	7155.3	6633.2	5854.3	4830.4	3619.0	2483.6	54.1
49°	7567.5	7493.2	7315.8	7008.3	6672.1	6212.5	5484.3	4516.2	3333.5	2274.1	47.3
50°	7020.1	6969.4	6721.0	6494.6	6138.2	5709.0	4982.5	4102.2	2978.7	2013.9	42.2
51°	6592.6	6531.8	6352.7	6070.6	5690.4	5192.0	4507.7	3565.0	2571.5	1704.8	33.8
52°	6146.6	6112.8	5954.0	5663.4	5290.0	4793.3	4046.5	3108.8	2176.1	1441.2	27.0
53°	5781.7	5732.7	5538.4	5279.9	4876.1	4362.4	3546.4	2684.7	1843.3	1211.4	23.7
54°	5249.4	5229.2	5104.1	4833.8	4396.2	3837.0	3093.6	2260.6	1537.5	1027.2	20.3
55°	4683.4	4615.9	4489.1	4274.6	3872.5	3350.4	2569.8	1873.7	1243.5	865.1	15.2
56°	3994.1	3990.7	3764.3	3585.2	3228.7	2674.6	2052.8	1463.2	1010.4	721.4	13.5
57°	3335.2	3228.7	3010.8	2833.4	2449.9	2029.2	1524.0	1096.5	790.7	584.6	10.1
58°	2466.8	2411.0	2353.5	2093.4	1738.6	1437.8	1088.1	770.4	584.6	446.0	6.8
59°	1674.3	1672.7	1605.1	1407.4	1203.0	895.5	679.2	523.8	402.1	327.8	5.1
60°	1263.8	1233.4	1098.2	968.1	756.9	566.0	402.1	309.2	250.1	211.2	3.4
62.5°	442.7	459.6	403.8	334.5	255.1	209.5	160.5	130.1	106.4	86.2	0.0
65°	91.2	99.7	86.2	81.1	64.2	55.8	49.0	42.2	35.5	30.4	0.0



TEST NUMBER: P1308293

CATALOG NUMBER: P3SQAS20R259030D010 E3SQCA451MW

CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
67.5°	11.8	10.1	10.1	10.1	8.4	8.4	8.4	8.4	6.8	6.8	1.7
70°	5.1	5.1	5.1	5.1	5.1	5.1	3.4	3.4	3.4	3.4	1.7
72.5°	5.1	5.1	5.1	3.4	3.4	3.4	3.4	3.4	3.4	1.7	1.7
75°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	1.7	1.7	1.7	1.7
77.5°	3.4	3.4	3.4	3.4	3.4	3.4	1.7	1.7	1.7	1.7	1.7
80°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
82.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	3.4
85°	1.7	1.7	1.7	0.0	0.0	1.7	1.7	1.7	1.7	1.7	1.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7
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: P1308293

CATALOG NUMBER: P3SQAS20R259030D010 E3SQCA451MW

CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	98.0	98.0	98.0	98.0	98.0	98.0
2.5°	103.1	99.7	94.6	92.9	91.2	91.2
5°	101.4	94.6	89.5	84.5	82.8	82.8
7.5°	96.3	87.9	81.1	77.7	76.0	74.3
10°	91.2	79.4	72.7	69.3	69.3	69.3
12.5°	81.1	71.0	64.2	62.5	64.2	64.2
15°	72.7	60.8	57.4	57.4	59.1	60.8
17.5°	62.5	54.1	50.7	52.4	54.1	55.8
20°	55.8	45.6	45.6	47.3	52.4	52.4
22.5°	49.0	40.5	40.5	45.6	49.0	50.7
25°	43.9	35.5	37.2	42.2	47.3	49.0
27.5°	37.2	30.4	33.8	40.5	45.6	47.3
30°	32.1	27.0	32.1	38.9	43.9	47.3
31°	30.4	25.3	32.1	37.2	43.9	47.3
32°	27.0	25.3	30.4	37.2	43.9	45.6
33°	25.3	23.7	30.4	37.2	43.9	45.6
34°	23.7	22.0	28.7	37.2	43.9	45.6
35°	20.3	22.0	28.7	35.5	42.2	45.6
36°	18.6	20.3	28.7	35.5	42.2	45.6
37°	16.9	20.3	27.0	35.5	42.2	45.6
38°	15.2	18.6	27.0	35.5	42.2	45.6
39°	13.5	18.6	25.3	35.5	42.2	45.6
40°	11.8	16.9	25.3	33.8	42.2	45.6
41°	11.8	16.9	25.3	33.8	42.2	45.6
42°	10.1	16.9	25.3	33.8	42.2	45.6
43°	8.4	15.2	25.3	33.8	42.2	45.6
44°	6.8	15.2	23.7	33.8	42.2	45.6
45°	6.8	15.2	23.7	33.8	42.2	45.6
46°	5.1	13.5	23.7	33.8	42.2	45.6
47°	3.4	13.5	23.7	32.1	42.2	45.6
48°	3.4	13.5	23.7	32.1	42.2	45.6
49°	3.4	13.5	22.0	32.1	42.2	45.6
50°	3.4	13.5	22.0	32.1	42.2	45.6
51°	1.7	11.8	22.0	32.1	42.2	45.6
52°	1.7	11.8	22.0	32.1	42.2	47.3
53°	1.7	11.8	22.0	32.1	42.2	45.6
54°	1.7	11.8	20.3	32.1	42.2	45.6
55°	1.7	11.8	20.3	32.1	42.2	45.6
56°	1.7	10.1	20.3	30.4	42.2	45.6
57°	3.4	10.1	20.3	30.4	42.2	43.9
58°	3.4	10.1	20.3	30.4	40.5	43.9
59°	3.4	10.1	20.3	30.4	40.5	43.9
60°	3.4	10.1	18.6	30.4	40.5	43.9
62.5°	3.4	10.1	18.6	28.7	38.9	42.2
65°	3.4	10.1	16.9	27.0	38.9	40.5



TEST NUMBER: P1308293

CATALOG NUMBER: P3SQAS20R259030D010 E3SQCA451MW

CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	3.4	8.4	16.9	25.3	37.2	38.9
70°	5.1	8.4	15.2	25.3	35.5	37.2
72.5°	5.1	8.4	15.2	22.0	32.1	35.5
75°	5.1	8.4	13.5	20.3	30.4	32.1
77.5°	5.1	8.4	11.8	18.6	27.0	28.7
80°	6.8	8.4	10.1	15.2	23.7	25.3
82.5°	6.8	8.4	8.4	11.8	18.6	20.3
85°	5.1	6.8	6.8	8.4	11.8	13.5
87.5°	5.1	6.8	5.1	3.4	6.8	6.8
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)