

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: P1314527

Luminaire Tested: P3SQAS17R309735DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1314527
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-76)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS17R309735DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R30 optic, 3500K CCT AND, 97CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

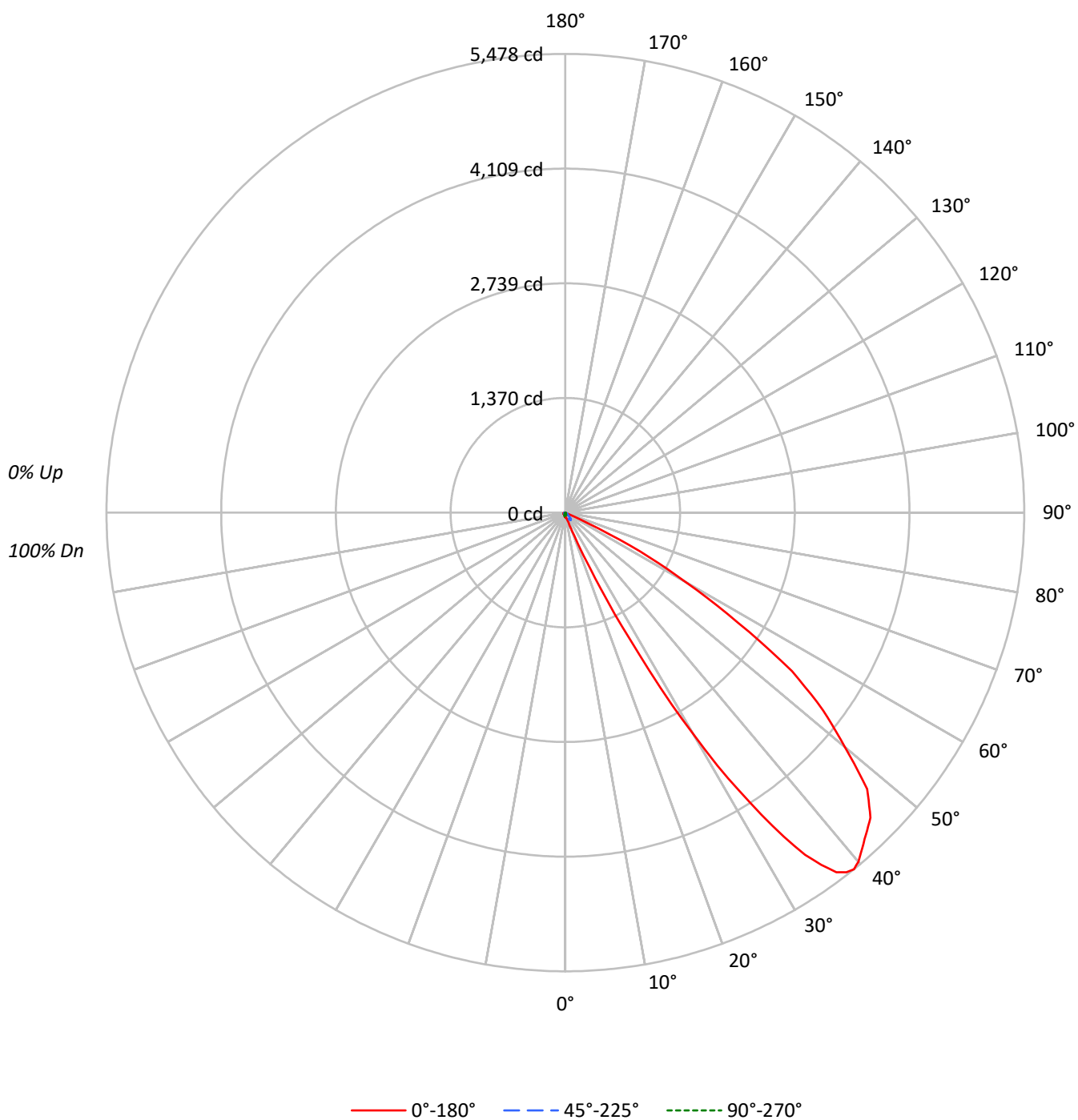
Lumens per Lamp: N/A
Luminaire Lumens: 1424.0 lumens
Efficiency: N/A
Efficacy: 67.2 lumens/watt
Spacing Criteria (0/90/45): 4.07 / 0.66 / 1.44
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 21.2
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: P1314527

CATALOG NUMBER: P3SQAS17R309735DE010 E3SQCA451MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1314527

CATALOG NUMBER: P3SQAS17R309735DE010 E3SQCA451MMS

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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	52
5	75	62	52	46	73	60	52	45	58	51	45	56	50	44	54	49	44
6	68	54	45	38	66	53	44	38	51	43	37	49	42	37	48	42	37
7	62	48	38	32	60	47	38	32	45	37	31	44	36	31	42	36	31
8	56	42	33	27	55	41	33	27	40	32	26	39	32	26	37	31	26
9	52	37	29	23	50	37	28	23	36	28	22	34	27	22	33	27	22
10	48	33	25	19	46	33	25	19	32	24	19	31	24	19	30	24	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	9507	9507	9507	9507	9507
5°	10165	9958	9336	8506	8298
10°	11122	9863	8184	7345	7135
15°	16261	9842	6847	6205	6419
20°	40889	10777	5278	5278	5938
25°	189875	13454	4105	4789	5473
30°	604472	18614	3102	4534	5489
35°	1048870	22706	2523	4289	5550
40°	1223249	22662	1888	4317	5665
45°	1254502	16075	2046	4676	6138
50°	1166625	9002	1608	4823	7073
55°	991552	4684	1802	5405	7927
60°	572640	1240	2067	5787	8680
65°	116834	0	2445	6846	9780
70°	1813	604	3021	7855	11481
75°	1597	799	3194	7985	13575
80°	1190	1190	4761	9521	15472
85°	0	2371	9485	9485	18970

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1254502 cd/sqm

TEST NUMBER: P1314527

CATALOG NUMBER: P3SQAS17R309735DE010 E3SQCA451MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.0	0.4
10°-20°	14.4	1.0
20°-30°	82.1	5.8
30°-40°	383.6	26.9
40°-50°	542.4	38.1
50°-60°	333.7	23.4
60°-70°	50.8	3.6
70°-80°	8.0	0.6
80°-90°	4.0	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°	101.5	7.1
0°-40°	485.0	34.1
0°-60°	1361.1	95.6
0°-90°	1424.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1424.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	55	55	55	55	55	
5°	59	58	54	49	48	6
15°	91	55	38	35	36	32
25°	999	71	22	25	29	615
35°	4989	108	12	20	26	2994
45°	5151	66	8	19	25	3905
55°	3302	16	6	18	26	2810
65°	287	0	6	17	24	519
75°	2	1	5	12	20	3
85°	0	1	5	5	10	0
90°	0	0	0	0	0	

TEST NUMBER: P1314527

CATALOG NUMBER: P3SQAS17R309735DE010 E3SQCA451MMS

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2
2.5°	56.4	56.4	57.6	57.6	56.4	57.6	57.6	57.6	55.2	54.0	51.6
5°	58.8	58.8	58.8	60.0	58.8	58.8	57.6	56.4	54.0	50.4	49.2
7.5°	61.2	61.2	60.0	61.2	60.0	60.0	57.6	55.2	51.6	48.0	45.6
10°	63.6	63.6	62.4	62.4	61.2	61.2	56.4	52.8	46.8	43.2	42.0
12.5°	70.8	70.8	69.6	68.4	66.0	64.8	55.2	49.2	42.0	38.4	37.2
15°	91.2	90.0	87.6	84.0	78.0	76.8	55.2	45.6	38.4	34.8	34.8
17.5°	124.7	123.6	120.0	110.4	99.6	96.0	55.2	40.8	33.6	31.2	31.2
20°	223.1	213.5	195.5	171.5	146.3	133.1	58.8	36.0	28.8	27.6	28.8
21°	291.5	281.9	259.1	219.5	175.1	160.7	61.2	34.8	27.6	26.4	28.8
22°	397.0	386.2	339.5	285.5	221.9	196.7	62.4	32.4	25.2	25.2	27.6
23°	554.2	536.2	457.0	370.7	277.1	241.1	64.8	31.2	24.0	25.2	26.4
24°	725.7	710.1	620.2	490.6	353.9	302.3	67.2	30.0	22.8	22.8	25.2
25°	999.2	981.2	821.7	619.0	448.6	363.5	70.8	27.6	21.6	21.6	25.2
26°	1353.1	1270.3	1058.0	797.7	553.0	455.8	74.4	26.4	20.4	21.6	24.0
27°	1688.9	1620.5	1381.8	1023.2	683.7	560.2	79.2	25.2	19.2	20.4	24.0
28°	2130.3	2034.4	1733.3	1294.3	861.3	677.7	84.0	24.0	18.0	20.4	22.8
29°	2624.5	2490.2	2126.7	1599.0	1061.6	809.7	88.8	22.8	16.8	19.2	22.8
30°	3039.6	2913.6	2550.2	1960.0	1291.9	983.6	93.6	21.6	15.6	19.2	22.8
31°	3526.6	3335.9	2895.6	2265.9	1489.8	1157.5	98.4	19.2	14.4	18.0	21.6
32°	3921.2	3788.1	3320.3	2611.3	1750.1	1349.5	102.0	18.0	14.4	18.0	21.6
33°	4302.7	4123.9	3671.7	2942.4	1985.2	1546.2	105.6	16.8	13.2	16.8	21.6
34°	4667.3	4503.0	4004.0	3209.9	2207.1	1733.3	108.0	14.4	13.2	16.8	20.4
35°	4988.8	4798.1	4296.7	3471.4	2435.0	1903.6	108.0	13.2	12.0	15.6	20.4
36°	5197.5	5060.8	4551.0	3729.3	2641.3	2065.6	108.0	12.0	10.8	15.6	19.2
37°	5376.2	5216.7	4754.9	3927.2	2793.7	2195.1	108.0	10.8	10.8	15.6	19.2
38°	5449.4	5312.7	4895.2	4102.3	2936.4	2327.1	106.8	9.6	9.6	14.4	19.2
39°	5478.2	5355.8	5000.8	4228.3	3042.0	2415.8	104.4	8.4	9.6	14.4	19.2
40°	5441.0	5348.6	5054.8	4309.9	3125.9	2480.6	100.8	7.2	8.4	14.4	19.2
42.5°	5287.5	5226.3	5042.8	4391.4	3197.9	2528.6	87.6	4.8	8.4	13.2	19.2
45°	5150.7	5083.6	4921.6	4306.3	3104.4	2433.8	66.0	2.4	8.4	13.2	19.2
47.5°	4885.6	4843.7	4716.5	4089.2	2899.2	2220.3	46.8	1.2	7.2	12.0	18.0
50°	4354.2	4314.7	4146.7	3550.6	2493.8	1877.2	33.6	1.2	6.0	12.0	18.0
52.5°	3878.0	3836.1	3595.0	2952.0	1915.6	1375.8	21.6	1.2	6.0	12.0	18.0
55°	3302.3	3229.1	2912.4	2240.7	1357.9	922.4	15.6	1.2	6.0	10.8	18.0
57.5°	2444.6	2337.9	2054.8	1528.2	782.1	500.2	8.4	1.2	6.0	10.8	18.0
60°	1662.5	1599.0	1285.9	806.1	333.5	211.1	3.6	1.2	6.0	10.8	16.8
62.5°	1007.6	927.2	646.5	343.1	143.9	96.0	0.0	2.4	6.0	10.8	16.8
65°	286.7	254.3	169.1	78.0	40.8	31.2	0.0	2.4	6.0	10.8	16.8
67.5°	9.6	9.6	9.6	8.4	6.0	6.0	1.2	2.4	6.0	10.8	15.6
70°	3.6	3.6	3.6	2.4	2.4	1.2	1.2	2.4	6.0	9.6	15.6
72.5°	2.4	2.4	2.4	2.4	1.2	1.2	1.2	2.4	4.8	8.4	14.4
75°	2.4	2.4	2.4	1.2	1.2	1.2	1.2	3.6	4.8	8.4	12.0
77.5°	2.4	2.4	2.4	1.2	1.2	1.2	1.2	3.6	4.8	7.2	12.0
80°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	3.6	4.8	7.2	9.6



TEST NUMBER: P1314527

CATALOG NUMBER: P3SQAS17R309735DE010 E3SQCA451MMS

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
82.5°	1.2	1.2	1.2	0.0	0.0	0.0	1.2	3.6	4.8	4.8	7.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	1.2	3.6	4.8	3.6	4.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.2	3.6	3.6	3.6	2.4
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: P1314527

CATALOG NUMBER: P3SQAS17R309735DE010 E3SQCA451MMS

CANDELA DISTRIBUTION (continued):

	157.5°	180°
0°	55.2	55.2
2.5°	51.6	51.6
5°	48.0	48.0
7.5°	44.4	44.4
10°	40.8	40.8
12.5°	38.4	38.4
15°	34.8	36.0
17.5°	32.4	33.6
20°	31.2	32.4
21°	31.2	32.4
22°	30.0	31.2
23°	30.0	31.2
24°	28.8	30.0
25°	27.6	28.8
26°	27.6	28.8
27°	27.6	28.8
28°	26.4	28.8
29°	26.4	27.6
30°	26.4	27.6
31°	25.2	27.6
32°	25.2	27.6
33°	25.2	26.4
34°	24.0	26.4
35°	24.0	26.4
36°	24.0	26.4
37°	24.0	25.2
38°	24.0	26.4
39°	24.0	25.2
40°	24.0	25.2
42.5°	24.0	25.2
45°	24.0	25.2
47.5°	24.0	26.4
50°	24.0	26.4
52.5°	24.0	26.4
55°	24.0	26.4
57.5°	24.0	25.2
60°	24.0	25.2
62.5°	22.8	25.2
65°	22.8	24.0
67.5°	22.8	24.0
70°	21.6	22.8
72.5°	20.4	21.6
75°	18.0	20.4
77.5°	16.8	18.0
80°	14.4	15.6

TEST NUMBER: P1314527

CATALOG NUMBER: P3SQAS17R309735DE010 E3SQCA451MMS

CANDELA DISTRIBUTION (continued):

	157.5°	180°
82.5°	12.0	12.0
85°	8.4	9.6
87.5°	4.8	4.8
90°	0.0	0.0

(END OF REPORT)