

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: P1311476

Luminaire Tested: P3SQAS17R309050DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1311476
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: P3SQAS17R309050DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R30 optic, 5000K CCT AND, 90CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

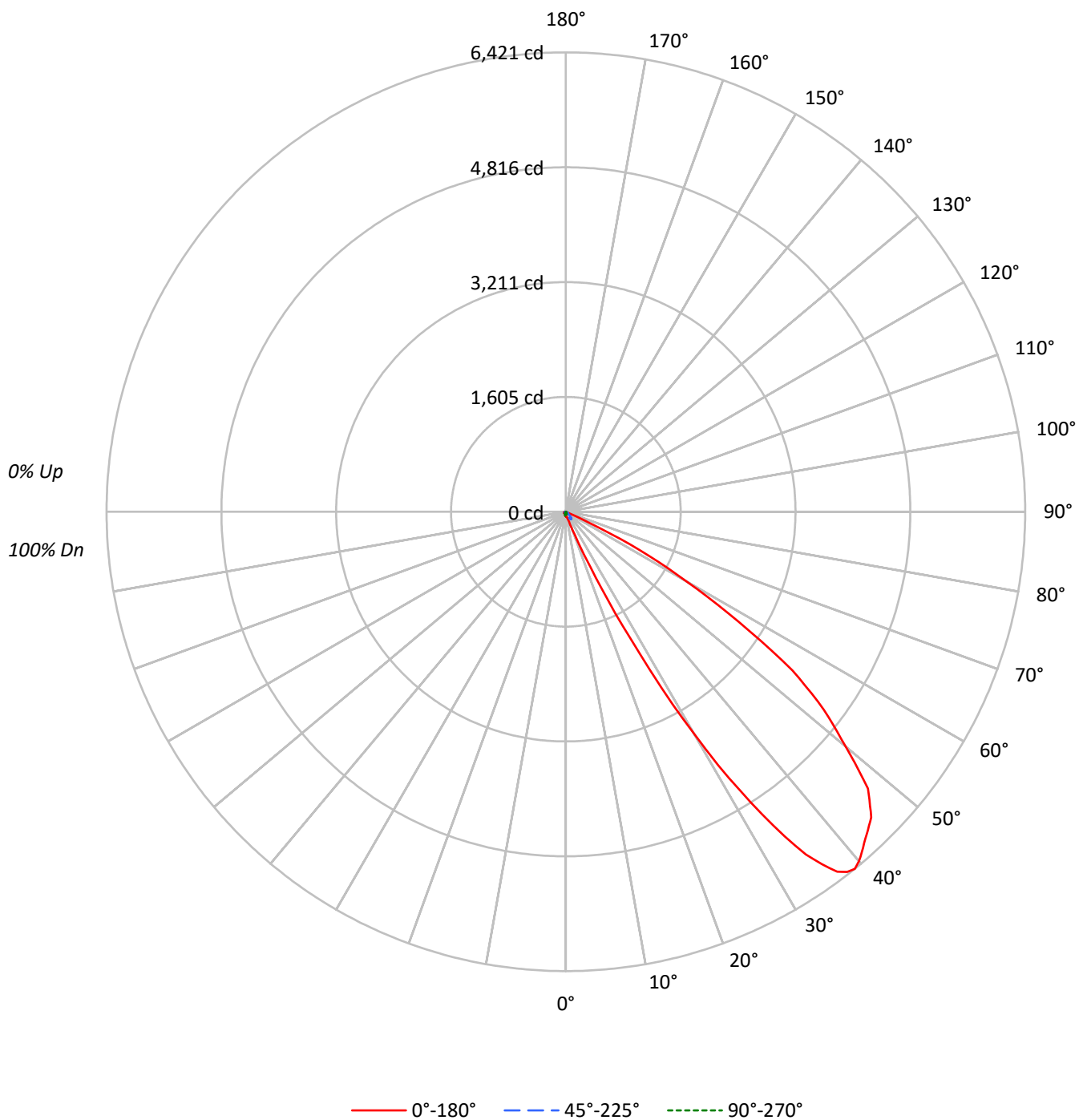
Lumens per Lamp: N/A
Luminaire Lumens: 1669.0 lumens
Efficiency: N/A
Efficacy: 78.7 lumens/watt
Spacing Criteria (0/90/45): 4.07 / 0.66 / 1.44
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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: P1311476

CATALOG NUMBER: P3SQAS17R309050DE010 E3SQCA451MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1311476

CATALOG NUMBER: P3SQAS17R309050DE010 E3SQCA451MMS

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	0
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	100	97	100	97	94		96	93	91		92	90	89	87
2	100	93	86	81	98	91	85	80	87	83	78		84	80	77		81	78	75	73
3	91	81	73	67	89	79	72	66	76	70	65		74	68	64		71	67	63	61
4	83	71	62	55	80	69	61	55	67	60	54		64	58	53		62	57	52	50
5	75	62	52	46	73	60	52	45	58	51	45		56	50	44		54	49	44	42
6	68	54	45	38	66	53	44	38	51	43	37		49	42	37		48	42	37	35
7	62	48	38	32	60	47	38	32	45	37	31		44	36	31		42	36	31	29
8	56	42	33	27	55	41	33	27	40	32	26		39	32	26		37	31	26	24
9	52	37	29	23	50	37	28	23	36	28	22		34	27	22		33	27	22	20
10	48	33	25	19	46	33	25	19	32	24	19		31	24	19		30	24	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	11143	11143	11143	11143	11143
5°	11911	11669	10943	9958	9716
10°	13029	11560	9583	8604	8359
15°	19042	11536	8023	7275	7524
20°	47927	12628	6176	6176	6964
25°	222540	15753	4808	5606	6404
30°	708459	21816	3639	5310	6423
35°	1229324	26596	2964	5025	6497
40°	1433704	26551	2203	5058	6632
45°	1470345	18827	2387	5480	7185
50°	1367358	10556	1876	5653	8279
55°	1162130	5495	2102	6336	9278
60°	671186	1447	2411	6786	10161
65°	136925	0	2853	8028	11451
70°	2115	705	3525	9215	13445
75°	1863	932	3726	9382	15903
80°	1389	1389	5554	11108	18150
85°	0	2766	11066	11066	22132

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1470345 cd/sqm

TEST NUMBER: P1311476

CATALOG NUMBER: P3SQAS17R309050DE010 E3SQCA451MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.8	0.4
10°-20°	16.8	1.0
20°-30°	96.2	5.8
30°-40°	449.5	26.9
40°-50°	635.7	38.1
50°-60°	391.1	23.4
60°-70°	59.6	3.6
70°-80°	9.4	0.6
80°-90°	4.7	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°	118.9	7.1
0°-40°	568.5	34.1
0°-60°	1595.3	95.6
0°-90°	1669.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1669.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	65	65	65	65	65	
5°	69	68	63	58	56	7
15°	107	65	45	41	42	38
25°	1171	83	25	30	34	721
35°	5847	126	14	24	31	3509
45°	6037	77	10	22	30	4577
55°	3870	18	7	21	31	3293
65°	336	0	7	20	28	608
75°	3	1	6	14	24	3
85°	0	1	6	6	11	1
90°	0	0	0	0	0	

TEST NUMBER: P1311476

CATALOG NUMBER: P3SQAS17R309050DE010 E3SQCA451MMS

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
2.5°	66.1	66.1	67.5	67.5	66.1	67.5	67.5	67.5	64.7	63.3	60.5
5°	68.9	68.9	68.9	70.3	68.9	68.9	67.5	66.1	63.3	59.0	57.6
7.5°	71.7	71.7	70.3	71.7	70.3	70.3	67.5	64.7	60.5	56.2	53.4
10°	74.5	74.5	73.1	73.1	71.7	71.7	66.1	61.9	54.8	50.6	49.2
12.5°	82.9	82.9	81.5	80.1	77.3	75.9	64.7	57.6	49.2	45.0	43.6
15°	106.8	105.4	102.6	98.4	91.4	90.0	64.7	53.4	45.0	40.8	40.8
17.5°	146.2	144.8	140.6	129.3	116.7	112.5	64.7	47.8	39.4	36.6	36.6
20°	261.5	250.2	229.2	201.0	171.5	156.1	68.9	42.2	33.7	32.3	33.7
21°	341.6	330.4	303.7	257.3	205.3	188.4	71.7	40.8	32.3	30.9	33.7
22°	465.4	452.7	397.9	334.6	260.1	230.6	73.1	38.0	29.5	29.5	32.3
23°	649.5	628.4	535.6	434.4	324.8	282.6	75.9	36.6	28.1	29.5	30.9
24°	850.6	832.3	726.8	575.0	414.7	354.3	78.7	35.1	26.7	26.7	29.5
25°	1171.1	1150.0	963.0	725.4	525.8	426.0	82.9	32.3	25.3	25.3	29.5
26°	1585.8	1488.8	1240.0	934.9	648.1	534.2	87.2	30.9	23.9	25.3	28.1
27°	1979.5	1899.4	1619.6	1199.2	801.4	656.6	92.8	29.5	22.5	23.9	28.1
28°	2496.9	2384.4	2031.5	1517.0	1009.4	794.3	98.4	28.1	21.1	23.9	26.7
29°	3076.1	2918.6	2492.7	1874.1	1244.2	949.0	104.0	26.7	19.7	22.5	26.7
30°	3562.5	3414.9	2988.9	2297.2	1514.1	1152.8	109.7	25.3	18.3	22.5	26.7
31°	4133.3	3909.8	3393.8	2655.7	1746.1	1356.7	115.3	22.5	16.9	21.1	25.3
32°	4595.9	4439.8	3891.5	3060.6	2051.2	1581.6	119.5	21.1	16.9	21.1	25.3
33°	5042.9	4833.5	4303.4	3448.7	2326.8	1812.2	123.7	19.7	15.5	19.7	25.3
34°	5470.3	5277.7	4692.9	3762.2	2586.8	2031.5	126.5	16.9	15.5	19.7	23.9
35°	5847.1	5623.6	5035.9	4068.7	2854.0	2231.2	126.5	15.5	14.1	18.3	23.9
36°	6091.7	5931.5	5334.0	4370.9	3095.8	2421.0	126.5	14.1	12.7	18.3	22.5
37°	6301.2	6114.2	5573.0	4602.9	3274.3	2572.8	126.5	12.7	12.7	18.3	22.5
38°	6387.0	6226.7	5737.5	4808.2	3441.6	2727.4	125.1	11.2	11.2	16.9	22.5
39°	6420.7	6277.3	5861.2	4955.8	3565.4	2831.5	122.3	9.8	11.2	16.9	22.5
40°	6377.1	6268.9	5924.4	5051.4	3663.8	2907.4	118.1	8.4	9.8	16.9	22.5
42.5°	6197.2	6125.5	5910.4	5147.0	3748.1	2963.6	102.6	5.6	9.8	15.5	22.5
45°	6036.9	5958.2	5768.4	5047.2	3638.5	2852.6	77.3	2.8	9.8	15.5	22.5
47.5°	5726.2	5677.0	5528.0	4792.7	3398.0	2602.3	54.8	1.4	8.4	14.1	21.1
50°	5103.4	5057.0	4860.2	4161.4	2922.9	2200.2	39.4	1.4	7.0	14.1	21.1
52.5°	4545.3	4496.1	4213.5	3459.9	2245.2	1612.6	25.3	1.4	7.0	14.1	21.1
55°	3870.4	3784.7	3413.5	2626.2	1591.5	1081.1	18.3	1.4	7.0	12.7	21.1
57.5°	2865.2	2740.1	2408.3	1791.1	916.6	586.3	9.8	1.4	7.0	12.7	21.1
60°	1948.6	1874.1	1507.1	944.8	390.8	247.4	4.2	1.4	7.0	12.7	19.7
62.5°	1181.0	1086.8	757.8	402.1	168.7	112.5	0.0	2.8	7.0	12.7	19.7
65°	336.0	298.0	198.2	91.4	47.8	36.6	0.0	2.8	7.0	12.7	19.7
67.5°	11.2	11.2	11.2	9.8	7.0	7.0	1.4	2.8	7.0	12.7	18.3
70°	4.2	4.2	4.2	2.8	2.8	1.4	1.4	2.8	7.0	11.2	18.3
72.5°	2.8	2.8	2.8	2.8	1.4	1.4	1.4	2.8	5.6	9.8	16.9
75°	2.8	2.8	2.8	1.4	1.4	1.4	1.4	4.2	5.6	9.8	14.1
77.5°	2.8	2.8	2.8	1.4	1.4	1.4	1.4	4.2	5.6	8.4	14.1
80°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	4.2	5.6	8.4	11.2



TEST NUMBER: P1311476

CATALOG NUMBER: P3SQAS17R309050DE010 E3SQCA451MMS

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
82.5°	1.4	1.4	1.4	0.0	0.0	0.0	1.4	4.2	5.6	5.6	8.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	1.4	4.2	5.6	4.2	5.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.4	4.2	4.2	4.2	2.8
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: P1311476

CATALOG NUMBER: P3SQAS17R309050DE010 E3SQCA451MMS

CANDELA DISTRIBUTION (continued):

	157.5°	180°
0°	64.7	64.7
2.5°	60.5	60.5
5°	56.2	56.2
7.5°	52.0	52.0
10°	47.8	47.8
12.5°	45.0	45.0
15°	40.8	42.2
17.5°	38.0	39.4
20°	36.6	38.0
21°	36.6	38.0
22°	35.1	36.6
23°	35.1	36.6
24°	33.7	35.1
25°	32.3	33.7
26°	32.3	33.7
27°	32.3	33.7
28°	30.9	33.7
29°	30.9	32.3
30°	30.9	32.3
31°	29.5	32.3
32°	29.5	32.3
33°	29.5	30.9
34°	28.1	30.9
35°	28.1	30.9
36°	28.1	30.9
37°	28.1	29.5
38°	28.1	30.9
39°	28.1	29.5
40°	28.1	29.5
42.5°	28.1	29.5
45°	28.1	29.5
47.5°	28.1	30.9
50°	28.1	30.9
52.5°	28.1	30.9
55°	28.1	30.9
57.5°	28.1	29.5
60°	28.1	29.5
62.5°	26.7	29.5
65°	26.7	28.1
67.5°	26.7	28.1
70°	25.3	26.7
72.5°	23.9	25.3
75°	21.1	23.9
77.5°	19.7	21.1
80°	16.9	18.3



TEST NUMBER: P1311476

CATALOG NUMBER: P3SQAS17R309050DE010 E3SQCA451MMS

CANDELA DISTRIBUTION (continued):

	157.5°	180°
82.5°	14.1	14.1
85°	9.8	11.2
87.5°	5.6	5.6
90°	0.0	0.0

(END OF REPORT)