

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: P1311520

Luminaire Tested: P3SQAS17R459050DE010 E3SQCA451MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1311520
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-84)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS17R459050DE010 E3SQCA451MW
Description: 3in Adjustable LED luminaire with, R45 optic, 5000K CCT AND, 90CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

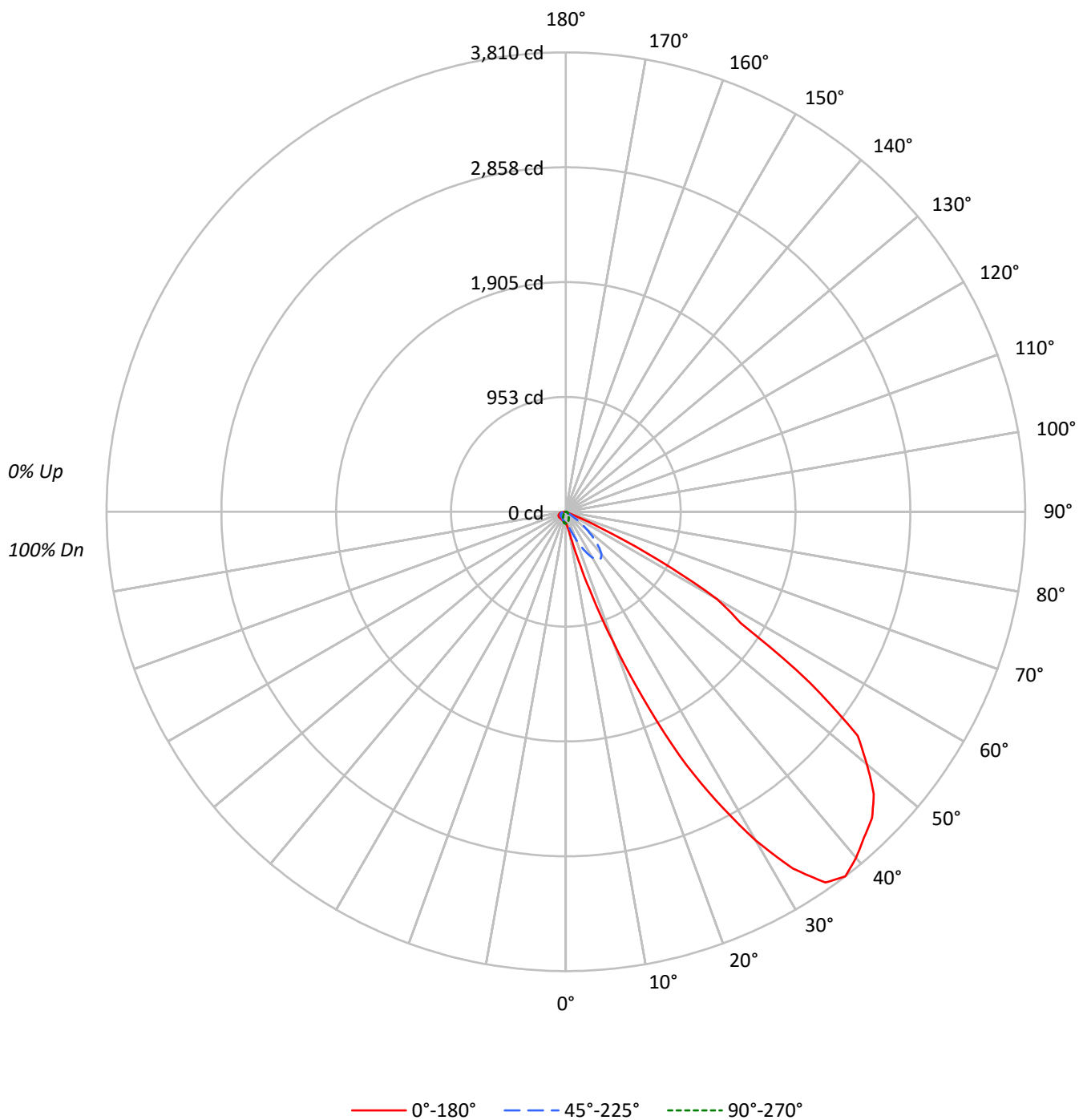
Lumens per Lamp: N/A
Luminaire Lumens: 1702.0 lumens
Efficiency: N/A
Efficacy: 80.3 lumens/watt
Spacing Criteria (0/90/45): 3.81 / 0.82 / 1.83
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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: P1311520

CATALOG NUMBER: P3SQAS17R459050DE010 E3SQCA451MW

Luminous Intensity Polar Plot



TEST NUMBER: P1311520

CATALOG NUMBER: P3SQAS17R459050DE010 E3SQCA451MW

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	107	104	100	97	99	97	94	96	93	91	92	90	88
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53
5	76	63	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38
7	63	49	40	34	61	48	40	33	47	39	33	45	38	33	44	37	33
8	58	44	35	29	56	43	35	29	42	34	29	40	33	28	39	33	28
9	53	39	31	25	52	39	30	25	38	30	25	36	29	25	35	29	24
10	49	36	27	22	48	35	27	22	34	27	21	33	26	21	32	26	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	16947	16947	16947	16947	16947
5°	20175	18723	16769	15559	15559
10°	32213	21895	15739	14760	14760
15°	80234	29330	14299	13782	14299
20°	211353	43821	12371	13141	13911
25°	424368	64932	10699	12295	13625
30°	625611	86984	8671	12031	13980
35°	789155	102011	7401	11837	14486
40°	841953	103080	6632	12320	15490
45°	874793	85977	6162	13347	16781
50°	873428	59909	6028	14308	18836
55°	742335	26603	6336	16034	20688
60°	498929	5339	6303	17911	23732
65°	132401	2282	6316	19479	26937
70°	3525	2820	6395	21250	30464
75°	2795	2795	6521	22491	34602
80°	2777	4166	6943	23704	39077
85°	2766	5533	11066	25096	38928

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 10°

Vertical Angle: 47.5°

Luminance: 897325 cd/sqm

TEST NUMBER: P1311520

CATALOG NUMBER: P3SQAS17R459050DE010 E3SQCA451MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.8	0.6
10°-20°	48.0	2.8
20°-30°	198.0	11.6
30°-40°	417.3	24.5
40°-50°	514.8	30.2
50°-60°	385.9	22.7
60°-70°	99.3	5.8
70°-80°	20.6	1.2
80°-90°	8.3	0.5
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°	255.8	15.0
0°-40°	673.1	39.5
0°-60°	1573.8	92.5
0°-90°	1702.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1702.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	98	98	98	98	98	
5°	117	108	97	90	90	13
15°	450	164	80	77	80	165
25°	2233	342	56	65	72	1041
35°	3754	485	35	56	69	2287
45°	3592	353	25	55	69	2748
55°	2472	89	21	53	69	2135
65°	325	6	16	48	66	468
75°	4	4	10	34	52	5
85°	1	3	6	13	20	2
90°	0	0	0	0	0	

TEST NUMBER: P1311520

CATALOG NUMBER: P3SQAS17R459050DE010 E3SQCA451MW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
2.5°	104.1	104.1	104.1	104.1	104.1	104.1	104.1	102.7	101.3	98.4	95.6
5°	116.7	115.3	115.3	115.3	113.9	112.5	112.5	108.3	102.7	97.0	92.8
7.5°	137.8	137.8	136.4	133.6	132.2	129.4	126.6	115.3	102.7	94.2	88.6
10°	184.2	181.4	177.2	174.4	167.4	157.5	150.5	125.2	101.3	90.0	85.8
12.5°	275.6	281.3	267.2	253.1	233.4	215.2	192.7	142.0	101.3	85.8	81.6
15°	450.0	459.9	433.1	405.0	357.2	312.2	270.0	164.5	98.4	80.2	75.9
17.5°	735.5	748.2	703.2	637.1	562.5	472.5	395.2	195.5	95.6	74.5	71.7
20°	1153.2	1151.8	1064.6	981.6	838.2	706.0	561.1	239.1	91.4	67.5	67.5
22.5°	1666.5	1672.1	1565.2	1416.2	1212.2	999.9	769.3	289.7	85.8	61.9	63.3
25°	2233.2	2185.4	2058.9	1877.4	1617.3	1323.3	1019.6	341.7	80.2	56.3	59.1
27.5°	2705.8	2659.4	2514.5	2299.3	2019.5	1670.7	1274.1	393.8	73.1	50.6	54.8
30°	3145.9	3086.9	2912.5	2669.2	2335.9	1959.0	1513.2	437.4	64.7	43.6	50.6
32.5°	3508.8	3455.3	3257.0	2974.4	2611.5	2206.5	1715.7	471.1	56.3	39.4	47.8
35°	3753.5	3698.6	3515.8	3205.0	2809.8	2386.5	1880.3	485.2	49.2	35.2	46.4
37.5°	3809.7	3780.2	3649.4	3358.3	2946.2	2501.8	1985.7	481.0	40.8	32.3	43.6
40°	3745.0	3752.1	3690.2	3448.3	3019.4	2551.1	2029.3	458.5	33.8	29.5	42.2
42.5°	3662.1	3680.3	3676.1	3484.9	3050.3	2553.9	2011.0	413.5	26.7	26.7	40.8
45°	3591.7	3610.0	3635.3	3469.4	3029.2	2517.3	1953.4	353.0	19.7	25.3	40.8
47.5°	3463.8	3483.5	3520.0	3345.6	2922.3	2423.1	1849.3	286.9	14.1	23.9	39.4
50°	3259.9	3269.7	3259.9	3064.4	2717.0	2271.2	1680.6	223.6	9.8	22.5	39.4
52.5°	3050.3	3030.6	2949.1	2701.5	2390.7	2030.7	1468.2	158.9	7.0	21.1	38.0
55°	2472.3	2441.4	2380.9	2229.0	2051.8	1735.4	1186.9	88.6	7.0	21.1	36.6
57.5°	1722.7	1739.6	1760.7	1729.8	1648.2	1366.9	901.5	39.4	7.0	19.7	36.6
60°	1448.5	1434.4	1435.9	1416.2	1281.2	997.1	620.2	15.5	7.0	18.3	35.2
62.5°	864.9	874.7	893.0	897.2	763.6	556.9	324.9	7.0	7.0	16.9	33.8
65°	324.9	340.3	298.1	258.8	205.3	150.5	75.9	5.6	8.4	15.5	30.9
67.5°	9.8	11.3	14.1	12.7	12.7	11.3	8.4	5.6	8.4	14.1	29.5
70°	7.0	7.0	7.0	7.0	7.0	5.6	5.6	5.6	7.0	12.7	26.7
72.5°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	7.0	11.3	23.9
75°	4.2	5.6	4.2	4.2	4.2	4.2	4.2	4.2	7.0	9.8	19.7
77.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	5.6	8.4	16.9
80°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	4.2	5.6	7.0	14.1
82.5°	2.8	2.8	2.8	1.4	2.8	2.8	2.8	2.8	5.6	5.6	11.3
85°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.8	4.2	5.6	7.0
87.5°	0.0	0.0	0.0	0.0	1.4	1.4	1.4	2.8	4.2	4.2	4.2
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: P1311520

CATALOG NUMBER: P3SQAS17R459050DE010 E3SQCA451MW

CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
0°	98.4	98.4	98.4
2.5°	92.8	92.8	92.8
5°	90.0	90.0	90.0
7.5°	87.2	87.2	87.2
10°	84.4	84.4	84.4
12.5°	81.6	81.6	83.0
15°	77.3	80.2	80.2
17.5°	74.5	77.3	78.8
20°	71.7	74.5	75.9
22.5°	67.5	71.7	74.5
25°	64.7	70.3	71.7
27.5°	61.9	68.9	71.7
30°	60.5	67.5	70.3
32.5°	57.7	66.1	68.9
35°	56.3	66.1	68.9
37.5°	56.3	64.7	68.9
40°	54.8	64.7	68.9
42.5°	54.8	64.7	68.9
45°	54.8	64.7	68.9
47.5°	53.4	64.7	70.3
50°	53.4	66.1	70.3
52.5°	53.4	66.1	70.3
55°	53.4	66.1	68.9
57.5°	52.0	64.7	68.9
60°	52.0	64.7	68.9
62.5°	49.2	63.3	67.5
65°	47.8	61.9	66.1
67.5°	45.0	60.5	63.3
70°	42.2	56.3	60.5
72.5°	38.0	53.4	57.7
75°	33.8	49.2	52.0
77.5°	29.5	43.6	46.4
80°	23.9	36.6	39.4
82.5°	18.3	28.1	29.5
85°	12.7	18.3	19.7
87.5°	5.6	8.4	9.8
90°	0.0	0.0	0.0

(END OF REPORT)