

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: P1312515

Luminaire Tested: P3SQAS13R659727DE010 E3SQCA451MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1312515
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-82)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS13R659727DE010 E3SQCA451MW
Description: 3in Adjustable LED luminaire with, R65 optic, 2700K CCT AND, 97CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

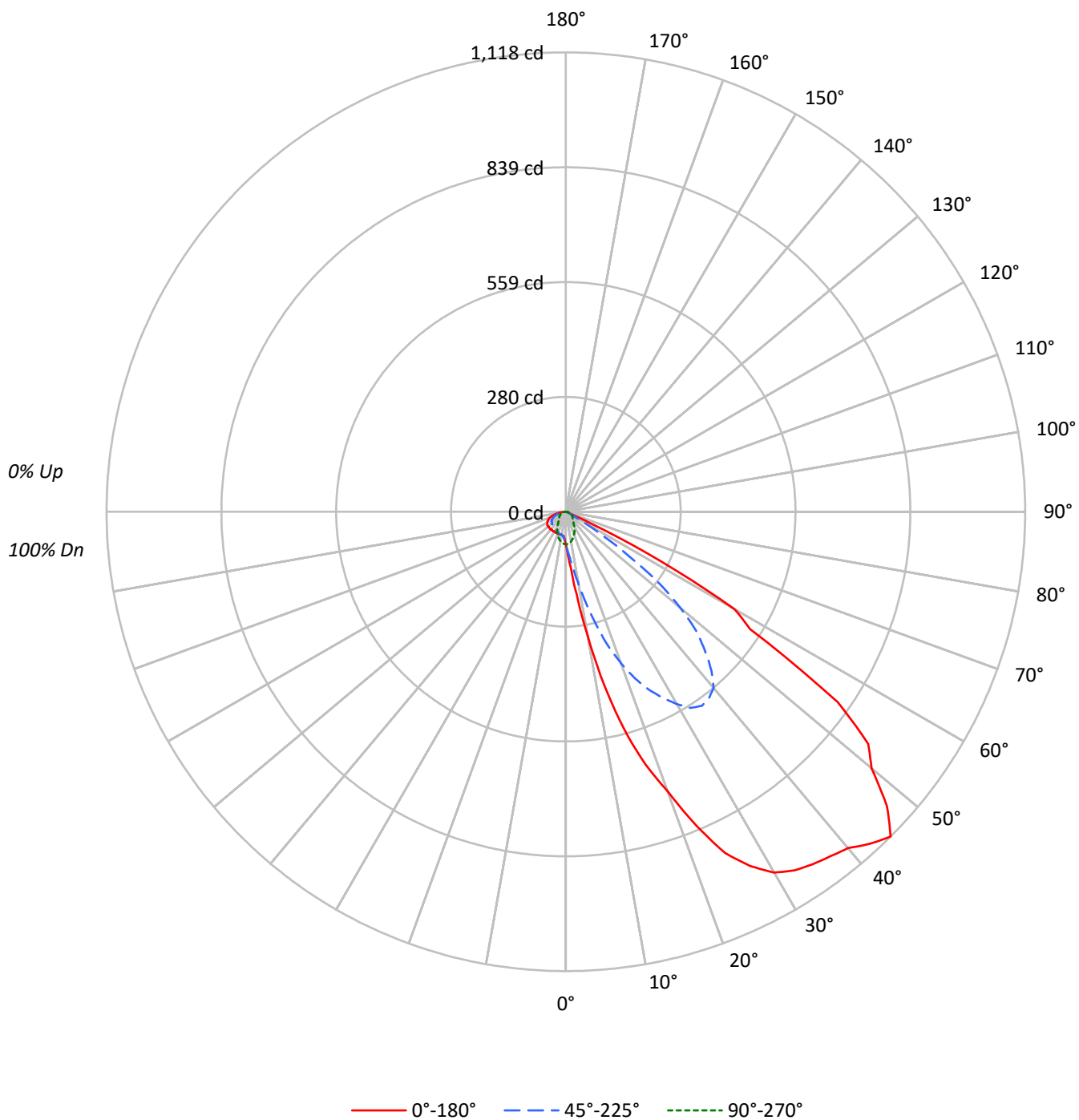
Lumens per Lamp: N/A
Luminaire Lumens: 811.0 lumens
Efficiency: N/A
Efficacy: 55.5 lumens/watt
Spacing Criteria (0/90/45): 3.28 / 0.89 / 2.04
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.6
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: P1312515

CATALOG NUMBER: P3SQAS13R659727DE010 E3SQCA451MW

Luminous Intensity Polar Plot



TEST NUMBER: P1312515

CATALOG NUMBER: P3SQAS13R659727DE010 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	100	97	100	97	94	96	94	91	92	90	89	87		
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	74		
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	62		
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55	53		
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45		
6	71	57	49	42	69	57	48	42	55	47	42	53	46	41	51	46	41	39		
7	65	52	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	34		
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29		
9	56	42	34	28	54	41	33	28	40	33	28	39	33	28	38	32	28	26		
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	13588	13588	13588	13588	13588
5°	23754	19397	13364	10822	10407
10°	53758	31286	12801	9951	10091
15°	97725	50316	11892	10003	10288
20°	132490	71826	10722	9989	10428
25°	174140	90700	9425	9729	10660
30°	201650	107547	8094	9705	11156
35°	220211	121206	6833	9924	11795
40°	240221	125787	6025	10432	12612
45°	272324	116665	5748	11082	13664
50°	260134	97393	5653	11762	15031
55°	242461	54678	5855	12701	16604
60°	163302	11780	5890	13433	17911
65°	25184	2975	5624	13937	19561
70°	2870	2870	5338	14351	20897
75°	2728	2728	4858	14040	21094
80°	2380	3273	4860	12893	20927
85°	1581	3162	4742	12844	19365

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 272324 cd/sqm

TEST NUMBER: P1312515

CATALOG NUMBER: P3SQAS13R659727DE010 E3SQCA451MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.6	1.2
10°-20°	51.6	6.4
20°-30°	121.2	14.9
30°-40°	183.1	22.6
40°-50°	210.4	25.9
50°-60°	167.1	20.6
60°-70°	50.0	6.2
70°-80°	13.6	1.7
80°-90°	4.6	0.6
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°	182.3	22.5
0°-40°	365.3	45.0
0°-60°	742.8	91.6
0°-90°	811.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	811.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	79	79	79	79	79	
5°	137	112	77	63	60	18
15°	548	282	67	56	58	158
25°	916	477	50	51	56	418
35°	1047	576	32	47	56	657
45°	1118	479	24	46	56	831
55°	808	182	20	42	55	665
65°	62	7	14	34	48	139
75°	4	4	7	21	32	4
85°	1	2	2	6	10	1
90°	0	0	0	0	0	

TEST NUMBER: P1312515

CATALOG NUMBER: P3SQAS13R659727DE010 E3SQCA451MW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9
2.5°	100.0	100.8	100.0	100.0	99.2	98.4	92.7	86.2	78.9	73.2	69.1
5°	137.4	138.2	135.8	135.8	134.2	131.7	112.2	93.5	77.3	68.3	62.6
7.5°	203.3	206.5	202.5	197.6	188.7	187.0	139.9	100.8	75.6	63.4	58.5
10°	307.4	304.9	300.9	291.1	275.7	268.3	178.9	108.2	73.2	60.2	56.9
12.5°	433.4	426.9	422.0	404.1	383.0	370.8	227.7	114.7	69.9	56.9	56.1
15°	548.1	543.2	531.8	514.7	488.7	479.0	282.2	118.7	66.7	54.5	56.1
17.5°	644.8	640.0	633.5	616.4	589.5	574.9	343.2	121.2	62.6	52.9	55.3
20°	722.9	719.6	710.7	696.9	670.0	656.2	391.9	121.2	58.5	51.2	54.5
22.5°	823.7	816.4	805.0	784.7	751.4	730.2	438.3	118.7	54.5	49.6	52.9
25°	916.4	911.6	896.9	872.5	836.7	815.6	477.3	113.8	49.6	47.2	51.2
27.5°	971.7	968.5	954.7	929.4	889.6	873.3	509.9	106.5	44.7	44.7	50.4
30°	1014.0	1007.5	993.7	969.3	928.6	909.1	540.8	97.6	40.7	42.3	48.8
32.5°	1035.2	1032.7	1020.5	999.4	959.5	937.6	566.0	86.2	35.8	40.7	48.0
35°	1047.4	1044.9	1035.2	1014.8	977.4	956.3	576.5	75.6	32.5	39.0	47.2
37.5°	1057.1	1054.7	1042.5	1022.1	984.7	962.8	571.7	64.2	29.3	37.4	46.4
40°	1068.5	1059.5	1040.8	1020.5	986.4	965.2	559.5	53.7	26.8	36.6	46.4
42.5°	1096.1	1065.2	1036.0	1017.3	984.7	960.3	524.5	42.3	24.4	35.0	45.5
45°	1118.1	1063.6	1026.2	1011.6	978.2	950.6	479.0	30.9	23.6	34.2	45.5
47.5°	1060.4	1027.0	1009.9	1001.8	966.0	935.9	431.8	21.1	22.8	33.3	44.7
50°	970.9	966.8	960.3	961.2	928.6	904.2	363.5	14.6	21.1	32.5	43.9
52.5°	927.8	922.9	911.6	903.4	870.9	849.8	287.9	11.4	20.3	31.7	43.1
55°	807.5	810.7	798.5	803.4	793.6	783.1	182.1	10.6	19.5	30.1	42.3
57.5°	531.8	548.1	576.5	610.7	641.6	662.7	98.4	10.6	17.9	29.3	40.7
60°	474.1	470.0	469.2	475.7	489.5	500.9	34.2	9.8	17.1	26.8	39.0
62.5°	259.4	257.8	282.2	323.6	348.0	350.5	9.8	9.8	15.5	25.2	36.6
65°	61.8	64.2	71.6	89.4	105.7	116.3	7.3	8.9	13.8	23.6	34.2
67.5°	9.8	10.6	10.6	13.0	14.6	14.6	6.5	8.1	12.2	21.1	31.7
70°	5.7	5.7	5.7	5.7	5.7	5.7	5.7	7.3	10.6	18.7	28.5
72.5°	4.9	4.9	4.9	4.9	4.9	4.9	5.7	6.5	8.9	16.3	24.4
75°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	5.7	7.3	13.0	21.1
77.5°	3.3	3.3	3.3	3.3	3.3	3.3	4.1	4.9	6.5	10.6	17.1
80°	2.4	2.4	2.4	2.4	2.4	2.4	3.3	4.1	4.9	8.1	13.0
82.5°	1.6	1.6	1.6	1.6	1.6	1.6	2.4	3.3	4.1	6.5	9.8
85°	0.8	0.8	0.8	0.8	1.6	1.6	1.6	2.4	2.4	4.1	6.5
87.5°	0.8	0.8	0.8	0.8	0.8	0.8	1.6	1.6	1.6	2.4	3.3
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: P1312515

CATALOG NUMBER: P3SQAS13R659727DE010 E3SQCA451MW

CANDELA DISTRIBUTION (continued):

	157.5°	180°
0°	78.9	78.9
2.5°	66.7	65.9
5°	60.2	60.2
7.5°	57.7	57.7
10°	56.9	57.7
12.5°	56.9	57.7
15°	56.9	57.7
17.5°	56.9	57.7
20°	56.1	56.9
22.5°	55.3	56.1
25°	54.5	56.1
27.5°	53.7	56.1
30°	53.7	56.1
32.5°	53.7	56.1
35°	52.9	56.1
37.5°	52.9	56.1
40°	52.9	56.1
42.5°	52.9	56.1
45°	52.9	56.1
47.5°	52.9	56.1
50°	52.9	56.1
52.5°	52.0	56.1
55°	52.0	55.3
57.5°	50.4	53.7
60°	48.8	52.0
62.5°	47.2	50.4
65°	44.7	48.0
67.5°	42.3	44.7
70°	38.2	41.5
72.5°	34.2	36.6
75°	29.3	31.7
77.5°	24.4	26.8
80°	19.5	21.1
82.5°	13.8	15.5
85°	8.9	9.8
87.5°	4.1	4.1
90°	0.0	0.0

(END OF REPORT)