

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: P1315263

Luminaire Tested: P3SQAS09R659740DE010 E3SQCA451MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1315263
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: P3SQAS09R659740DE010 E3SQCA451MW
Description: 3in Adjustable LED luminaire with, R65 optic, 4000K CCT AND, 97CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

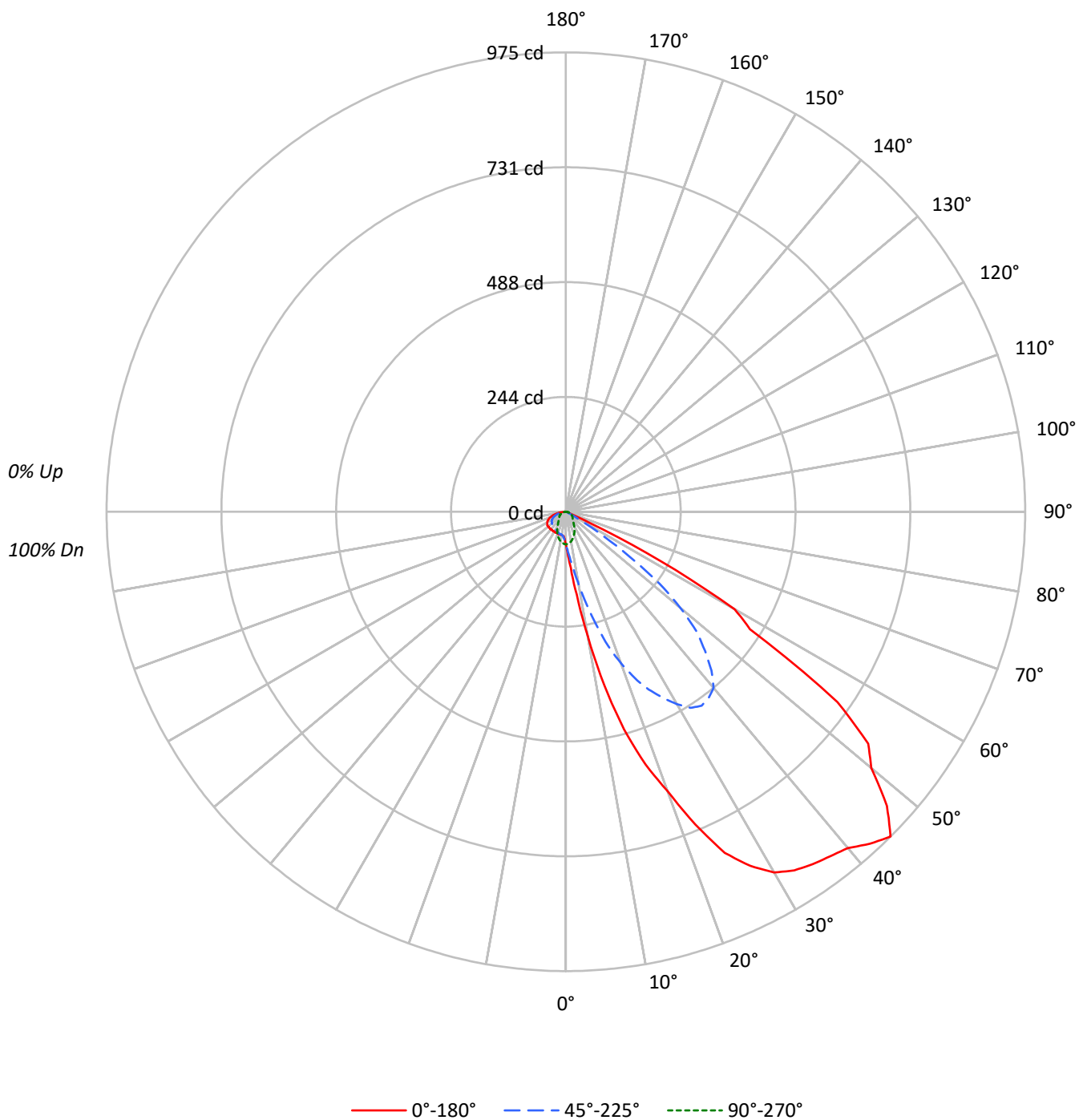
Lumens per Lamp: N/A
Luminaire Lumens: 707.0 lumens
Efficiency: N/A
Efficacy: 63.7 lumens/watt
Spacing Criteria (0/90/45): 3.28 / 0.89 / 2.04
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11.1
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: P1315263

CATALOG NUMBER: P3SQAS09R659740DE010 E3SQCA451MW

Luminous Intensity Polar Plot



TEST NUMBER: P1315263

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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°	11849	11849	11849	11849	11849
5°	20711	16908	11635	9439	9076
10°	46868	27281	11157	8674	8796
15°	85191	43861	10359	8719	8968
20°	115500	62625	9347	8706	9090
25°	151812	79070	8209	8494	9292
30°	175797	93745	7040	8452	9725
35°	191954	105669	5971	8641	10281
40°	209420	109645	5261	9083	10994
45°	237398	101686	5017	9669	11910
50°	226777	84907	4930	10262	13102
55°	211354	47681	5104	11080	14473
60°	142359	10264	5132	11711	15638
65°	21965	2608	4931	12144	17034
70°	2518	2518	4633	12488	18228
75°	2329	2329	4259	12244	18366
80°	2083	2777	4265	11207	18249
85°	1383	2766	4150	11263	16796

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 237398 cd/sqm

TEST NUMBER: P1315263

CATALOG NUMBER: P3SQAS09R659740DE010 E3SQCA451MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.3	1.2
10°-20°	45.0	6.4
20°-30°	105.6	14.9
30°-40°	159.6	22.6
40°-50°	183.4	25.9
50°-60°	145.6	20.6
60°-70°	43.6	6.2
70°-80°	11.9	1.7
80°-90°	4.0	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°	158.9	22.5
0°-40°	318.5	45.0
0°-60°	647.5	91.6
0°-90°	707.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	707.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	69	69	69	69	69	
5°	120	98	67	55	52	16
15°	478	246	58	49	50	138
25°	799	416	43	45	49	365
35°	913	503	28	41	49	573
45°	975	418	21	40	49	724
55°	704	159	17	37	48	580
65°	54	6	12	30	42	121
75°	4	4	6	18	28	4
85°	1	1	2	6	8	1
90°	0	0	0	0	0	

TEST NUMBER: P1315263

CATALOG NUMBER: P3SQAS09R659740DE010 E3SQCA451MW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
2.5°	87.2	87.9	87.2	87.2	86.5	85.8	80.8	75.1	68.8	63.8	60.3
5°	119.8	120.5	118.4	118.4	117.0	114.8	97.8	81.5	67.3	59.5	54.6
7.5°	177.2	180.1	176.5	172.3	164.5	163.0	121.9	87.9	65.9	55.3	51.0
10°	268.0	265.8	262.3	253.8	240.3	233.9	156.0	94.3	63.8	52.5	49.6
12.5°	377.8	372.2	367.9	352.3	333.9	323.3	198.5	100.0	61.0	49.6	48.9
15°	477.8	473.5	463.6	448.7	426.0	417.5	246.0	103.5	58.1	47.5	48.9
17.5°	562.1	557.9	552.2	537.3	513.9	501.2	299.1	105.6	54.6	46.1	48.2
20°	630.2	627.4	619.6	607.5	584.1	572.1	341.7	105.6	51.0	44.7	47.5
22.5°	718.1	711.7	701.8	684.1	655.0	636.6	382.1	103.5	47.5	43.2	46.1
25°	798.9	794.7	781.9	760.6	729.4	711.0	416.1	99.2	43.2	41.1	44.7
27.5°	847.1	844.3	832.2	810.3	775.5	761.3	444.5	92.9	39.0	39.0	44.0
30°	884.0	878.3	866.3	845.0	809.5	792.5	471.4	85.1	35.4	36.9	42.5
32.5°	902.4	900.3	889.6	871.2	836.5	817.3	493.4	75.1	31.2	35.4	41.8
35°	913.0	910.9	902.4	884.7	852.1	833.6	502.6	65.9	28.4	34.0	41.1
37.5°	921.5	919.4	908.8	891.1	858.5	839.3	498.3	56.0	25.5	32.6	40.4
40°	931.5	923.7	907.4	889.6	859.9	841.4	487.7	46.8	23.4	31.9	40.4
42.5°	955.6	928.6	903.1	886.8	858.5	837.2	457.2	36.9	21.3	30.5	39.7
45°	974.7	927.2	894.6	881.9	852.8	828.7	417.5	26.9	20.6	29.8	39.7
47.5°	924.4	895.3	880.4	873.3	842.2	815.9	376.4	18.4	19.8	29.1	39.0
50°	846.4	842.9	837.2	837.9	809.5	788.3	316.9	12.8	18.4	28.4	38.3
52.5°	808.8	804.6	794.7	787.6	759.2	740.8	250.9	9.9	17.7	27.6	37.6
55°	703.9	706.8	696.1	700.4	691.9	682.7	158.8	9.2	17.0	26.2	36.9
57.5°	463.6	477.8	502.6	532.4	559.3	577.7	85.8	9.2	15.6	25.5	35.4
60°	413.3	409.7	409.0	414.7	426.7	436.7	29.8	8.5	14.9	23.4	34.0
62.5°	226.1	224.7	246.0	282.1	303.4	305.5	8.5	8.5	13.5	22.0	31.9
65°	53.9	56.0	62.4	78.0	92.2	101.4	6.4	7.8	12.1	20.6	29.8
67.5°	8.5	9.2	9.2	11.3	12.8	12.8	5.7	7.1	10.6	18.4	27.6
70°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	6.4	9.2	16.3	24.8
72.5°	4.3	4.3	4.3	4.3	4.3	4.3	5.0	5.7	7.8	14.2	21.3
75°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	5.0	6.4	11.3	18.4
77.5°	2.8	2.8	2.8	2.8	2.8	2.8	3.5	4.3	5.7	9.2	14.9
80°	2.1	2.1	2.1	2.1	2.1	2.1	2.8	3.5	4.3	7.1	11.3
82.5°	1.4	1.4	1.4	1.4	1.4	1.4	2.1	2.8	3.5	5.7	8.5
85°	0.7	0.7	0.7	0.7	1.4	1.4	1.4	2.1	2.1	3.5	5.7
87.5°	0.7	0.7	0.7	0.7	0.7	0.7	1.4	1.4	1.4	2.1	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: P1315263

CATALOG NUMBER: P3SQAS09R659740DE010 E3SQCA451MW

CANDELA DISTRIBUTION (continued):

	157.5°	180°
0°	68.8	68.8
2.5°	58.1	57.4
5°	52.5	52.5
7.5°	50.3	50.3
10°	49.6	50.3
12.5°	49.6	50.3
15°	49.6	50.3
17.5°	49.6	50.3
20°	48.9	49.6
22.5°	48.2	48.9
25°	47.5	48.9
27.5°	46.8	48.9
30°	46.8	48.9
32.5°	46.8	48.9
35°	46.1	48.9
37.5°	46.1	48.9
40°	46.1	48.9
42.5°	46.1	48.9
45°	46.1	48.9
47.5°	46.1	48.9
50°	46.1	48.9
52.5°	45.4	48.9
55°	45.4	48.2
57.5°	44.0	46.8
60°	42.5	45.4
62.5°	41.1	44.0
65°	39.0	41.8
67.5°	36.9	39.0
70°	33.3	36.2
72.5°	29.8	31.9
75°	25.5	27.6
77.5°	21.3	23.4
80°	17.0	18.4
82.5°	12.1	13.5
85°	7.8	8.5
87.5°	3.5	3.5
90°	0.0	0.0

(END OF REPORT)