

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: P1309827

Luminaire Tested: P3SQAS02R659040DE010 E3SQCA451MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1309827
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: P3SQAS02R659040DE010 E3SQCA451MW
Description: 3in Adjustable LED luminaire with, R65 optic, 4000K CCT AND, 90CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

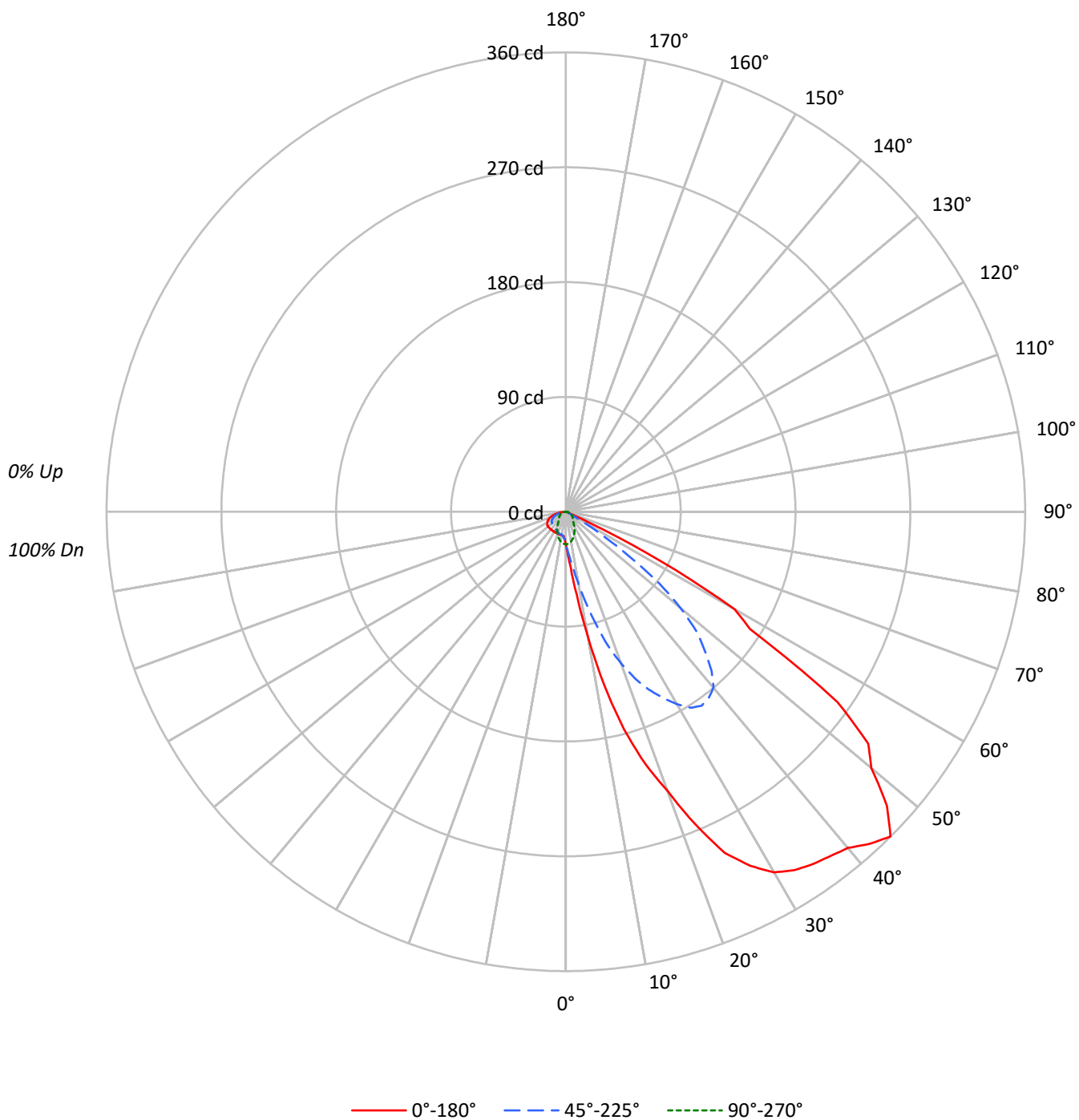
Lumens per Lamp: N/A
Luminaire Lumens: 261.0 lumens
Efficiency: N/A
Efficacy: 72.5 lumens/watt
Spacing Criteria (0/90/45): 3.28 / 0.89 / 2.04
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 3.6
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: P1309827

CATALOG NUMBER: P3SQAS02R659040DE010 E3SQCA451MW

Luminous Intensity Polar Plot



TEST NUMBER: P1309827

CATALOG NUMBER: P3SQAS02R659040DE010 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°	4374	4374	4374	4374	4374
5°	7641	6241	4305	3492	3354
10°	17296	10073	4127	3200	3253
15°	31452	16189	3833	3227	3316
20°	42630	23111	3446	3207	3354
25°	56039	29188	3040	3135	3439
30°	64890	34603	2605	3122	3599
35°	70874	39000	2208	3196	3805
40°	77316	40468	1933	3350	4069
45°	87633	37533	1851	3580	4408
50°	83728	31348	1822	3778	4850
55°	78038	17595	1892	4084	5345
60°	52562	3789	1894	4340	5752
65°	8110	978	1793	4483	6276
70°	906	906	1712	4633	6697
75°	865	865	1597	4525	6787
80°	793	992	1587	4166	6744
85°	593	988	1581	4150	6126

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 87633 cd/sqm

TEST NUMBER: P1309827

CATALOG NUMBER: P3SQAS02R659040DE010 E3SQCA451MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.1	1.2
10°-20°	16.6	6.4
20°-30°	39.0	14.9
30°-40°	58.9	22.6
40°-50°	67.7	25.9
50°-60°	53.8	20.6
60°-70°	16.1	6.2
70°-80°	4.4	1.7
80°-90°	1.5	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°	58.7	22.5
0°-40°	117.6	45.0
0°-60°	239.1	91.6
0°-90°	261.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	261.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	25	25	25	25	25	
5°	44	36	25	20	19	6
15°	176	91	22	18	19	51
25°	295	154	16	16	18	135
35°	337	186	10	15	18	212
45°	360	154	8	15	18	267
55°	260	59	6	14	18	214
65°	20	2	4	11	15	45
75°	1	1	2	7	10	1
85°	0	0	1	2	3	0
90°	0	0	0	0	0	

TEST NUMBER: P1309827

CATALOG NUMBER: P3SQAS02R659040DE010 E3SQCA451MW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4
2.5°	32.2	32.5	32.2	32.2	31.9	31.7	29.8	27.7	25.4	23.6	22.2
5°	44.2	44.5	43.7	43.7	43.2	42.4	36.1	30.1	24.9	22.0	20.2
7.5°	65.4	66.5	65.2	63.6	60.7	60.2	45.0	32.5	24.3	20.4	18.8
10°	98.9	98.1	96.8	93.7	88.7	86.4	57.6	34.8	23.6	19.4	18.3
12.5°	139.5	137.4	135.8	130.1	123.3	119.3	73.3	36.9	22.5	18.3	18.1
15°	176.4	174.8	171.1	165.7	157.3	154.1	90.8	38.2	21.5	17.5	18.1
17.5°	207.5	206.0	203.9	198.4	189.7	185.0	110.4	39.0	20.2	17.0	17.8
20°	232.6	231.6	228.7	224.3	215.6	211.2	126.1	39.0	18.8	16.5	17.5
22.5°	265.1	262.7	259.1	252.5	241.8	235.0	141.1	38.2	17.5	16.0	17.0
25°	294.9	293.4	288.7	280.8	269.3	262.5	153.6	36.6	16.0	15.2	16.5
27.5°	312.7	311.7	307.2	299.1	286.3	281.1	164.1	34.3	14.4	14.4	16.2
30°	326.3	324.2	319.8	311.9	298.9	292.6	174.0	31.4	13.1	13.6	15.7
32.5°	333.1	332.4	328.4	321.6	308.8	301.7	182.1	27.7	11.5	13.1	15.4
35°	337.1	336.3	333.1	326.6	314.6	307.8	185.5	24.3	10.5	12.6	15.2
37.5°	340.2	339.4	335.5	329.0	316.9	309.8	184.0	20.7	9.4	12.0	14.9
40°	343.9	341.0	335.0	328.4	317.4	310.6	180.0	17.3	8.6	11.8	14.9
42.5°	352.8	342.8	333.4	327.4	316.9	309.1	168.8	13.6	7.9	11.3	14.7
45°	359.8	342.3	330.3	325.5	314.8	305.9	154.1	9.9	7.6	11.0	14.7
47.5°	341.3	330.5	325.0	322.4	310.9	301.2	139.0	6.8	7.3	10.7	14.4
50°	312.5	311.2	309.1	309.3	298.9	291.0	117.0	4.7	6.8	10.5	14.1
52.5°	298.6	297.0	293.4	290.7	280.3	273.5	92.6	3.7	6.5	10.2	13.9
55°	259.9	260.9	257.0	258.6	255.4	252.0	58.6	3.4	6.3	9.7	13.6
57.5°	171.1	176.4	185.5	196.5	206.5	213.3	31.7	3.4	5.8	9.4	13.1
60°	152.6	151.3	151.0	153.1	157.5	161.2	11.0	3.1	5.5	8.6	12.6
62.5°	83.5	83.0	90.8	104.2	112.0	112.8	3.1	3.1	5.0	8.1	11.8
65°	19.9	20.7	23.0	28.8	34.0	37.4	2.4	2.9	4.4	7.6	11.0
67.5°	3.1	3.4	3.4	4.2	4.7	4.7	2.1	2.6	3.9	6.8	10.2
70°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.4	3.4	6.0	9.2
72.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.8	2.1	2.9	5.2	7.9
75°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.8	2.4	4.2	6.8
77.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.3	1.6	2.1	3.4	5.5
80°	0.8	0.8	0.8	0.8	0.8	0.8	1.0	1.3	1.6	2.6	4.2
82.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.8	1.0	1.3	2.1	3.1
85°	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.8	0.8	1.3	2.1
87.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.8	1.0
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: P1309827

CATALOG NUMBER: P3SQAS02R659040DE010 E3SQCA451MW

CANDELA DISTRIBUTION (continued):

	157.5°	180°
0°	25.4	25.4
2.5°	21.5	21.2
5°	19.4	19.4
7.5°	18.6	18.6
10°	18.3	18.6
12.5°	18.3	18.6
15°	18.3	18.6
17.5°	18.3	18.6
20°	18.1	18.3
22.5°	17.8	18.1
25°	17.5	18.1
27.5°	17.3	18.1
30°	17.3	18.1
32.5°	17.3	18.1
35°	17.0	18.1
37.5°	17.0	18.1
40°	17.0	18.1
42.5°	17.0	18.1
45°	17.0	18.1
47.5°	17.0	18.1
50°	17.0	18.1
52.5°	16.7	18.1
55°	16.7	17.8
57.5°	16.2	17.3
60°	15.7	16.7
62.5°	15.2	16.2
65°	14.4	15.4
67.5°	13.6	14.4
70°	12.3	13.3
72.5°	11.0	11.8
75°	9.4	10.2
77.5°	7.9	8.6
80°	6.3	6.8
82.5°	4.4	5.0
85°	2.9	3.1
87.5°	1.3	1.3
90°	0.0	0.0

(END OF REPORT)