

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: P1306447

Luminaire Tested: P3SQAS02R509027DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1306447
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-79)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS02R509027DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R50 optic, 2700K CCT AND, 90CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

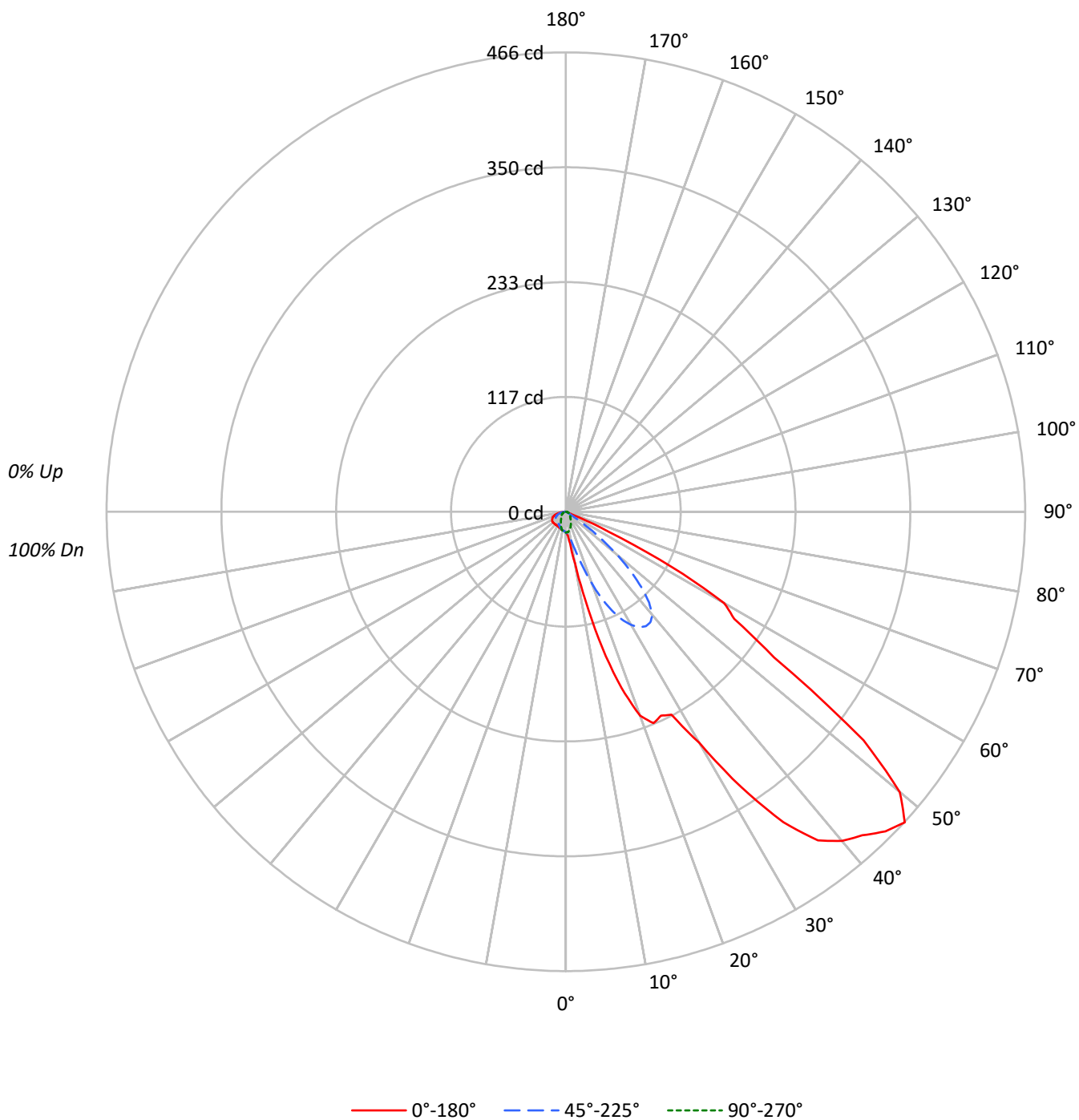
Lumens per Lamp: N/A
Luminaire Lumens: 263.0 lumens
Efficiency: N/A
Efficacy: 73.1 lumens/watt
Spacing Criteria (0/90/45): 3.58 / 0.83 / 1.91
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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: P1306447

CATALOG NUMBER: P3SQAS02R509027DE010 E3SQCA451MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1306447

CATALOG NUMBER: P3SQAS02R509027DE010 E3SQCA451MMS

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	98	107	103	100	97	99	96	94	95	93	91	92	90	88
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63
4	83	71	63	56	81	70	62	55	67	60	55	65	59	54	63	58	53
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	50	43	39
7	63	50	41	34	62	49	40	34	47	39	34	46	39	34	44	38	33
8	58	44	36	30	57	44	35	29	42	35	29	41	34	29	40	34	29
9	54	40	31	26	53	39	31	26	38	31	25	37	30	25	36	30	25
10	50	36	28	23	49	36	28	22	35	27	22	34	27	22	33	27	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	3599	3599	3599	3599	3599
5°	4287	4011	3579	3423	3371
10°	9216	4967	3410	3305	3340
15°	25514	8148	3085	3156	3281
20°	40339	14277	2657	3042	3207
25°	43383	20979	2280	2926	3230
30°	53853	26330	1989	2884	3341
35°	80818	29792	1724	2922	3532
40°	97999	30643	1529	3013	3732
45°	111648	26280	1486	3215	4092
50°	118506	18139	1527	3456	4555
55°	77407	7296	1501	3753	5044
60°	63860	1240	1481	4064	5546
65°	19235	652	1386	4360	6113
70°	806	705	1360	4482	6647
75°	732	732	1331	4525	7253
80°	694	694	1389	4463	7438
85°	395	988	1778	4545	7114

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 47.5°

Luminance: 118896 cd/sqm

TEST NUMBER: P1306447

CATALOG NUMBER: P3SQAS02R509027DE010 E3SQCA451MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.2	0.8
10°-20°	12.5	4.7
20°-30°	32.0	12.2
30°-40°	57.5	21.9
40°-50°	76.8	29.2
50°-60°	58.5	22.2
60°-70°	17.8	6.8
70°-80°	4.2	1.6
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°	46.6	17.7
0°-40°	104.1	39.6
0°-60°	239.5	91.0
0°-90°	263.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	263.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	21	21	21	21	21	
5°	25	23	21	20	20	3
15°	143	46	17	18	18	42
25°	228	110	12	15	17	109
35°	384	142	8	14	17	236
45°	458	108	6	13	17	350
55°	258	24	5	12	17	256
65°	47	2	3	11	15	65
75°	1	1	2	7	11	1
85°	0	0	1	2	4	0
90°	0	0	0	0	0	

TEST NUMBER: P1306447

CATALOG NUMBER: P3SQAS02R509027DE010 E3SQCA451MMS

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9
2.5°	22.3	22.3	22.3	22.3	22.3	22.3	22.0	22.0	22.0	21.6	21.1
5°	24.8	25.0	24.8	24.8	24.3	24.3	23.9	23.9	23.2	21.8	20.7
7.5°	32.5	32.3	32.0	31.1	30.4	28.8	28.2	27.0	25.0	21.8	20.2
10°	52.7	51.3	50.4	48.4	44.1	41.3	37.7	34.1	28.4	21.8	19.5
12.5°	91.5	91.3	88.6	81.8	75.6	67.2	58.4	49.5	35.0	21.4	18.6
15°	143.1	141.1	137.2	129.3	118.4	105.2	89.3	73.6	45.7	20.7	17.3
17.5°	187.2	184.7	181.7	173.8	161.3	144.7	125.6	104.0	60.2	19.8	15.9
20°	220.1	218.5	216.0	209.7	197.9	182.9	161.5	135.4	77.9	18.6	14.5
22.5°	232.2	231.9	232.4	230.1	224.2	212.4	192.0	164.7	95.4	17.3	13.2
25°	228.3	228.1	231.0	234.0	235.3	230.6	214.9	188.3	110.4	16.1	12.0
27.5°	231.9	231.3	229.9	230.3	234.2	236.9	229.7	206.5	123.3	14.5	10.9
30°	270.8	266.9	260.8	250.3	242.6	241.9	238.7	220.8	132.4	12.9	10.0
32.5°	331.4	326.7	315.5	296.2	277.8	263.7	253.7	232.8	138.8	11.4	8.9
35°	384.4	381.0	368.0	348.9	322.6	296.2	278.0	250.6	141.7	10.0	8.2
37.5°	420.3	418.9	406.2	385.7	358.9	327.8	303.7	268.7	141.1	8.4	7.5
40°	435.9	431.8	421.2	403.9	376.9	348.9	323.5	280.3	136.3	6.8	6.8
42.5°	445.2	440.7	429.1	412.8	386.2	356.4	325.8	275.3	124.9	5.5	6.6
45°	458.4	453.6	438.4	420.9	394.1	359.6	316.9	257.6	107.9	4.1	6.1
47.5°	466.4	463.2	451.8	434.3	401.9	355.1	296.4	241.0	89.0	3.2	5.9
50°	442.3	439.1	430.7	418.7	396.9	339.8	278.5	214.2	67.7	2.5	5.7
52.5°	380.7	383.5	385.0	388.4	372.5	305.8	251.7	192.9	45.7	2.0	5.2
55°	257.8	261.9	266.5	280.1	298.7	272.1	223.5	166.7	24.3	2.0	5.0
57.5°	202.6	201.3	199.9	199.0	213.5	224.4	196.5	133.3	10.4	2.0	4.5
60°	185.4	181.3	178.6	179.2	186.5	182.2	155.6	87.0	3.6	2.0	4.3
62.5°	121.5	124.7	130.8	141.3	136.3	117.0	90.4	34.5	1.8	2.0	3.9
65°	47.2	45.7	47.2	50.2	43.4	32.3	20.2	6.1	1.6	1.8	3.4
67.5°	6.4	5.7	4.3	2.7	2.5	2.3	1.8	1.6	1.6	1.8	3.2
70°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.4	1.4	1.6	2.7
72.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.6	2.3
75°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.4	2.0
77.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.1	1.6
80°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.9	1.4
82.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.7	0.7	0.9	1.1
85°	0.2	0.5	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.7	0.9
87.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5	0.7	0.7
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: P1306447

CATALOG NUMBER: P3SQAS02R509027DE010 E3SQCA451MMS

CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
0°	20.9	20.9	20.9	20.9
2.5°	20.7	20.2	20.2	20.2
5°	20.2	19.8	19.8	19.5
7.5°	19.5	19.3	19.3	19.3
10°	19.1	18.9	19.1	19.1
12.5°	18.2	18.4	18.6	18.6
15°	17.3	17.7	18.2	18.4
17.5°	16.4	17.3	17.7	17.9
20°	15.4	16.6	17.3	17.5
22.5°	14.8	15.9	16.8	17.3
25°	13.9	15.4	16.6	17.0
27.5°	12.9	14.8	16.1	16.8
30°	12.3	14.5	16.1	16.8
32.5°	11.6	14.1	15.9	16.6
35°	11.1	13.9	15.9	16.8
37.5°	10.7	13.6	15.9	16.6
40°	10.4	13.4	15.9	16.6
42.5°	10.2	13.4	15.9	16.8
45°	9.8	13.2	15.9	16.8
47.5°	9.5	13.2	15.9	16.8
50°	9.3	12.9	15.9	17.0
52.5°	9.1	12.7	15.9	17.0
55°	8.6	12.5	15.7	16.8
57.5°	8.4	12.3	15.4	16.4
60°	8.0	11.8	15.0	16.1
62.5°	7.5	11.4	14.5	15.4
65°	6.8	10.7	13.9	15.0
67.5°	6.1	9.8	13.2	14.3
70°	5.5	8.9	12.3	13.2
72.5°	4.8	8.0	11.4	12.0
75°	4.1	6.8	10.0	10.9
77.5°	3.4	5.9	8.4	9.1
80°	2.5	4.5	6.8	7.5
82.5°	2.0	3.4	5.0	5.5
85°	1.4	2.3	3.2	3.6
87.5°	0.7	1.1	1.6	1.8
90°	0.0	0.0	0.0	0.0

(END OF REPORT)