

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: P1310910

Luminaire Tested: P3SQAS02R559050DE010 E3SQCA451MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1310910
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-80)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS02R559050DE010 E3SQCA451MW
Description: 3in Adjustable LED luminaire with, R55 optic, 5000K CCT AND, 90CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

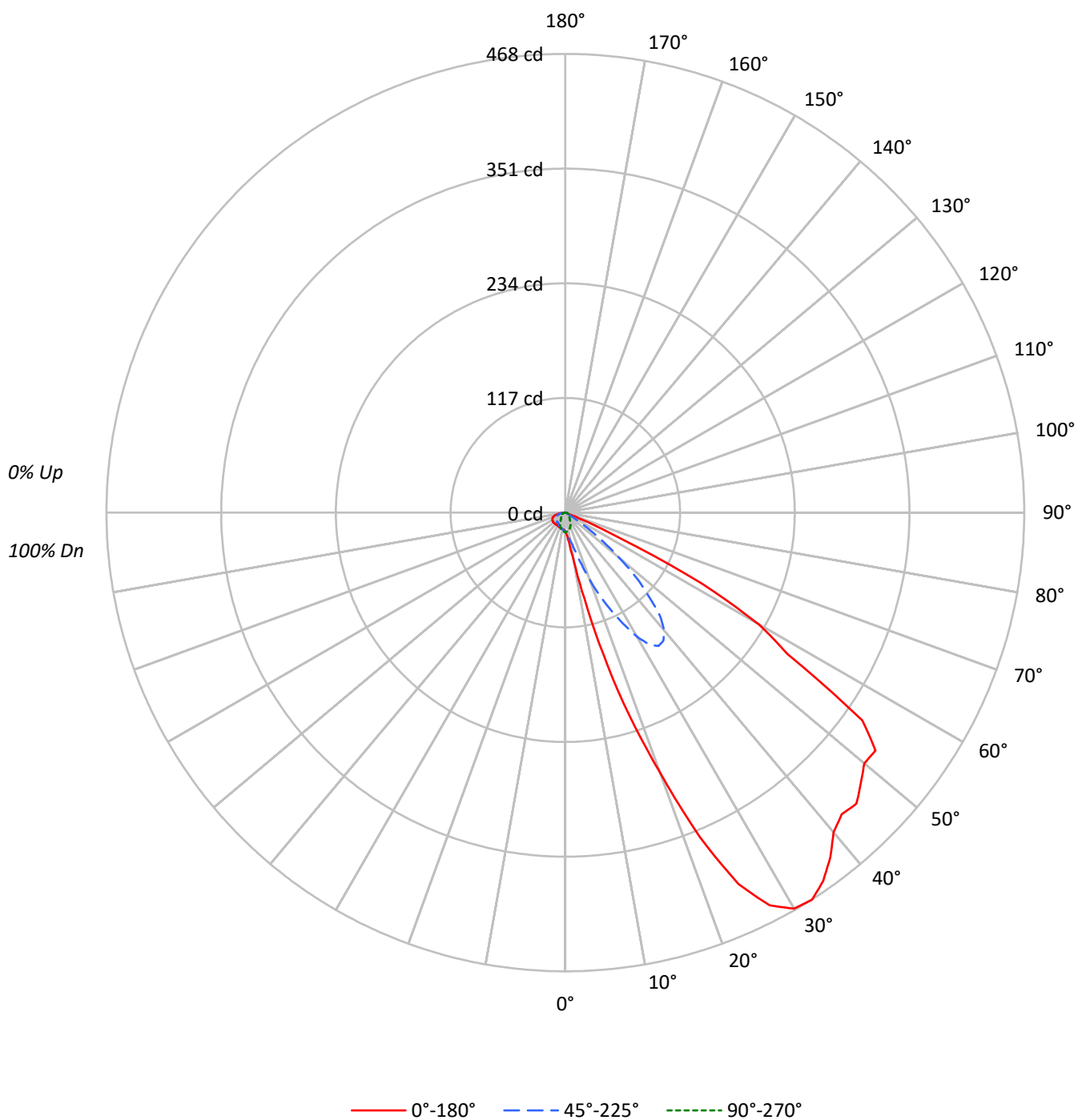
Lumens per Lamp: N/A
Luminaire Lumens: 301.0 lumens
Efficiency: N/A
Efficacy: 83.6 lumens/watt
Spacing Criteria (0/90/45): 3.76 / 0.91 / 1.95
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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: P1310910

CATALOG NUMBER: P3SQAS02R559050DE010 E3SQCA451MW

Luminous Intensity Polar Plot



TEST NUMBER: P1310910

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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	107	104	100	97	99	97	94	95	93	91	92	90	88	86		
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73		
3	91	81	73	67	89	80	72	67	77	71	65	74	69	64	72	67	63	61		
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51		
5	76	63	54	47	74	62	53	47	60	52	47	58	51	46	56	50	46	43		
6	69	56	47	40	68	55	46	40	53	46	40	51	45	39	50	44	39	37		
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	38	34	32		
8	59	45	36	30	57	44	36	30	43	35	30	41	35	29	40	34	29	27		
9	54	40	32	26	53	40	32	26	39	31	26	38	31	26	36	30	26	24		
10	50	37	28	23	49	36	28	23	35	28	23	34	27	23	33	27	23	21		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	3341	3341	3341	3341	3341
5°	4270	3907	3354	3129	3043
10°	8692	4984	3253	2973	2973
15°	26691	7631	3031	2888	2995
20°	51610	13361	2731	2822	2969
25°	79450	20770	2375	2736	2983
30°	92771	29034	1949	2705	3063
35°	96397	34901	1619	2691	3196
40°	95661	35207	1484	2810	3462
45°	102271	29154	1437	3044	3751
50°	106610	19237	1420	3269	4207
55°	111006	8377	1441	3603	4624
60°	78430	1929	1481	3927	5236
65°	25592	652	1426	4238	5868
70°	806	655	1460	4532	6697
75°	732	732	1264	4791	7453
80°	496	793	1289	4761	7934
85°	593	988	1581	4742	7904

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 112795 cd/sqm

TEST NUMBER: P1310910

CATALOG NUMBER: P3SQAS02R559050DE010 E3SQCA451MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.1	0.7
10°-20°	12.8	4.2
20°-30°	42.8	14.2
30°-40°	70.4	23.4
40°-50°	78.5	26.1
50°-60°	66.1	21.9
60°-70°	22.4	7.4
70°-80°	4.4	1.5
80°-90°	1.6	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°	57.7	19.2
0°-40°	128.0	42.5
0°-60°	272.6	90.6
0°-90°	301.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	301.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	19	19	19	19	19	
5°	25	23	19	18	18	3
15°	150	43	17	16	17	47
25°	418	109	12	14	16	188
35°	458	166	8	13	15	285
45°	420	120	6	12	15	321
55°	370	28	5	12	15	301
65°	63	2	4	10	14	85
75°	1	1	2	7	11	1
85°	0	0	1	2	4	0
90°	0	0	0	0	0	

TEST NUMBER: P1310910

CATALOG NUMBER: P3SQAS02R559050DE010 E3SQCA451MW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4
2.5°	21.3	21.3	21.3	21.3	21.3	21.3	21.0	20.2	19.7	18.9	18.6
5°	24.7	24.7	24.7	24.5	24.5	23.9	22.6	20.7	19.4	18.4	18.1
7.5°	31.9	31.6	31.1	30.9	30.1	29.8	25.0	21.3	19.1	17.8	17.6
10°	49.7	49.2	48.4	45.5	42.8	41.0	28.5	21.5	18.6	17.3	17.0
12.5°	89.6	88.6	84.6	78.5	71.0	67.3	34.0	21.8	17.8	16.8	16.8
15°	149.7	148.4	141.0	132.4	118.9	111.4	42.8	21.5	17.0	16.0	16.2
17.5°	216.2	212.5	204.8	193.6	175.3	166.5	55.8	21.0	16.0	15.4	16.0
20°	281.6	280.6	267.8	252.7	230.0	218.3	72.9	20.2	14.9	14.6	15.4
22.5°	358.2	353.7	340.2	323.9	292.8	277.4	91.2	19.1	13.8	13.8	14.9
25°	418.1	412.8	402.1	383.2	353.7	337.2	109.3	17.8	12.5	13.0	14.4
27.5°	451.6	445.5	437.5	421.3	398.4	383.8	127.4	16.2	11.2	12.2	13.8
30°	466.5	464.9	459.0	447.1	426.1	413.0	146.0	14.4	9.8	11.4	13.6
32.5°	468.1	468.9	466.5	458.8	442.8	431.6	159.8	12.8	8.8	10.9	13.0
35°	458.5	461.4	463.0	459.8	449.5	440.4	166.0	10.9	7.7	10.4	12.8
37.5°	443.6	448.9	454.2	455.0	448.7	442.8	164.4	9.3	7.2	10.1	12.8
40°	425.5	430.3	441.2	448.1	446.0	441.7	156.6	7.7	6.6	9.6	12.5
42.5°	417.3	418.3	430.0	441.7	441.2	437.8	143.1	6.1	6.1	9.6	12.5
45°	419.9	415.2	422.9	436.4	435.6	431.1	119.7	4.8	5.9	9.3	12.5
47.5°	408.8	402.1	415.2	431.1	428.2	421.5	98.9	3.5	5.6	9.0	12.2
50°	397.9	396.8	406.9	414.9	410.9	407.2	71.8	2.7	5.3	8.8	12.2
52.5°	398.7	396.8	397.9	397.6	389.6	385.6	49.2	2.1	5.1	8.5	12.2
55°	369.7	363.8	358.2	359.8	360.4	357.7	27.9	1.9	4.8	8.5	12.0
57.5°	268.6	267.0	273.1	290.4	304.0	305.6	13.6	1.9	4.5	8.2	11.7
60°	227.7	226.6	226.9	231.9	239.1	234.6	5.6	1.9	4.3	8.0	11.4
62.5°	156.9	167.3	171.5	183.2	178.5	172.1	2.1	2.1	4.0	7.4	11.2
65°	62.8	62.5	68.3	73.9	72.3	67.6	1.6	1.9	3.5	6.9	10.4
67.5°	14.6	13.3	11.4	9.8	8.2	6.6	1.6	1.9	3.2	6.4	9.8
70°	1.6	1.6	1.6	1.6	1.6	1.3	1.3	1.9	2.9	5.9	9.0
72.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.6	2.4	5.1	8.2
75°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.3	1.9	4.3	7.2
77.5°	0.8	0.8	0.8	1.1	0.8	1.1	1.1	1.3	1.6	3.5	6.1
80°	0.5	0.5	0.8	0.8	0.8	0.8	0.8	1.1	1.3	2.9	4.8
82.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.8	0.8	1.1	2.1	3.5
85°	0.3	0.3	0.3	0.3	0.3	0.5	0.5	0.8	0.8	1.6	2.4
87.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.5	0.8	0.8	1.1
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: P1310910

CATALOG NUMBER: P3SQAS02R559050DE010 E3SQCA451MW

CANDELA DISTRIBUTION (continued):

	157.5°	180°
0°	19.4	19.4
2.5°	18.4	18.4
5°	17.8	17.6
7.5°	17.3	17.3
10°	17.0	17.0
12.5°	16.8	17.0
15°	16.8	16.8
17.5°	16.2	16.5
20°	16.0	16.2
22.5°	15.7	16.0
25°	15.4	15.7
27.5°	15.2	15.4
30°	14.9	15.4
32.5°	14.6	15.2
35°	14.6	15.2
37.5°	14.6	15.4
40°	14.6	15.4
42.5°	14.6	15.4
45°	14.6	15.4
47.5°	14.6	15.4
50°	14.6	15.7
52.5°	14.6	15.7
55°	14.6	15.4
57.5°	14.4	15.4
60°	14.4	15.2
62.5°	14.1	14.9
65°	13.6	14.4
67.5°	13.0	14.1
70°	12.2	13.3
72.5°	11.4	12.2
75°	10.4	11.2
77.5°	9.0	9.6
80°	7.2	8.0
82.5°	5.6	6.1
85°	3.7	4.0
87.5°	1.6	1.9
90°	0.0	0.0

(END OF REPORT)