

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: P1310898

Luminaire Tested: P3SQAS02R509050DE010 E3SQCA301MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1310898
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-65)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS02R509050DE010 E3SQCA301MW
Description: 3in Adjustable LED luminaire with, R50 optic, 5000K CCT AND, 90CRI , E3SQCA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

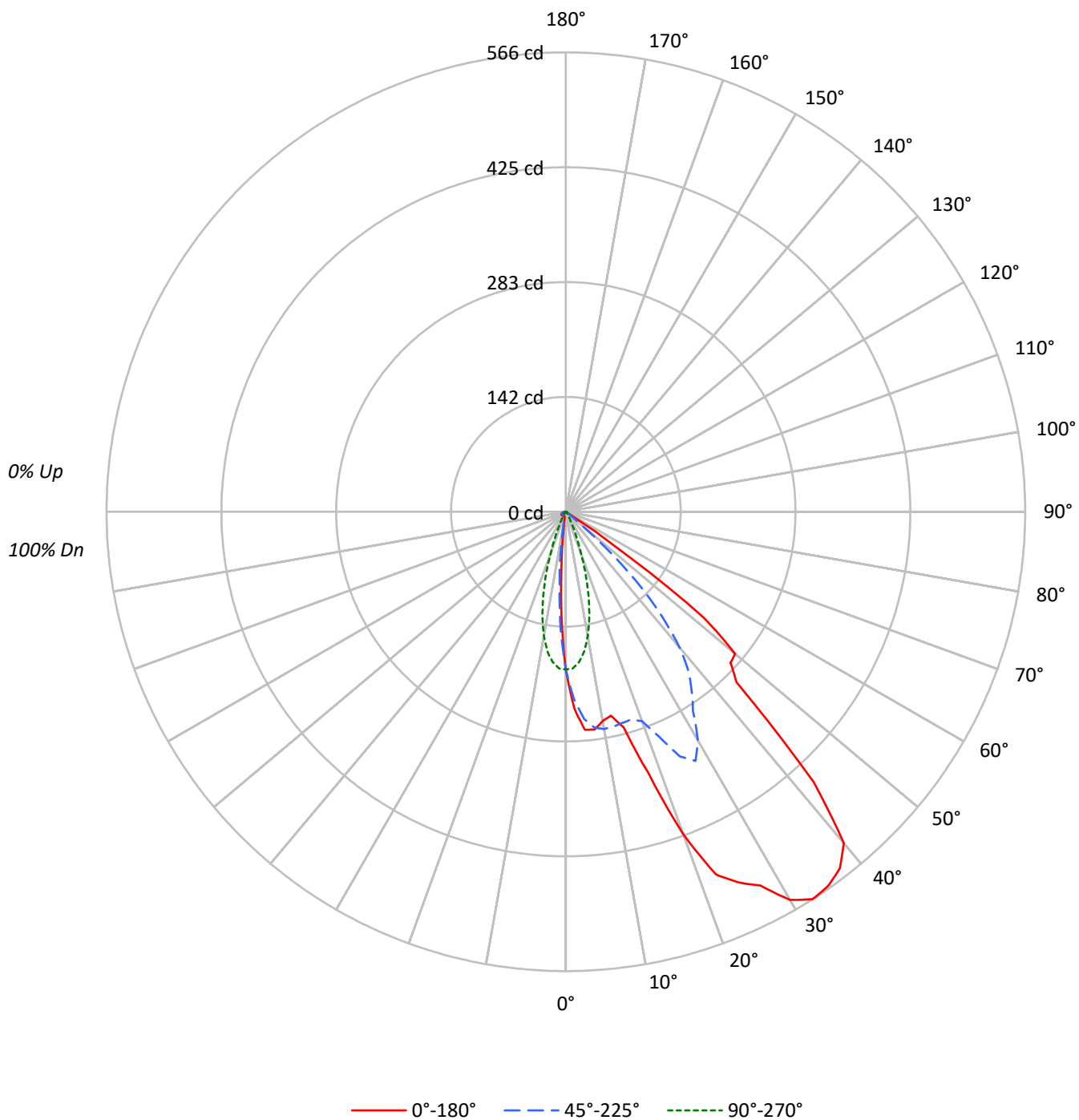
Lumens per Lamp: N/A
Luminaire Lumens: 302.0 lumens
Efficiency: N/A
Efficacy: 83.9 lumens/watt
Spacing Criteria (0/90/45): 1.8 / 0.54 / 1.2
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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

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Luminous Intensity Polar Plot



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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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	112	109	106	103	110	107	104	101	102	100	98	99	97	95	95	94	93	91		
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81		
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73		
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65		
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58		
6	79	68	61	56	78	68	61	55	66	60	55	64	59	55	63	58	54	52		
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47		
8	69	58	50	45	68	57	50	45	56	50	45	55	49	45	54	49	45	43		
9	65	53	46	41	64	53	46	41	52	46	41	51	45	41	50	45	41	39		
10	61	50	42	38	60	49	42	38	48	42	38	47	42	37	46	41	37	36		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	33446	33446	33446	33446	33446
5°	46626	44240	32138	15456	10027
10°	45766	47532	27159	3253	1399
15°	49085	48033	19203	1141	1088
20°	77507	50309	10135	971	1026
25°	95773	63184	4048	912	1007
30°	109814	64790	1631	895	1054
35°	118389	56871	736	946	1177
40°	119829	48966	540	1079	1326
45°	72435	31736	511	1169	1486
50°	72984	5493	563	1366	1715
55°	21559	330	631	1531	1922
60°	379	379	654	1653	2101
65°	326	326	652	1752	2282
70°	403	403	655	1863	2568
75°	333	333	732	1930	2662
80°	298	496	793	1884	2876
85°	593	988	988	2174	2569

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°

Vertical Angle: 45°

Luminance: 82713 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	15.7	5.2
10°-20°	39.0	12.9
20°-30°	73.0	24.2
30°-40°	87.3	28.9
40°-50°	62.6	20.7
50°-60°	19.3	6.4
60°-70°	2.5	0.8
70°-80°	1.8	0.6
80°-90°	0.7	0.2
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°	127.7	42.3
0°-40°	215.0	71.2
0°-60°	296.9	98.3
0°-90°	302.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	302.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	194	194	194	194	194	
5°	270	256	186	89	58	25
15°	275	269	108	6	6	88
25°	504	332	21	5	5	232
35°	563	270	4	4	6	349
45°	297	130	2	5	6	273
55°	72	1	2	5	6	92
65°	1	1	2	4	6	1
75°	0	0	1	3	4	0
85°	0	0	0	1	1	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	194.2	194.2	194.2	194.2	194.2	194.2	194.2	194.2	194.2	194.2	194.2
2.5°	242.8	243.4	244.2	242.0	240.7	239.6	237.8	237.2	232.7	230.9	229.0
5°	269.7	269.2	269.7	268.9	268.4	266.8	265.2	262.5	259.6	255.9	251.6
7.5°	270.5	270.0	271.0	271.0	272.1	272.1	272.1	272.4	270.8	268.1	264.4
10°	261.7	261.7	262.8	262.2	264.1	264.9	266.8	270.0	271.6	271.8	270.8
12.5°	257.2	257.2	257.5	256.4	256.9	257.7	259.9	263.6	267.3	271.0	273.2
15°	275.3	275.8	272.1	266.8	262.8	258.5	257.2	259.6	263.6	269.4	274.2
17.5°	336.7	337.5	333.5	320.8	308.5	291.0	275.3	267.6	263.3	268.1	274.5
20°	422.9	420.0	413.1	399.5	381.7	354.5	330.1	305.3	281.7	274.5	276.6
22.5°	483.8	482.7	477.2	462.0	446.6	421.3	390.2	355.6	321.3	299.5	288.0
25°	504.0	503.2	498.2	489.1	480.6	461.5	433.5	398.7	362.8	332.5	303.7
27.5°	519.2	518.1	510.1	500.0	491.3	471.8	446.3	420.0	387.0	346.0	301.9
30°	552.2	549.2	538.1	520.0	503.2	476.4	448.2	415.4	370.8	325.8	282.7
32.5°	566.0	564.4	554.8	540.2	521.8	486.7	443.9	389.1	330.3	291.5	260.1
35°	563.1	560.7	550.8	534.1	511.7	478.0	420.8	345.5	297.6	270.5	235.1
37.5°	554.3	550.8	539.1	519.4	492.3	448.2	373.4	310.1	279.3	248.7	201.1
40°	533.0	527.4	513.9	493.4	466.3	408.3	330.3	288.8	260.1	217.8	163.0
42.5°	451.6	448.7	455.3	451.9	428.0	359.6	299.8	269.4	229.8	176.1	118.1
45°	297.4	302.4	314.4	334.9	339.6	309.3	274.8	237.5	189.1	130.3	68.1
47.5°	275.3	274.2	277.1	281.1	281.9	269.2	237.8	196.3	140.4	74.5	18.9
50°	272.4	270.8	268.4	263.6	253.5	228.7	193.1	143.1	81.1	20.5	1.3
52.5°	215.2	213.6	213.6	206.7	193.6	169.7	133.3	78.7	22.6	1.3	1.1
55°	71.8	76.6	75.8	75.5	81.4	75.0	57.5	20.2	1.9	1.1	1.1
57.5°	1.3	1.3	1.3	2.4	3.7	5.3	3.2	1.6	1.1	1.1	1.1
60°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
62.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
65°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.1
67.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
70°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
72.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.8	0.8	0.8
75°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.8
77.5°	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5
80°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5
82.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.5	0.5
85°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	194.2	194.2	194.2	194.2	194.2	194.2	194.2	194.2
2.5°	224.7	221.0	213.8	193.4	170.8	145.0	127.4	125.3
5°	245.0	239.4	227.7	185.9	134.3	89.4	66.5	58.0
7.5°	258.3	250.8	236.4	173.7	97.9	47.1	25.3	20.2
10°	266.2	259.3	241.0	155.3	62.2	18.6	8.5	8.0
12.5°	270.5	263.8	242.6	133.3	35.1	8.5	6.6	6.6
15°	273.4	266.2	240.2	107.7	17.6	6.4	6.1	6.1
17.5°	274.8	266.0	233.3	81.1	9.3	5.9	5.9	5.9
20°	275.5	263.0	220.5	55.3	6.4	5.3	5.6	5.6
22.5°	276.3	255.9	203.7	35.1	5.1	5.1	5.3	5.3
25°	274.8	243.4	180.1	21.3	4.5	4.8	5.1	5.3
27.5°	263.3	224.5	151.3	13.0	4.0	4.5	5.1	5.3
30°	243.6	196.8	118.1	8.2	3.7	4.5	5.1	5.3
32.5°	218.1	165.2	84.3	5.1	3.7	4.5	5.1	5.3
35°	183.8	126.3	54.8	3.5	3.7	4.5	5.3	5.6
37.5°	145.2	88.3	29.5	2.7	3.7	4.5	5.3	5.6
40°	104.5	52.9	10.6	2.4	3.5	4.8	5.6	5.9
42.5°	61.2	19.7	1.9	2.1	3.5	4.8	5.6	5.9
45°	17.6	2.1	1.1	2.1	3.5	4.8	5.9	6.1
47.5°	1.3	0.8	1.1	2.1	3.5	4.8	5.9	6.4
50°	0.8	0.8	0.8	2.1	3.5	5.1	6.1	6.4
52.5°	1.1	1.1	1.1	2.1	3.5	5.1	6.1	6.4
55°	1.1	1.1	1.1	2.1	3.5	5.1	6.1	6.4
57.5°	1.1	1.1	1.1	2.1	3.5	4.8	6.1	6.4
60°	1.1	1.1	1.1	1.9	3.2	4.8	5.9	6.1
62.5°	1.1	1.1	1.1	1.9	3.2	4.5	5.9	5.9
65°	1.1	1.1	1.1	1.6	2.9	4.3	5.3	5.6
67.5°	1.1	1.1	1.1	1.6	2.7	4.0	5.1	5.3
70°	0.8	1.1	1.1	1.3	2.4	3.7	4.8	5.1
72.5°	0.8	0.8	1.1	1.3	2.1	3.2	4.3	4.5
75°	0.8	0.8	0.8	1.1	1.9	2.9	3.7	4.0
77.5°	0.8	0.8	0.8	1.1	1.6	2.4	3.5	3.5
80°	0.5	0.8	0.8	0.8	1.3	1.9	2.7	2.9
82.5°	0.5	0.5	0.5	0.8	1.1	1.6	2.1	2.1
85°	0.5	0.5	0.5	0.5	0.8	1.1	1.3	1.3
87.5°	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)