

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: P1317050

Luminaire Tested: P3SQAS09R709830DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1317050
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-57)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS09R709830DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R70 optic, 3000K CCT AND, 98CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

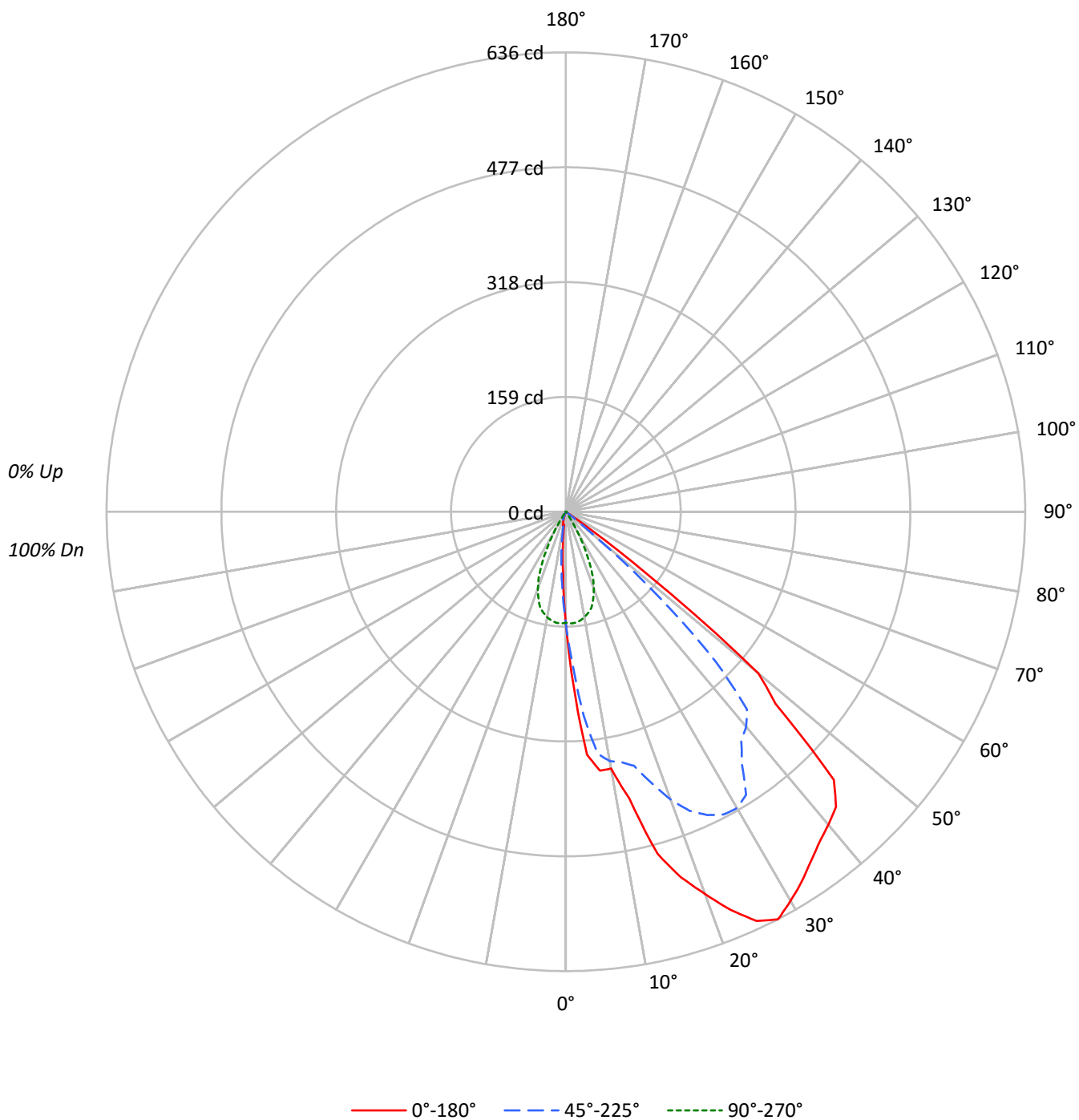
Lumens per Lamp: N/A
Luminaire Lumens: 414.0 lumens
Efficiency: N/A
Efficacy: 37.6 lumens/watt
Spacing Criteria (0/90/45): 2.08 / 0.83 / 1.48
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11
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	102	103	101	99	99	97	96	96	94	93	91		
2	105	99	94	90	103	98	93	89	94	91	87	91	88	85	88	86	84	82		
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73		
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66		
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59		
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	55	53		
7	74	63	56	50	73	62	55	50	61	55	50	59	54	50	58	53	49	48		
8	69	58	51	46	68	57	50	45	56	50	45	55	49	45	54	49	45	43		
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	45	41	39		
10	61	49	42	38	60	49	42	38	48	42	37	47	41	37	46	41	37	36		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	26453	26453	26453	26453	26453
5°	58382	48977	26658	12119	7987
10°	63131	61295	25952	3375	3480
15°	87402	64900	24480	3441	2496
20°	103221	77727	20765	2034	751
25°	118786	88039	14651	342	0
30°	123734	94223	6742	0	0
35°	124297	89291	378	0	0
40°	127136	87343	0	0	0
45°	127771	71582	0	0	0
50°	93294	14870	0	0	0
55°	5255	0	0	0	0
60°	0	207	207	0	0
65°	0	0	245	0	0
70°	0	302	302	0	0
75°	0	399	399	0	0
80°	0	595	595	595	0
85°	0	1186	1186	1186	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 5°

Vertical Angle: 45°

Luminance: 130207 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16.8	4.1
10°-20°	56.1	13.6
20°-30°	100.9	24.4
30°-40°	122.7	29.6
40°-50°	94.7	22.9
50°-60°	22.0	5.3
60°-70°	0.1	0.0
70°-80°	0.3	0.1
80°-90°	0.3	0.1
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°	173.8	42.0
0°-40°	296.5	71.6
0°-60°	413.2	99.8
0°-90°	414.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	414.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	154	154	154	154	154	
5°	338	283	154	70	46	32
15°	490	364	137	19	14	137
25°	625	463	77	2	0	284
35°	591	425	2	0	0	371
45°	525	294	0	0	0	371
55°	18	0	0	0	0	72
65°	0	0	1	0	0	0
75°	0	1	1	0	0	0
85°	0	1	1	1	0	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°	153.6	153.6	153.6	153.6	153.6	153.6	153.6	153.6	153.6	153.6	153.6
2.5°	239.5	239.5	240.7	240.1	234.9	232.5	224.9	220.8	219.7	210.3	206.8
5°	337.7	338.3	335.3	334.8	328.9	324.8	318.4	308.5	298.5	283.3	269.9
7.5°	361.6	361.0	360.5	360.5	359.3	357.0	354.0	351.1	347.0	337.7	327.2
10°	361.0	361.0	360.5	360.5	359.9	360.5	359.9	358.1	356.4	350.5	344.7
12.5°	406.6	403.1	398.4	391.4	379.7	371.0	361.0	358.1	357.0	355.2	351.7
15°	490.2	487.2	477.3	465.0	453.4	433.5	417.7	396.1	379.2	364.0	356.4
17.5°	530.5	532.2	521.1	513.5	502.4	486.7	468.0	445.8	421.8	393.2	370.4
20°	563.2	564.9	555.6	548.0	535.1	518.8	502.4	478.5	455.7	424.1	394.3
22.5°	596.5	597.7	588.9	577.8	563.2	546.2	525.2	500.7	476.1	448.1	416.5
25°	625.1	623.9	609.3	593.6	579.5	561.4	541.0	517.0	493.7	463.3	433.5
27.5°	636.2	635.6	619.3	604.1	587.7	563.2	545.1	524.0	499.5	472.6	442.3
30°	622.2	631.5	621.0	609.9	590.1	565.5	548.0	522.9	500.1	473.8	439.3
32.5°	607.6	619.3	615.8	610.5	587.1	567.9	545.1	521.7	494.8	464.5	411.9
35°	591.2	603.5	604.1	598.2	577.2	557.9	536.9	512.4	482.0	424.7	386.2
37.5°	576.6	588.3	591.8	579.5	563.2	537.5	518.2	492.5	437.6	399.0	379.2
40°	565.5	574.3	579.5	560.3	543.9	518.8	496.6	451.6	401.9	388.5	360.5
42.5°	553.8	562.0	564.4	543.3	518.2	494.3	462.1	405.4	390.8	371.0	295.6
45°	524.6	534.6	528.7	508.3	489.6	464.5	416.5	392.0	376.2	293.9	181.7
47.5°	393.8	404.9	420.6	426.5	432.9	414.8	388.5	379.7	309.1	178.2	56.7
50°	348.2	346.4	346.4	349.4	354.6	360.5	368.1	320.2	185.8	55.5	0.0
52.5°	142.0	149.0	183.4	214.4	250.0	285.7	296.8	196.3	72.4	1.2	0.0
55°	17.5	17.5	24.5	42.1	69.5	112.2	126.2	63.1	5.3	0.0	0.0
57.5°	0.0	0.0	0.0	0.6	4.7	12.9	8.8	2.3	0.6	0.6	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6
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°	153.6	153.6	153.6	153.6	153.6	153.6	153.6	153.6
2.5°	201.0	194.0	184.0	154.8	129.7	107.5	94.6	88.2
5°	257.1	240.1	217.3	154.2	105.2	70.1	52.6	46.2
7.5°	310.8	291.5	253.0	151.9	80.6	40.9	22.8	18.1
10°	334.2	320.2	285.7	148.4	58.4	19.3	19.3	19.9
12.5°	343.5	333.0	305.0	143.1	38.6	18.7	19.9	18.7
15°	349.9	340.0	314.3	137.3	22.2	19.3	15.8	14.0
17.5°	353.5	341.8	317.2	126.2	14.6	16.4	9.9	8.2
20°	364.6	345.9	319.6	113.3	14.0	11.1	5.3	4.1
22.5°	383.2	354.0	320.2	97.6	11.1	6.4	1.8	0.0
25°	400.2	365.1	321.9	77.1	3.5	1.8	0.0	0.0
27.5°	408.4	368.6	321.3	54.3	0.0	0.0	0.0	0.0
30°	398.4	359.9	316.1	33.9	0.0	0.0	0.0	0.0
32.5°	375.1	353.5	299.7	14.6	0.0	0.0	0.0	0.0
35°	367.5	339.4	262.3	1.8	0.0	0.0	0.0	0.0
37.5°	350.5	299.1	192.8	0.0	0.0	0.0	0.0	0.0
40°	301.5	216.2	91.7	0.0	0.0	0.0	0.0	0.0
42.5°	199.2	92.3	5.3	0.0	0.0	0.0	0.0	0.0
45°	70.1	5.8	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.6	0.6	0.0	0.0	0.0	0.0
67.5°	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0
70°	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0
72.5°	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0
75°	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0
77.5°	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0
80°	0.6	0.6	0.6	0.6	0.6	0.6	0.0	0.0
82.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.0	0.0
85°	0.6	0.6	0.6	0.6	0.6	0.6	0.0	0.0
87.5°	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)