

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: P1312161

Luminaire Tested: P3SQAS05R509727DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1312161
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-53)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS05R509727DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R50 optic, 2700K CCT AND, 97CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

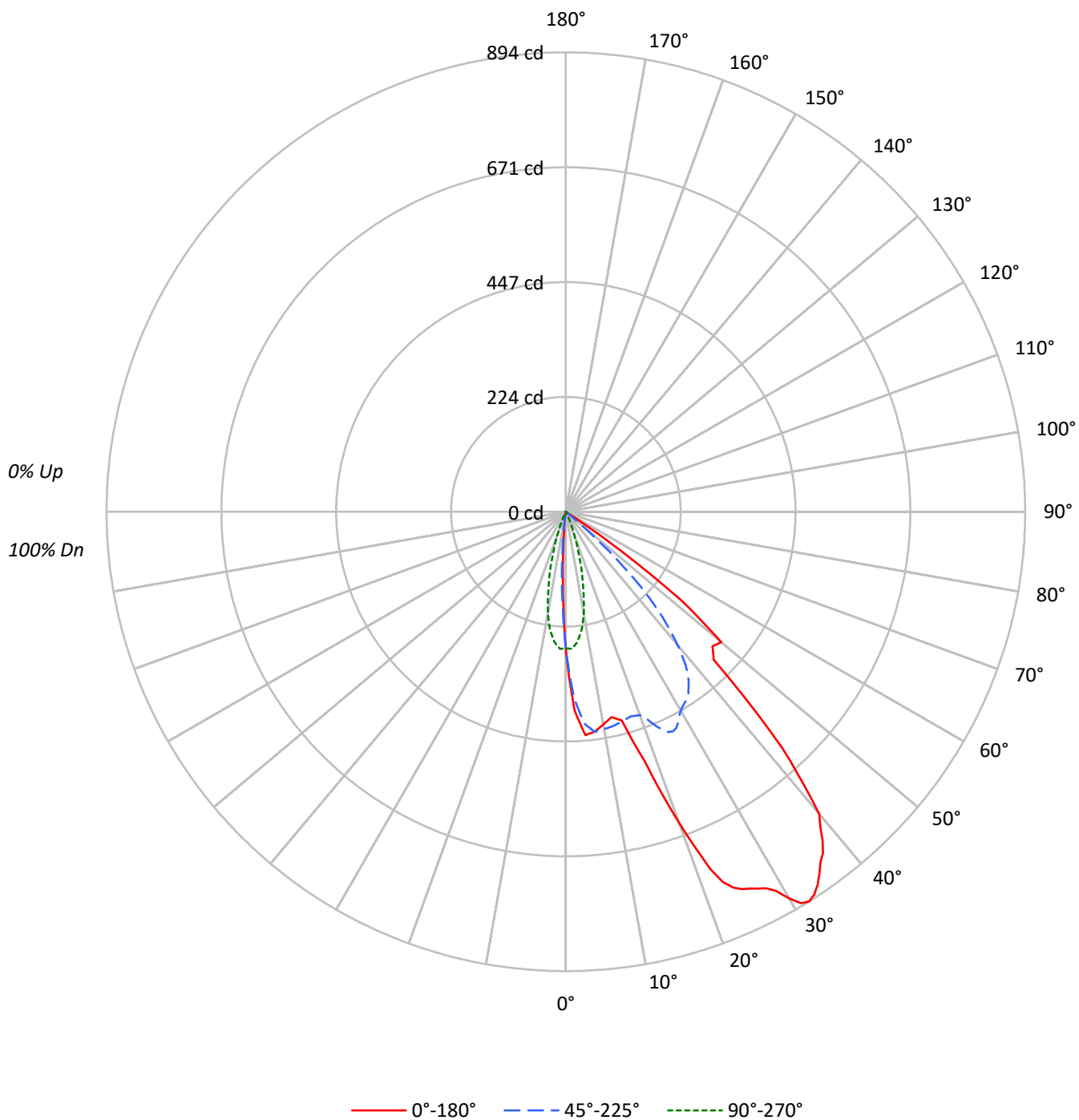
Lumens per Lamp: N/A
Luminaire Lumens: 428.0 lumens
Efficiency: N/A
Efficacy: 59.4 lumens/watt
Spacing Criteria (0/90/45): 1.8 / 0.48 / 1.24
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 7.2
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	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91		
2	105	100	95	91	103	98	93	90	94	91	88	91	88	86	89	86	84	82		
3	98	91	85	80	96	89	84	79	86	82	78	84	80	77	82	78	75	74		
4	92	83	76	71	90	81	75	70	79	74	70	77	72	69	75	71	68	66		
5	86	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61	59		
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54		
7	75	64	56	51	73	63	56	51	61	55	51	60	55	50	59	54	50	48		
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	55	49	46	44		
9	66	54	47	42	64	54	47	42	53	46	42	52	46	42	51	45	42	40		
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	45760	45760	45760	45760	45760
5°	75410	71555	43981	13070	6535
10°	73484	75111	35238	665	874
15°	74921	75367	21110	678	232
20°	118103	77177	8687	0	0
25°	153960	89902	2071	0	0
30°	172814	88913	80	0	0
35°	180853	87546	0	0	0
40°	172527	76079	0	0	0
45°	99080	50198	0	0	0
50°	105726	5734	0	0	0
55°	30116	0	0	0	0
60°	0	0	138	0	0
65°	0	163	163	0	0
70°	0	201	201	0	0
75°	0	266	266	0	0
80°	0	397	793	397	0
85°	0	790	1581	790	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°

Vertical Angle: 45°

Luminance: 109407 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.3	5.2
10°-20°	56.2	13.1
20°-30°	108.0	25.2
30°-40°	125.7	29.4
40°-50°	90.0	21.0
50°-60°	25.0	5.9
60°-70°	0.2	0.0
70°-80°	0.2	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°	186.5	43.6
0°-40°	312.3	73.0
0°-60°	427.3	99.8
0°-90°	428.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	428.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	266	266	266	266	266	
5°	436	414	254	76	38	40
15°	420	423	118	4	1	136
25°	810	473	11	0	0	369
35°	860	416	0	0	0	532
45°	407	206	0	0	0	383
55°	100	0	0	0	0	126
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	1	0	0	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	265.7	265.7	265.7	265.7	265.7	265.7	265.7	265.7	265.7	265.7	265.7
2.5°	386.2	388.3	388.7	383.7	384.5	377.4	377.8	372.8	360.6	318.2	267.0
5°	436.2	434.9	436.2	434.5	436.2	432.0	429.5	427.4	413.9	353.9	254.4
7.5°	431.6	429.9	432.4	433.2	436.2	434.9	435.3	436.6	432.0	373.2	233.0
10°	420.2	419.8	421.1	421.1	424.4	424.8	426.5	429.0	429.5	379.9	201.5
12.5°	409.3	408.1	408.1	407.6	409.3	408.9	413.1	419.0	426.9	375.7	158.3
15°	420.2	419.0	417.3	412.7	409.3	405.5	406.0	409.7	422.7	364.8	118.4
17.5°	508.4	501.7	493.3	478.6	463.0	436.2	420.2	410.2	417.7	348.0	78.9
20°	644.4	641.5	628.0	604.1	578.9	539.5	490.3	450.9	421.1	327.0	47.4
21°	696.0	694.4	680.1	657.8	629.3	581.4	531.1	483.6	427.8	318.2	37.4
22°	748.9	742.6	731.3	706.5	676.7	628.9	572.6	520.1	441.2	306.9	28.5
23°	782.9	779.2	767.0	747.3	718.7	672.1	614.6	557.5	454.2	294.3	21.4
24°	800.6	799.3	789.7	775.8	751.5	704.0	649.4	590.7	465.1	279.6	15.5
25°	810.2	806.0	800.2	790.1	771.6	730.5	681.8	619.6	473.1	264.9	10.9
26°	816.1	813.6	804.3	795.5	777.9	744.3	702.8	637.3	475.2	246.8	7.6
27°	822.8	816.9	808.1	797.6	777.9	748.5	710.7	644.8	472.7	228.4	5.0
28°	830.0	825.8	813.6	800.2	776.6	748.5	707.8	634.7	465.1	210.7	2.9
29°	843.8	838.4	823.2	803.5	777.1	747.7	696.5	613.8	455.1	191.0	1.7
30°	869.0	857.7	839.2	811.5	780.0	746.0	677.6	582.3	447.1	168.8	0.4
31°	888.7	882.4	861.0	826.2	788.4	741.4	655.3	551.2	441.6	149.5	0.0
32°	894.2	889.6	874.0	841.3	802.7	737.6	630.1	521.0	437.4	128.0	0.0
33°	887.9	885.0	868.6	838.8	806.4	732.6	601.2	491.2	432.8	108.7	0.0
34°	876.1	872.4	858.1	827.9	796.8	710.7	573.5	468.5	426.1	90.7	0.0
35°	860.2	857.2	842.6	812.7	779.2	676.7	545.7	453.4	416.4	72.6	0.0
36°	843.0	842.1	823.2	793.9	756.5	644.0	512.2	442.1	406.8	57.5	0.0
37°	831.6	827.4	806.9	777.9	729.6	605.8	485.3	438.3	393.4	44.5	0.0
38°	811.1	811.9	788.4	761.9	702.3	572.6	463.5	435.3	378.2	32.3	0.0
39°	786.7	787.1	762.8	740.1	670.0	537.8	445.4	432.4	359.4	20.6	0.0
40°	767.4	767.0	739.3	714.9	635.2	505.0	435.8	428.2	338.4	11.8	0.0
42.5°	623.8	626.4	629.7	639.8	553.3	447.5	426.5	404.7	278.8	0.0	0.0
45°	406.8	416.4	419.0	449.2	448.8	424.0	404.7	362.7	206.1	0.0	0.0
47.5°	387.1	390.0	395.5	407.2	413.5	401.3	361.9	303.1	112.5	0.0	0.0
50°	394.6	394.2	395.5	395.5	384.1	352.6	296.8	223.8	21.4	0.0	0.0
52.5°	283.4	293.9	305.2	310.2	295.5	262.4	216.6	131.4	0.0	0.0	0.0
55°	100.3	97.0	94.5	103.3	101.2	113.8	94.0	30.6	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.4	1.7	3.8	5.0	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.8
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.8
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):

	112.5°	135°	157.5°	180°
0°	265.7	265.7	265.7	265.7
2.5°	212.8	163.3	132.2	134.3
5°	149.5	75.6	46.6	37.8
7.5°	89.4	23.1	4.6	3.8
10°	42.0	3.8	4.2	5.0
12.5°	12.6	3.4	4.6	4.2
15°	3.4	3.8	2.1	1.3
17.5°	1.3	1.7	0.0	0.0
20°	0.8	0.0	0.0	0.0
21°	0.8	0.0	0.0	0.0
22°	0.4	0.0	0.0	0.0
23°	0.0	0.0	0.0	0.0
24°	0.0	0.0	0.0	0.0
25°	0.0	0.0	0.0	0.0
26°	0.0	0.0	0.0	0.0
27°	0.0	0.0	0.0	0.0
28°	0.0	0.0	0.0	0.0
29°	0.0	0.0	0.0	0.0
30°	0.0	0.0	0.0	0.0
31°	0.0	0.0	0.0	0.0
32°	0.0	0.0	0.0	0.0
33°	0.0	0.0	0.0	0.0
34°	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0
36°	0.0	0.0	0.0	0.0
37°	0.0	0.0	0.0	0.0
38°	0.0	0.0	0.0	0.0
39°	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0
65°	0.4	0.0	0.0	0.0
67.5°	0.4	0.0	0.0	0.0
70°	0.4	0.0	0.0	0.0
72.5°	0.4	0.0	0.0	0.0
75°	0.4	0.0	0.0	0.0
77.5°	0.4	0.0	0.0	0.0
80°	0.4	0.4	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
82.5°	0.4	0.4	0.0	0.0
85°	0.4	0.4	0.0	0.0
87.5°	0.4	0.4	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)