

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: P1316174

Luminaire Tested: P3SQAS09R709827DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1316174
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: P3SQAS09R709827DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R70 optic, 2700K CCT AND, 98CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

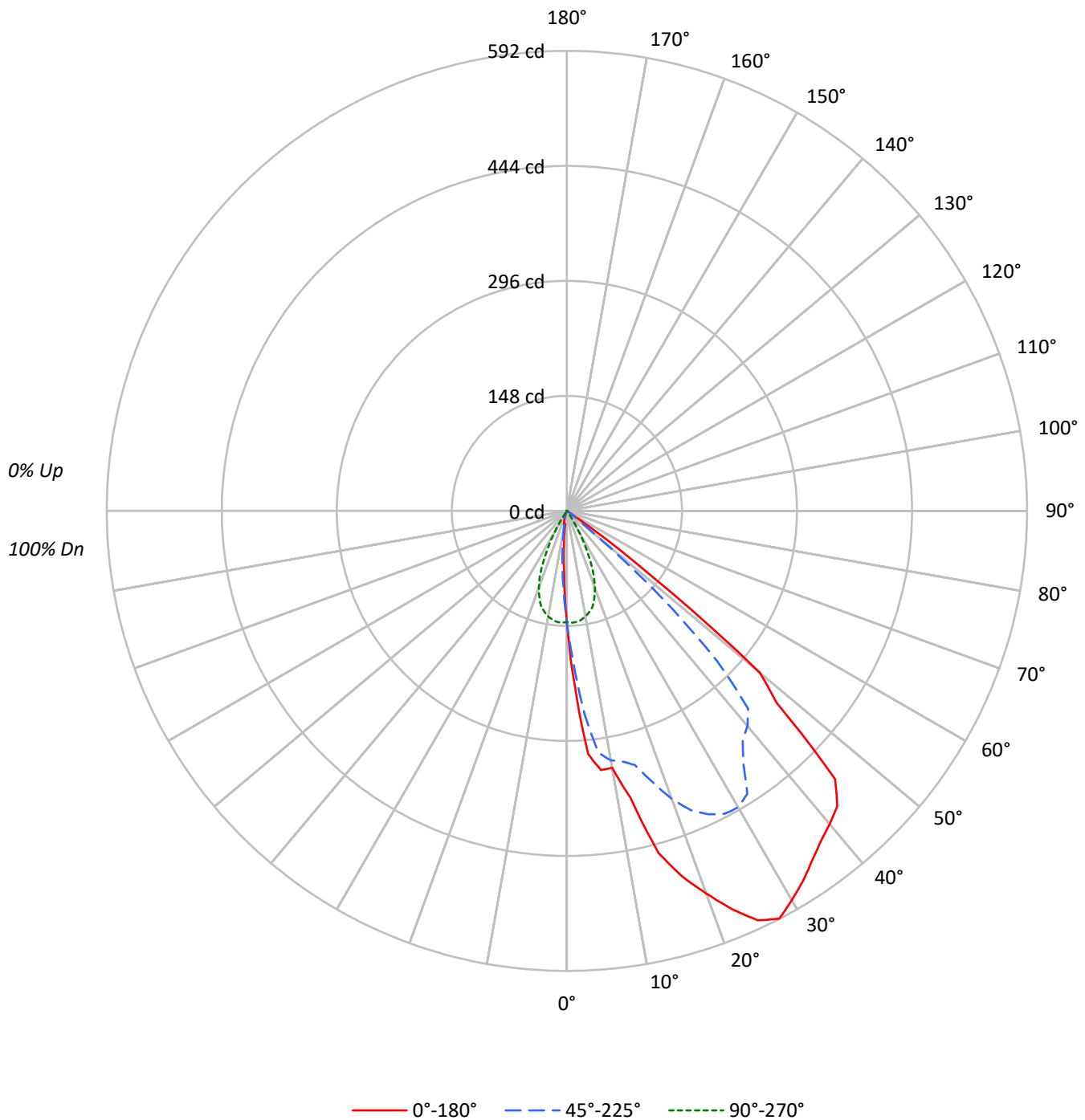
Lumens per Lamp: N/A
Luminaire Lumens: 384.9 lumens
Efficiency: N/A
Efficacy: 35.0 lumens/watt
Spacing Criteria (0/90/45): 2.08 / 0.83 / 1.48
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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°	24611	24611	24611	24611	24611
5°	54284	45554	24791	11272	7417
10°	58725	57011	24133	3130	3235
15°	81268	60354	22769	3192	2318
20°	95981	72284	19317	1888	696
25°	110462	81863	13625	304	0
30°	115064	87620	6264	0	0
35°	115593	83047	336	0	0
40°	118233	81228	0	0	0
45°	118833	66565	0	0	0
50°	86756	13825	0	0	0
55°	4894	0	0	0	0
60°	0	172	172	0	0
65°	0	0	204	0	0
70°	0	252	252	0	0
75°	0	333	333	0	0
80°	0	496	496	496	0
85°	0	988	988	988	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 5°

Vertical Angle: 45°

Luminance: 121073 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	15.6	4.1
10°-20°	52.2	13.6
20°-30°	93.8	24.4
30°-40°	114.1	29.6
40°-50°	88.1	22.9
50°-60°	20.5	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°	161.7	42.0
0°-40°	275.7	71.6
0°-60°	384.3	99.8
0°-90°	384.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	384.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	143	143	143	143	143	
5°	314	264	143	65	43	30
15°	456	338	128	18	13	127
25°	581	431	72	2	0	265
35°	550	395	2	0	0	345
45°	488	273	0	0	0	345
55°	16	0	0	0	0	67
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	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°	142.9	142.9	142.9	142.9	142.9	142.9	142.9	142.9	142.9	142.9	142.9
2.5°	222.8	222.8	223.8	223.3	218.4	216.2	209.2	205.4	204.3	195.6	192.3
5°	314.0	314.6	311.9	311.3	305.9	302.1	296.1	286.9	277.6	263.5	251.0
7.5°	336.3	335.8	335.2	335.2	334.1	332.0	329.2	326.5	322.7	314.0	304.2
10°	335.8	335.8	335.2	335.2	334.7	335.2	334.7	333.0	331.4	326.0	320.5
12.5°	378.1	374.9	370.5	364.0	353.1	345.0	335.8	333.0	332.0	330.3	327.1
15°	455.8	453.1	443.9	432.5	421.6	403.1	388.5	368.4	352.6	338.5	331.4
17.5°	493.3	494.9	484.6	477.6	467.2	452.6	435.2	414.5	392.3	365.6	344.4
20°	523.7	525.4	516.7	509.6	497.7	482.4	467.2	445.0	423.8	394.4	366.7
22.5°	554.7	555.8	547.6	537.3	523.7	508.0	488.4	465.6	442.8	416.7	387.4
25°	581.3	580.2	566.7	552.0	539.0	522.1	503.1	480.8	459.1	430.8	403.1
27.5°	591.6	591.1	575.9	561.8	546.6	523.7	506.9	487.3	464.5	439.5	411.3
30°	578.6	587.3	577.5	567.2	548.7	525.9	509.6	486.3	465.1	440.6	408.6
32.5°	565.0	575.9	572.6	567.7	546.0	528.1	506.9	485.2	460.2	431.9	383.0
35°	549.8	561.2	561.8	556.3	536.8	518.8	499.3	476.5	448.2	395.0	359.1
37.5°	536.2	547.1	550.4	539.0	523.7	499.8	481.9	458.0	406.9	371.1	352.6
40°	525.9	534.1	539.0	521.0	505.8	482.4	461.8	420.0	373.8	361.3	335.2
42.5°	515.0	522.7	524.8	505.3	481.9	459.6	429.7	377.0	363.5	345.0	274.9
45°	487.9	497.1	491.7	472.7	455.3	431.9	387.4	364.6	349.9	273.3	169.0
47.5°	366.2	376.5	391.2	396.6	402.6	385.7	361.3	353.1	287.4	165.7	52.7
50°	323.8	322.2	322.2	324.9	329.8	335.2	342.3	297.7	172.8	51.6	0.0
52.5°	132.0	138.5	170.6	199.4	232.5	265.7	276.0	182.5	67.4	1.1	0.0
55°	16.3	16.3	22.8	39.1	64.7	104.3	117.4	58.7	4.9	0.0	0.0
57.5°	0.0	0.0	0.0	0.5	4.3	12.0	8.1	2.2	0.5	0.5	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5
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	0.5	0.5
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5
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°	142.9	142.9	142.9	142.9	142.9	142.9	142.9	142.9
2.5°	186.9	180.4	171.1	144.0	120.6	100.0	88.0	82.0
5°	239.1	223.3	202.1	143.4	97.8	65.2	48.9	42.9
7.5°	289.0	271.1	235.2	141.3	75.0	38.0	21.2	16.8
10°	310.8	297.7	265.7	138.0	54.3	17.9	17.9	18.5
12.5°	319.5	309.7	283.6	133.1	35.9	17.4	18.5	17.4
15°	325.4	316.2	292.3	127.7	20.6	17.9	14.7	13.0
17.5°	328.7	317.8	295.0	117.4	13.6	15.2	9.2	7.6
20°	339.0	321.6	297.2	105.4	13.0	10.3	4.9	3.8
22.5°	356.4	329.2	297.7	90.7	10.3	6.0	1.6	0.0
25°	372.2	339.6	299.4	71.7	3.3	1.6	0.0	0.0
27.5°	379.8	342.8	298.8	50.5	0.0	0.0	0.0	0.0
30°	370.5	334.7	293.9	31.5	0.0	0.0	0.0	0.0
32.5°	348.8	328.7	278.7	13.6	0.0	0.0	0.0	0.0
35°	341.7	315.7	243.9	1.6	0.0	0.0	0.0	0.0
37.5°	326.0	278.2	179.3	0.0	0.0	0.0	0.0	0.0
40°	280.3	201.0	85.3	0.0	0.0	0.0	0.0	0.0
42.5°	185.3	85.8	4.9	0.0	0.0	0.0	0.0	0.0
45°	65.2	5.4	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	1.1	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°	0.5	0.5	0.5	0.5	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	0.5	0.5	0.0	0.0	0.0	0.0
67.5°	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.0
70°	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0
72.5°	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0
75°	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0
77.5°	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0
80°	0.5	0.5	0.5	0.5	0.5	0.5	0.0	0.0
82.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.0	0.0
85°	0.5	0.5	0.5	0.5	0.5	0.5	0.0	0.0
87.5°	0.5	0.5	0.5	0.5	0.5	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)