

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: P1310154

Luminaire Tested: P3SQAS09R709040DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1310154
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: P3SQAS09R709040DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R70 optic, 4000K CCT AND, 90CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

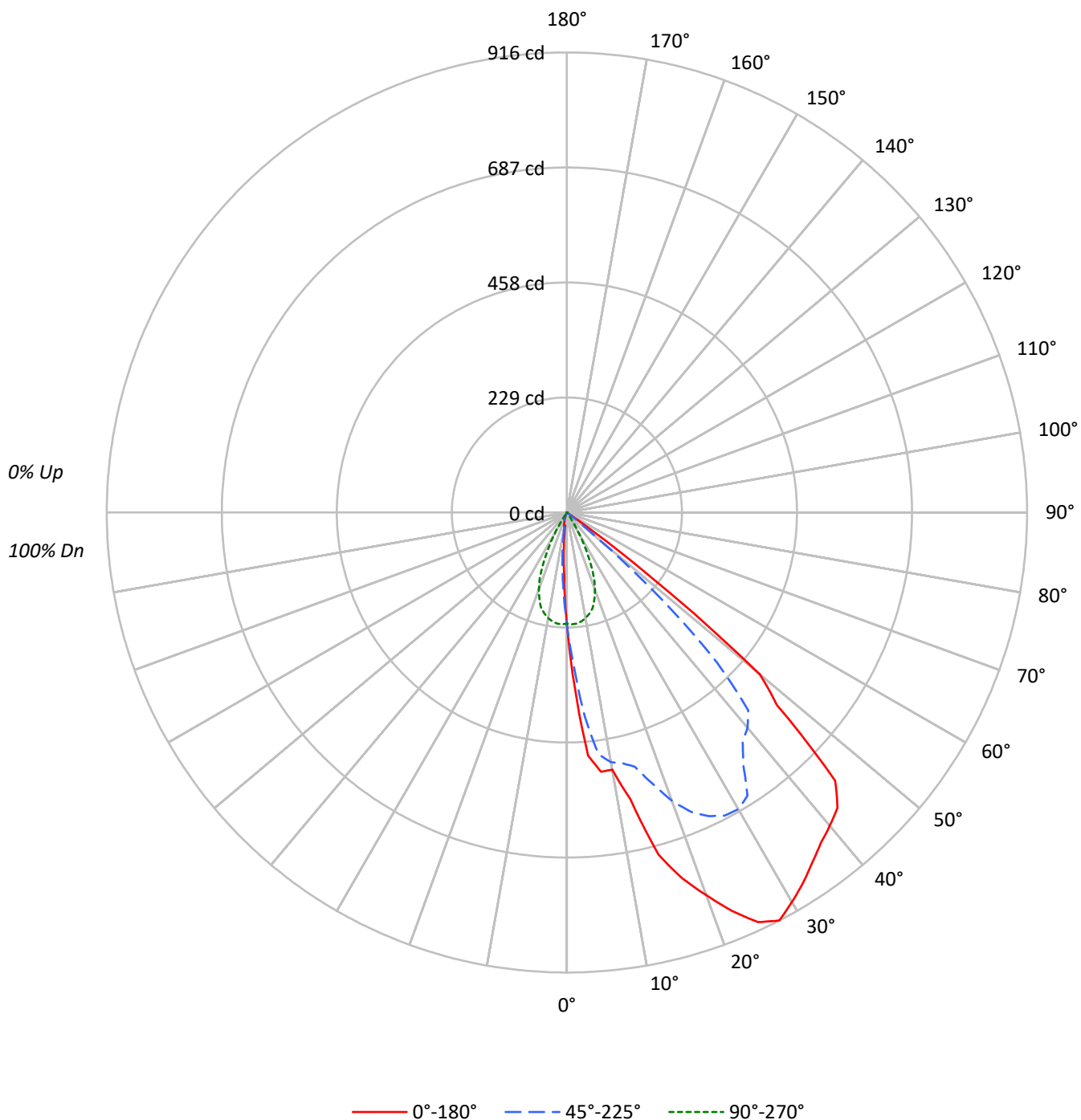
Lumens per Lamp: N/A
Luminaire Lumens: 595.9 lumens
Efficiency: N/A
Efficacy: 53.7 lumens/watt
Spacing Criteria (0/90/45): 2.08 / 0.83 / 1.48
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11.1
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: P1310154

CATALOG NUMBER: P3SQAS09R709040DE010 E3SQCA301MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1310154

CATALOG NUMBER: P3SQAS09R709040DE010 E3SQCA301MMS

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°	38096	38096	38096	38096	38096
5°	84037	70518	38379	17444	11479
10°	90902	88244	37354	4862	5002
15°	125807	93428	35232	4957	3602
20°	148600	111908	29911	2932	1081
25°	171005	126748	21093	475	0
30°	178124	135646	9705	0	0
35°	178940	128544	526	0	0
40°	183027	125742	0	0	0
45°	183961	103026	0	0	0
50°	134314	21408	0	0	0
55°	7567	0	0	0	0
60°	0	276	276	0	0
65°	0	0	326	0	0
70°	0	403	403	0	0
75°	0	532	532	0	0
80°	0	793	793	793	0
85°	0	1581	1581	1581	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 5°

Vertical Angle: 45°

Luminance: 187443 cd/sqm

TEST NUMBER: P1310154

CATALOG NUMBER: P3SQAS09R709040DE010 E3SQCA301MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	24.2	4.1
10°-20°	80.8	13.6
20°-30°	145.2	24.4
30°-40°	176.6	29.6
40°-50°	136.3	22.9
50°-60°	31.7	5.3
60°-70°	0.2	0.0
70°-80°	0.4	0.1
80°-90°	0.4	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°	250.3	42.0
0°-40°	426.8	71.6
0°-60°	594.9	99.8
0°-90°	595.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	595.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	221	221	221	221	221	
5°	486	408	222	101	66	46
15°	706	524	198	28	20	197
25°	900	667	111	2	0	410
35°	851	611	2	0	0	535
45°	755	423	0	0	0	534
55°	25	0	0	0	0	104
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	



TEST NUMBER: P1310154

CATALOG NUMBER: P3SQAS09R709040DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	221.2	221.2	221.2	221.2	221.2	221.2	221.2	221.2	221.2	221.2	221.2
2.5°	344.8	344.8	346.5	345.7	338.1	334.7	323.8	317.9	316.2	302.8	297.7
5°	486.1	487.0	482.8	481.9	473.5	467.6	458.4	444.1	429.8	407.9	388.6
7.5°	520.6	519.8	518.9	518.9	517.2	513.9	509.7	505.5	499.6	486.1	471.0
10°	519.8	519.8	518.9	518.9	518.1	518.9	518.1	515.6	513.0	504.6	496.2
12.5°	585.4	580.3	573.6	563.5	546.7	534.1	519.8	515.6	513.9	511.4	506.3
15°	705.6	701.4	687.1	669.5	652.7	624.1	601.4	570.2	545.8	524.0	513.0
17.5°	763.7	766.2	750.2	739.3	723.3	700.6	673.7	641.7	607.2	566.0	533.2
20°	810.8	813.3	799.8	788.9	770.4	746.9	723.3	688.8	656.0	610.6	567.7
22.5°	858.7	860.4	847.8	831.8	810.8	786.4	756.1	720.8	685.5	645.1	599.7
25°	899.9	898.2	877.2	854.5	834.3	808.3	778.8	744.3	710.7	667.0	624.1
27.5°	915.9	915.1	891.5	869.6	846.1	810.8	784.7	754.4	719.1	680.4	636.7
30°	895.7	909.2	894.0	878.1	849.5	814.1	788.9	752.7	719.9	682.1	632.5
32.5°	874.7	891.5	886.5	878.9	845.3	817.5	784.7	751.1	712.4	668.6	592.9
35°	851.1	868.8	869.6	861.2	831.0	803.2	772.9	737.6	693.9	611.4	555.9
37.5°	830.1	846.9	852.0	834.3	810.8	773.8	746.0	709.0	629.9	574.4	545.8
40°	814.1	826.8	834.3	806.6	783.0	746.9	714.9	650.1	578.6	559.3	518.9
42.5°	797.3	809.1	812.5	782.2	746.0	711.5	665.3	583.7	562.7	534.1	425.6
45°	755.3	769.6	761.2	731.7	704.8	668.6	599.7	564.3	541.6	423.0	261.6
47.5°	566.9	582.8	605.6	614.0	623.2	597.1	559.3	546.7	444.9	256.5	81.6
50°	501.3	498.7	498.7	502.9	510.5	518.9	529.9	460.9	267.5	79.9	0.0
52.5°	204.4	214.5	264.1	308.7	360.0	411.3	427.3	282.6	104.3	1.7	0.0
55°	25.2	25.2	35.3	60.6	100.1	161.5	181.7	90.8	7.6	0.0	0.0
57.5°	0.0	0.0	0.0	0.8	6.7	18.5	12.6	3.4	0.8	0.8	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8
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	0.8	0.8
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	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

TEST NUMBER: P1310154

CATALOG NUMBER: P3SQAS09R709040DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (continued):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	221.2	221.2	221.2	221.2	221.2	221.2	221.2	221.2
2.5°	289.3	279.2	264.9	222.9	186.7	154.8	136.3	127.0
5°	370.1	345.7	312.9	222.0	151.4	100.9	75.7	66.4
7.5°	447.4	419.7	364.2	218.7	116.1	58.9	32.8	26.1
10°	481.1	460.9	411.3	213.6	84.1	27.8	27.8	28.6
12.5°	494.5	479.4	439.0	206.1	55.5	26.9	28.6	26.9
15°	503.8	489.5	452.5	197.6	32.0	27.8	22.7	20.2
17.5°	508.8	492.0	456.7	181.7	21.0	23.5	14.3	11.8
20°	524.8	497.9	460.1	163.2	20.2	16.0	7.6	5.9
22.5°	551.7	509.7	460.9	140.5	16.0	9.3	2.5	0.0
25°	576.1	525.7	463.4	111.0	5.0	2.5	0.0	0.0
27.5°	587.9	530.7	462.6	78.2	0.0	0.0	0.0	0.0
30°	573.6	518.1	455.0	48.8	0.0	0.0	0.0	0.0
32.5°	540.0	508.8	431.5	21.0	0.0	0.0	0.0	0.0
35°	529.0	488.7	377.6	2.5	0.0	0.0	0.0	0.0
37.5°	504.6	430.6	277.5	0.0	0.0	0.0	0.0	0.0
40°	434.0	311.2	132.0	0.0	0.0	0.0	0.0	0.0
42.5°	286.8	132.9	7.6	0.0	0.0	0.0	0.0	0.0
45°	100.9	8.4	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	1.7	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°	0.8	0.8	0.8	0.8	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	0.8	0.8	0.0	0.0	0.0	0.0
67.5°	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0
70°	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0
72.5°	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0
75°	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0
77.5°	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0
80°	0.8	0.8	0.8	0.8	0.8	0.8	0.0	0.0
82.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.0	0.0
85°	0.8	0.8	0.8	0.8	0.8	0.8	0.0	0.0
87.5°	0.8	0.8	0.8	0.8	0.8	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)