

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: P1314293

Luminaire Tested: P3SQAS09R709735DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1314293
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: P3SQAS09R709735DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R70 optic, 3500K CCT AND, 97CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

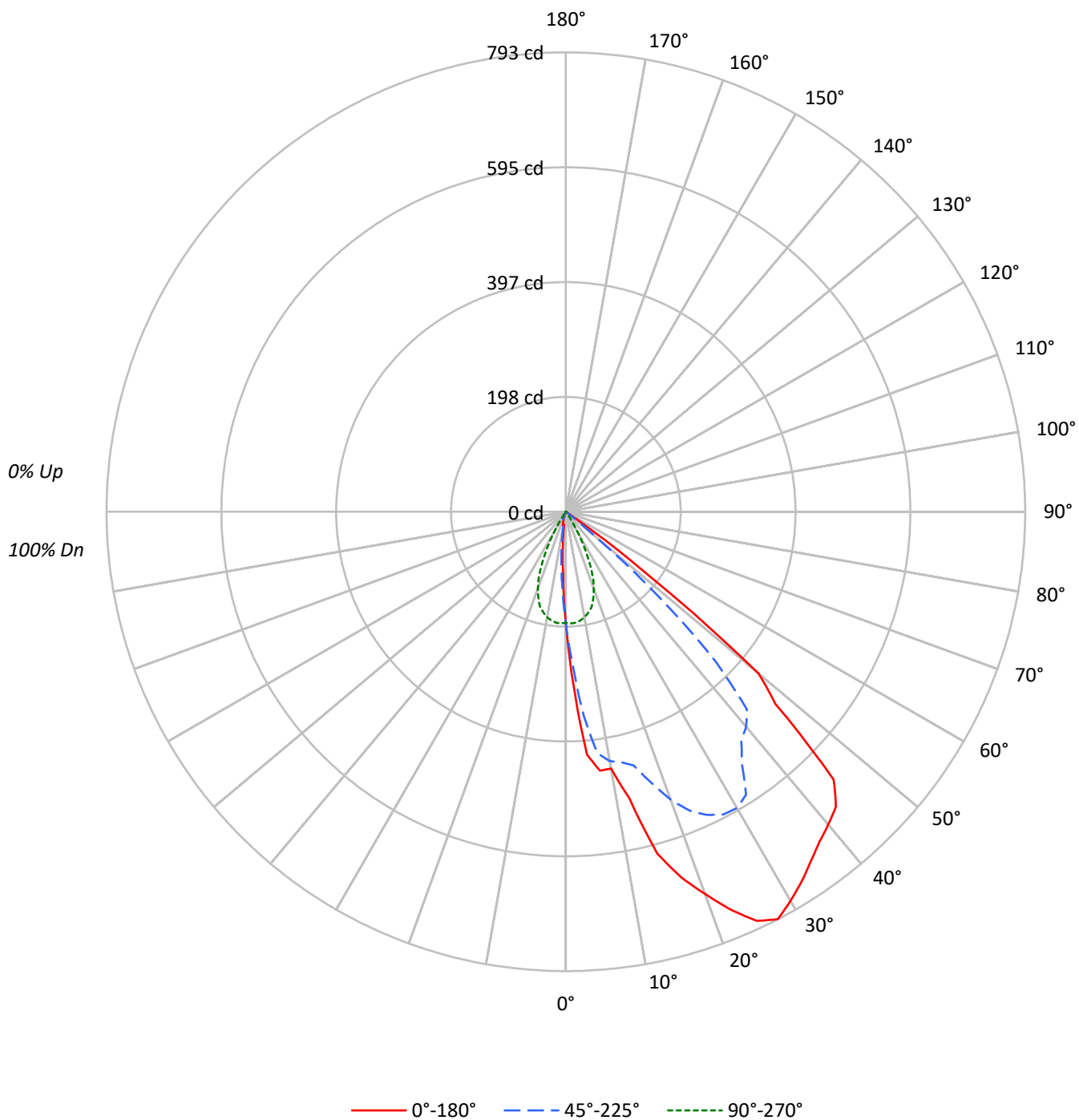
Lumens per Lamp: N/A
Luminaire Lumens: 516.0 lumens
Efficiency: N/A
Efficacy: 46.5 lumens/watt
Spacing Criteria (0/90/45): 2.08 / 0.83 / 1.48
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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: P1314293

CATALOG NUMBER: P3SQAS09R709735DE010 E3SQCA301MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1314293

CATALOG NUMBER: P3SQAS09R709735DE010 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°	32981	32981	32981	32981	32981
5°	72765	61061	33228	15110	9941
10°	78696	76405	32353	4197	4337
15°	108922	80876	30507	4279	3120
20°	128641	96879	25897	2529	935
25°	148050	109721	18262	418	0
30°	154220	117430	8392	0	0
35°	154930	111304	463	0	0
40°	158476	108858	0	0	0
45°	159264	89216	0	0	0
50°	116282	18541	0	0	0
55°	6546	0	0	0	0
60°	0	241	241	0	0
65°	0	0	285	0	0
70°	0	352	352	0	0
75°	0	466	466	0	0
80°	0	694	694	694	0
85°	0	1383	1383	1383	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 5°

Vertical Angle: 45°

Luminance: 162284 cd/sqm

TEST NUMBER: P1314293

CATALOG NUMBER: P3SQAS09R709735DE010 E3SQCA301MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.0	4.1
10°-20°	70.0	13.6
20°-30°	125.7	24.4
30°-40°	152.9	29.6
40°-50°	118.0	22.9
50°-60°	27.5	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°	216.7	42.0
0°-40°	369.5	71.6
0°-60°	515.0	99.8
0°-90°	516.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	516.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	192	192	192	192	192	
5°	421	353	192	87	58	40
15°	611	454	171	24	18	171
25°	779	577	96	2	0	355
35°	737	529	2	0	0	463
45°	654	366	0	0	0	462
55°	22	0	0	0	0	90
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: P1314293

CATALOG NUMBER: P3SQAS09R709735DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	191.5	191.5	191.5	191.5	191.5	191.5	191.5	191.5	191.5	191.5	191.5
2.5°	298.5	298.5	300.0	299.3	292.7	289.8	280.3	275.2	273.8	262.1	257.8
5°	420.9	421.6	418.0	417.2	410.0	404.9	396.8	384.5	372.1	353.2	336.4
7.5°	450.7	450.0	449.3	449.3	447.8	444.9	441.3	437.6	432.5	420.9	407.8
10°	450.0	450.0	449.3	449.3	448.5	449.3	448.5	446.4	444.2	436.9	429.6
12.5°	506.8	502.4	496.6	487.9	473.3	462.4	450.0	446.4	444.9	442.7	438.4
15°	610.9	607.3	594.9	579.6	565.1	540.3	520.6	493.7	472.6	453.6	444.2
17.5°	661.2	663.4	649.5	640.1	626.2	606.6	583.3	555.6	525.7	490.1	461.7
20°	701.9	704.1	692.5	683.0	667.0	646.6	626.2	596.4	568.0	528.6	491.5
22.5°	743.4	744.9	734.0	720.1	701.9	680.8	654.6	624.0	593.4	558.5	519.2
25°	779.1	777.7	759.5	739.8	722.3	699.8	674.3	644.4	615.3	577.4	540.3
27.5°	793.0	792.2	771.8	752.9	732.5	701.9	679.4	653.2	622.6	589.1	551.2
30°	775.5	787.1	774.0	760.2	735.4	704.9	683.0	651.7	623.3	590.5	547.6
32.5°	757.3	771.8	767.5	760.9	731.8	707.8	679.4	650.2	616.8	578.9	513.4
35°	736.9	752.2	752.9	745.6	719.4	695.4	669.2	638.6	600.7	529.4	481.3
37.5°	718.7	733.3	737.6	722.3	701.9	669.9	645.9	613.8	545.4	497.3	472.6
40°	704.9	715.8	722.3	698.3	677.9	646.6	618.9	562.9	501.0	484.2	449.3
42.5°	690.3	700.5	703.4	677.2	645.9	616.0	576.0	505.3	487.1	462.4	368.4
45°	653.9	666.3	659.0	633.5	610.2	578.9	519.2	488.6	468.9	366.3	226.5
47.5°	490.8	504.6	524.3	531.6	539.6	517.0	484.2	473.3	385.2	222.1	70.6
50°	434.0	431.8	431.8	435.4	442.0	449.3	458.7	399.0	231.6	69.2	0.0
52.5°	176.9	185.7	228.6	267.2	311.7	356.1	369.9	244.7	90.3	1.5	0.0
55°	21.8	21.8	30.6	52.4	86.7	139.8	157.3	78.6	6.6	0.0	0.0
57.5°	0.0	0.0	0.0	0.7	5.8	16.0	10.9	2.9	0.7	0.7	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7
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	0.7	0.7
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7
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: P1314293

CATALOG NUMBER: P3SQAS09R709735DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (continued):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	191.5	191.5	191.5	191.5	191.5	191.5	191.5	191.5
2.5°	250.5	241.7	229.4	193.0	161.7	134.0	118.0	110.0
5°	320.4	299.3	270.9	192.2	131.1	87.4	65.5	57.5
7.5°	387.4	363.4	315.3	189.3	100.5	51.0	28.4	22.6
10°	416.5	399.0	356.1	185.0	72.8	24.0	24.0	24.8
12.5°	428.2	415.1	380.1	178.4	48.1	23.3	24.8	23.3
15°	436.2	423.8	391.7	171.1	27.7	24.0	19.7	17.5
17.5°	440.5	426.0	395.4	157.3	18.2	20.4	12.4	10.2
20°	454.4	431.1	398.3	141.3	17.5	13.8	6.6	5.1
22.5°	477.7	441.3	399.0	121.6	13.8	8.0	2.2	0.0
25°	498.8	455.1	401.2	96.1	4.4	2.2	0.0	0.0
27.5°	509.0	459.5	400.5	67.7	0.0	0.0	0.0	0.0
30°	496.6	448.5	393.9	42.2	0.0	0.0	0.0	0.0
32.5°	467.5	440.5	373.5	18.2	0.0	0.0	0.0	0.0
35°	458.0	423.1	326.9	2.2	0.0	0.0	0.0	0.0
37.5°	436.9	372.8	240.3	0.0	0.0	0.0	0.0	0.0
40°	375.7	269.4	114.3	0.0	0.0	0.0	0.0	0.0
42.5°	248.3	115.0	6.6	0.0	0.0	0.0	0.0	0.0
45°	87.4	7.3	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	1.5	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°	0.7	0.7	0.7	0.7	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	0.7	0.7	0.0	0.0	0.0	0.0
67.5°	0.7	0.7	0.7	0.7	0.0	0.0	0.0	0.0
70°	0.7	0.7	0.7	0.7	0.7	0.0	0.0	0.0
72.5°	0.7	0.7	0.7	0.7	0.7	0.0	0.0	0.0
75°	0.7	0.7	0.7	0.7	0.7	0.0	0.0	0.0
77.5°	0.7	0.7	0.7	0.7	0.7	0.0	0.0	0.0
80°	0.7	0.7	0.7	0.7	0.7	0.7	0.0	0.0
82.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.0	0.0
85°	0.7	0.7	0.7	0.7	0.7	0.7	0.0	0.0
87.5°	0.7	0.7	0.7	0.7	0.7	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)