

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: P1312348

Luminaire Tested: P3SQAS09R709727DE010 E3SQCA301MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1312348
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: P3SQAS09R709727DE010 E3SQCA301MB
Description: 3in Adjustable LED luminaire with, R70 optic, 2700K CCT AND, 97CRI , E3SQCA301MB TRIM
Light Source: -
Ballast/Driver: -

Summary

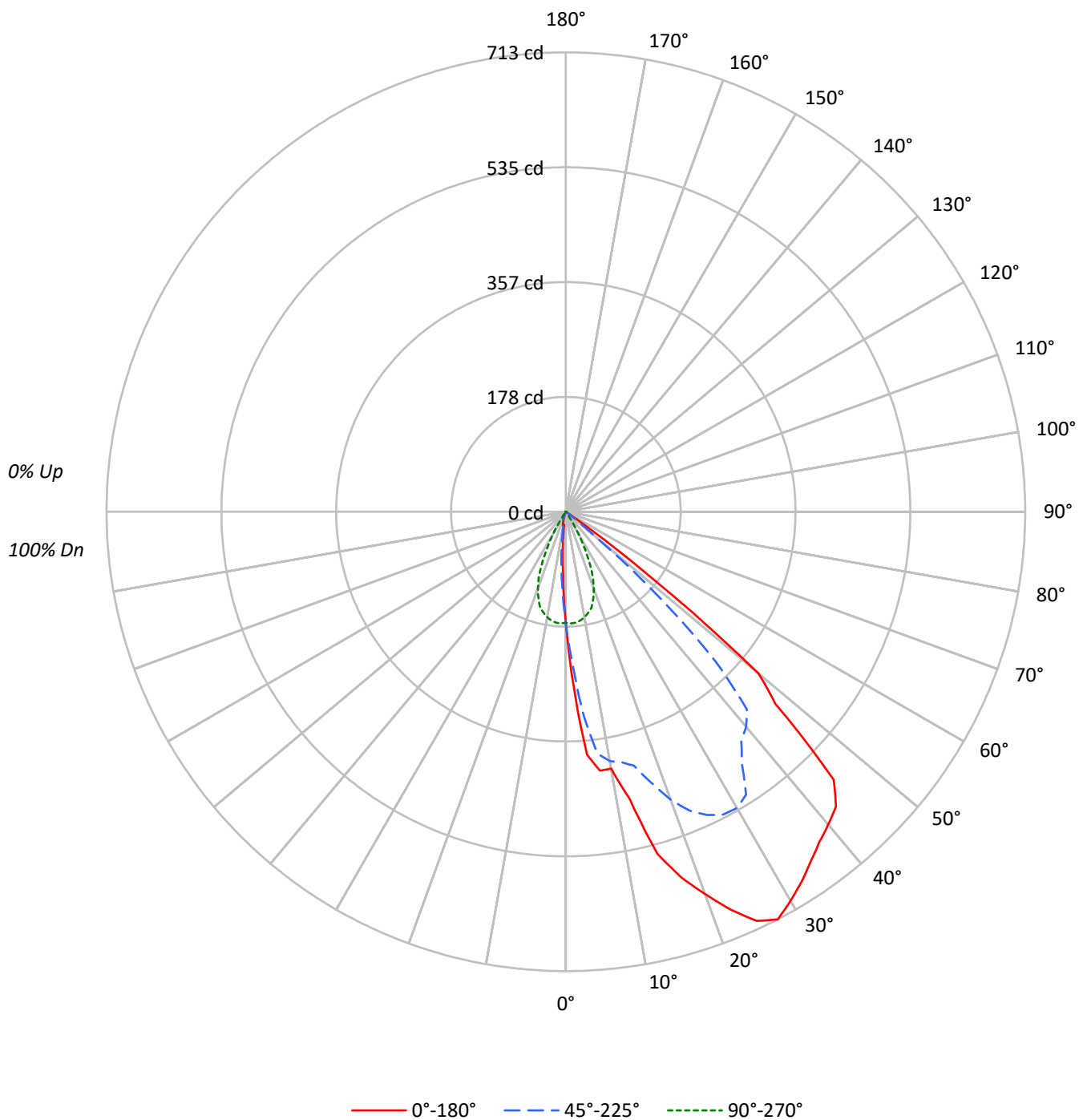
Lumens per Lamp: N/A
Luminaire Lumens: 464.1 lumens
Efficiency: N/A
Efficacy: 41.8 lumens/watt
Spacing Criteria (0/90/45): 2.08 / 0.83 / 1.48
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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: P1312348

CATALOG NUMBER: P3SQAS09R709727DE010 E3SQCA301MB

Luminous Intensity Polar Plot



TEST NUMBER: P1312348

CATALOG NUMBER: P3SQAS09R709727DE010 E3SQCA301MB

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
RC	80				70				50				30				10			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
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	90	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°	29657	29657	29657	29657	29657
5°	65435	54907	29891	13588	8938
10°	70774	68710	29082	3777	3900
15°	97957	72728	27440	3851	2799
20°	115683	87129	23276	2273	843
25°	133133	98662	16418	380	0
30°	138669	105598	7557	0	0
35°	139308	100077	420	0	0
40°	142491	97887	0	0	0
45°	143213	80229	0	0	0
50°	104547	16665	0	0	0
55°	5885	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: 145917 cd/sqm

TEST NUMBER: P1312348

CATALOG NUMBER: P3SQAS09R709727DE010 E3SQCA301MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	18.8	4.1
10°-20°	62.9	13.6
20°-30°	113.1	24.4
30°-40°	137.5	29.6
40°-50°	106.1	22.9
50°-60°	24.7	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°	194.8	42.0
0°-40°	332.3	71.6
0°-60°	463.1	99.8
0°-90°	464.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	464.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	172	172	172	172	172	
5°	378	318	173	79	52	36
15°	549	408	154	22	16	154
25°	701	519	86	2	0	319
35°	663	476	2	0	0	416
45°	588	329	0	0	0	416
55°	20	0	0	0	0	81
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: P1312348

CATALOG NUMBER: P3SQAS09R709727DE010 E3SQCA301MB

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	172.2	172.2	172.2	172.2	172.2	172.2	172.2	172.2	172.2	172.2	172.2
2.5°	268.5	268.5	269.8	269.1	263.2	260.6	252.1	247.5	246.2	235.7	231.8
5°	378.5	379.1	375.8	375.2	368.6	364.1	356.9	345.7	334.6	317.6	302.5
7.5°	405.3	404.7	404.0	404.0	402.7	400.1	396.8	393.5	388.9	378.5	366.7
10°	404.7	404.7	404.0	404.0	403.3	404.0	403.3	401.4	399.4	392.9	386.3
12.5°	455.7	451.8	446.6	438.7	425.6	415.8	404.7	401.4	400.1	398.1	394.2
15°	549.4	546.1	535.0	521.2	508.1	485.8	468.2	443.9	425.0	407.9	399.4
17.5°	594.5	596.5	584.1	575.5	563.1	545.4	524.5	499.6	472.7	440.7	415.1
20°	631.2	633.2	622.7	614.2	599.8	581.4	563.1	536.3	510.7	475.4	442.0
22.5°	668.5	669.8	660.0	647.6	631.2	612.2	588.6	561.1	533.6	502.2	466.9
25°	700.6	699.3	682.9	665.3	649.5	629.2	606.3	579.5	553.3	519.2	485.8
27.5°	713.1	712.4	694.1	677.0	658.7	631.2	610.9	587.3	559.8	529.7	495.7
30°	697.3	707.8	696.0	683.6	661.3	633.8	614.2	586.0	560.5	531.0	492.4
32.5°	681.0	694.1	690.1	684.2	658.1	636.4	610.9	584.7	554.6	520.5	461.6
35°	662.6	676.4	677.0	670.5	646.9	625.3	601.7	574.2	540.2	476.0	432.8
37.5°	646.3	659.4	663.3	649.5	631.2	602.4	580.8	552.0	490.4	447.2	425.0
40°	633.8	643.6	649.5	627.9	609.6	581.4	556.6	506.1	450.5	435.4	404.0
42.5°	620.7	629.9	632.5	608.9	580.8	553.9	517.9	454.4	438.0	415.8	331.3
45°	588.0	599.1	592.6	569.7	548.7	520.5	466.9	439.4	421.7	329.4	203.6
47.5°	441.3	453.8	471.4	478.0	485.2	464.9	435.4	425.6	346.4	199.7	63.5
50°	390.2	388.3	388.3	391.6	397.5	404.0	412.5	358.8	208.2	62.2	0.0
52.5°	159.1	167.0	205.6	240.3	280.2	320.2	332.6	220.0	81.2	1.3	0.0
55°	19.6	19.6	27.5	47.1	77.9	125.7	141.4	70.7	5.9	0.0	0.0
57.5°	0.0	0.0	0.0	0.7	5.2	14.4	9.8	2.6	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: P1312348

CATALOG NUMBER: P3SQAS09R709727DE010 E3SQCA301MB

CANDELA DISTRIBUTION (continued):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	172.2	172.2	172.2	172.2	172.2	172.2	172.2	172.2
2.5°	225.2	217.4	206.3	173.5	145.4	120.5	106.1	98.9
5°	288.1	269.1	243.6	172.9	117.9	78.6	58.9	51.7
7.5°	348.3	326.7	283.5	170.2	90.4	45.8	25.5	20.3
10°	374.5	358.8	320.2	166.3	65.5	21.6	21.6	22.3
12.5°	385.0	373.2	341.8	160.4	43.2	21.0	22.3	21.0
15°	392.2	381.1	352.3	153.9	24.9	21.6	17.7	15.7
17.5°	396.1	383.0	355.5	141.4	16.4	18.3	11.1	9.2
20°	408.6	387.6	358.2	127.0	15.7	12.4	5.9	4.6
22.5°	429.5	396.8	358.8	109.3	12.4	7.2	2.0	0.0
25°	448.5	409.2	360.8	86.4	3.9	2.0	0.0	0.0
27.5°	457.7	413.2	360.1	60.9	0.0	0.0	0.0	0.0
30°	446.6	403.3	354.2	38.0	0.0	0.0	0.0	0.0
32.5°	420.4	396.1	335.9	16.4	0.0	0.0	0.0	0.0
35°	411.9	380.4	294.0	2.0	0.0	0.0	0.0	0.0
37.5°	392.9	335.2	216.1	0.0	0.0	0.0	0.0	0.0
40°	337.9	242.3	102.8	0.0	0.0	0.0	0.0	0.0
42.5°	223.3	103.5	5.9	0.0	0.0	0.0	0.0	0.0
45°	78.6	6.5	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	1.3	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)