

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: P1314178

Luminaire Tested: P3SQAS09R209735DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1314178
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-48)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS09R209735DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R20 optic, 3500K CCT AND, 97CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

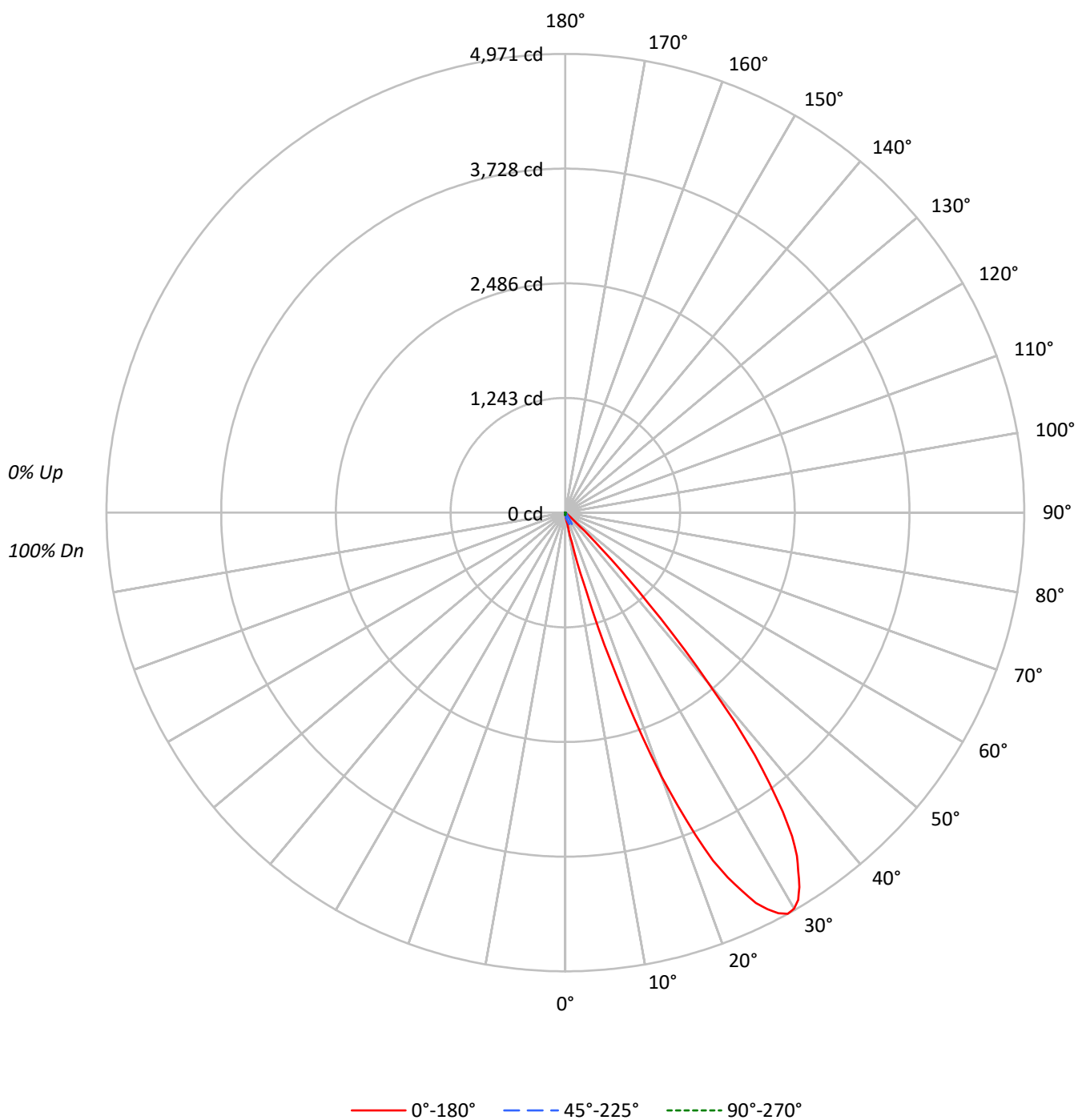
Lumens per Lamp: N/A
Luminaire Lumens: 686.0 lumens
Efficiency: N/A
Efficacy: 61.8 lumens/watt
Spacing Criteria (0/90/45): 2.28 / 0.42 / 1.12
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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: P1314178

CATALOG NUMBER: P3SQAS09R209735DE010 E3SQCA301MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1314178

CATALOG NUMBER: P3SQAS09R209735DE010 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	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92		
2	106	100	96	92	104	98	94	91	95	92	89	92	89	87	89	87	85	83		
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75		
4	93	84	77	72	91	83	77	72	80	75	71	78	74	70	76	73	69	68		
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63	61		
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	57	55		
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	49		
8	71	59	52	47	69	59	52	47	57	51	47	56	51	46	55	50	46	45		
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40		
10	62	50	43	38	60	50	43	38	49	42	38	48	42	38	47	42	38	36		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	4237	4237	4237	4237	4237
5°	9197	6483	3890	1763	1297
10°	22909	11455	2746	350	0
15°	161181	15690	1587	0	0
20°	557048	26392	623	0	0
25°	858635	33711	266	0	0
30°	985558	26051	0	0	0
35°	900080	9903	0	0	0
40°	539615	4609	0	0	0
45°	132594	2168	0	0	0
50°	14629	536	0	0	0
55°	2042	0	210	0	0
60°	0	0	482	0	0
65°	0	0	571	0	0
70°	0	352	1007	0	0
75°	0	466	1331	0	0
80°	0	694	1984	0	0
85°	0	1383	3952	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 1°

Vertical Angle: 45°

Luminance: 141411 cd/sqm

TEST NUMBER: P1314178

CATALOG NUMBER: P3SQAS09R209735DE010 E3SQCA301MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.8	0.4
10°-20°	53.6	7.8
20°-30°	271.0	39.5
30°-40°	293.2	42.7
40°-50°	61.9	9.0
50°-60°	1.9	0.3
60°-70°	0.5	0.1
70°-80°	0.6	0.1
80°-90°	0.6	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°	327.4	47.7
0°-40°	620.6	90.5
0°-60°	684.4	99.8
0°-90°	686.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	686.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	25	25	25	25	25	
5°	53	38	22	10	8	7
15°	904	88	9	0	0	377
25°	4518	177	1	0	0	2042
35°	4281	47	0	0	0	2524
45°	544	9	0	0	0	599
55°	7	0	1	0	0	12
65°	0	0	1	0	0	0
75°	0	1	2	0	0	0
85°	0	1	2	0	0	0
90°	0	0	0	0	0	

TEST NUMBER: P1314178

CATALOG NUMBER: P3SQAS09R209735DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (FULL):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	24.6	24.6	24.6	24.6	24.6	24.6	24.6	24.6	24.6	24.6	24.6
2.5°	33.4	32.7	33.4	32.7	33.4	33.4	33.4	32.7	32.7	32.7	32.7
5°	53.2	53.2	52.5	53.2	53.2	53.2	53.2	52.5	52.5	51.9	51.9
7.5°	83.9	83.9	83.2	83.2	83.9	84.6	81.9	83.2	83.2	83.2	82.6
10°	131.0	133.7	131.0	134.4	131.7	129.6	133.0	129.6	129.6	128.9	126.9
12.5°	330.2	322.7	317.9	306.3	317.9	309.1	311.1	309.1	302.2	293.4	287.9
15°	904.0	904.0	877.4	912.9	886.9	896.5	847.4	848.0	822.8	795.5	780.5
17.5°	1889.8	1906.9	1889.2	1878.2	1855.0	1821.6	1808.0	1773.2	1727.5	1674.2	1668.1
20°	3039.4	2967.8	3001.2	2970.5	2951.4	2910.5	2864.8	2836.1	2795.9	2728.3	2628.7
21°	3401.0	3398.3	3397.6	3396.9	3369.0	3302.1	3260.5	3203.2	3146.5	3077.0	2993.7
22°	3765.3	3778.3	3783.8	3744.2	3686.9	3656.9	3628.2	3549.8	3460.4	3424.2	3325.3
23°	4099.6	4087.4	4051.9	4033.5	3989.1	3980.3	3895.0	3845.2	3757.8	3718.3	3600.9
24°	4327.5	4321.4	4305.0	4277.7	4242.2	4187.7	4136.5	4058.0	3986.4	3921.6	3812.4
25°	4518.5	4524.0	4494.0	4475.6	4437.4	4376.0	4313.2	4227.2	4160.4	4084.6	3958.4
26°	4707.5	4669.3	4645.4	4618.2	4576.5	4506.3	4445.5	4368.5	4287.3	4202.7	4079.2
27°	4824.2	4790.1	4753.9	4727.3	4679.6	4612.7	4547.9	4462.6	4371.9	4286.6	4159.7
28°	4916.3	4878.8	4843.3	4811.2	4756.7	4685.0	4607.2	4520.6	4426.4	4338.4	4208.8
29°	4970.9	4926.5	4888.3	4852.2	4802.4	4724.6	4646.1	4553.3	4462.6	4370.5	4238.1
30°	4955.9	4917.7	4880.8	4844.0	4793.5	4720.5	4642.7	4554.0	4462.6	4371.9	4237.5
31°	4897.2	4850.1	4823.5	4786.7	4743.0	4668.6	4601.8	4504.9	4422.4	4324.1	4189.7
32°	4784.6	4754.6	4719.1	4690.5	4648.2	4569.0	4503.5	4424.4	4326.8	4246.3	4105.1
33°	4631.8	4603.8	4586.1	4552.7	4511.7	4457.1	4378.7	4306.4	4196.5	4114.0	3972.7
34°	4485.8	4450.3	4406.0	4396.4	4360.9	4290.7	4219.7	4146.0	4047.8	3942.7	3800.1
35°	4281.1	4244.3	4203.3	4206.8	4164.5	4082.6	4010.3	3927.7	3834.3	3710.8	3575.7
36°	4007.5	3983.0	3976.8	3960.5	3912.0	3814.5	3745.6	3641.9	3563.4	3412.6	3296.6
37°	3673.9	3682.8	3638.4	3617.3	3560.7	3492.4	3453.6	3320.5	3229.1	3115.8	2958.9
38°	3336.9	3323.9	3271.4	3284.4	3206.6	3135.6	3025.8	2946.6	2844.3	2739.2	2613.7
39°	2915.9	2883.9	2821.1	2823.8	2765.2	2685.3	2578.9	2485.4	2424.0	2323.1	2203.0
40°	2400.2	2386.5	2364.7	2328.5	2251.4	2216.6	2121.8	2020.8	1969.0	1829.1	1770.4
42.5°	1331.8	1313.3	1276.5	1263.5	1222.6	1181.7	1126.4	1058.9	1026.1	984.5	891.7
45°	544.4	580.6	571.7	561.5	530.1	532.2	492.6	497.4	461.2	436.6	419.6
47.5°	120.1	130.3	131.0	126.2	131.0	126.9	124.9	121.4	122.1	124.2	119.4
50°	54.6	53.9	55.3	54.6	53.9	53.2	52.5	50.5	51.9	50.5	49.1
52.5°	21.1	21.8	21.8	20.5	21.1	21.1	21.1	20.5	20.5	20.5	20.5
55°	6.8	6.8	6.8	6.1	6.1	6.8	6.8	6.8	6.8	6.8	6.1
57.5°	0.7	1.4	0.7	1.4	0.7	0.7	0.7	0.7	0.7	1.4	1.4
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	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	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P1314178

CATALOG NUMBER: P3SQAS09R209735DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (continued):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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: P1314178

CATALOG NUMBER: P3SQAS09R209735DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (continued):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	24.6	24.6	24.6	24.6	24.6	24.6	24.6	24.6
2.5°	31.4	28.7	26.6	24.6	20.5	17.1	15.7	15.7
5°	48.4	37.5	28.0	22.5	15.7	10.2	8.2	7.5
7.5°	73.0	50.5	29.3	19.1	10.2	5.5	3.4	2.7
10°	105.7	65.5	30.7	15.7	6.1	2.0	0.0	0.0
12.5°	184.9	78.5	30.7	12.3	2.7	0.0	0.0	0.0
15°	423.7	88.0	29.3	8.9	0.7	0.0	0.0	0.0
17.5°	880.1	110.5	25.9	6.1	0.0	0.0	0.0	0.0
20°	1405.4	144.0	20.5	3.4	0.0	0.0	0.0	0.0
21°	1621.7	155.6	18.4	2.7	0.0	0.0	0.0	0.0
22°	1777.3	166.5	16.4	2.0	0.0	0.0	0.0	0.0
23°	1948.5	173.3	14.3	1.4	0.0	0.0	0.0	0.0
24°	2074.7	177.4	12.3	1.4	0.0	0.0	0.0	0.0
25°	2153.2	177.4	10.9	1.4	0.0	0.0	0.0	0.0
26°	2199.6	173.3	9.6	0.7	0.0	0.0	0.0	0.0
27°	2210.5	166.5	8.2	0.7	0.0	0.0	0.0	0.0
28°	2196.8	157.6	6.8	0.0	0.0	0.0	0.0	0.0
29°	2153.9	144.6	6.1	0.0	0.0	0.0	0.0	0.0
30°	2107.5	131.0	4.8	0.0	0.0	0.0	0.0	0.0
31°	2028.3	112.6	4.1	0.0	0.0	0.0	0.0	0.0
32°	1936.9	93.5	3.4	0.0	0.0	0.0	0.0	0.0
33°	1814.8	73.7	2.7	0.0	0.0	0.0	0.0	0.0
34°	1634.7	58.0	2.7	0.0	0.0	0.0	0.0	0.0
35°	1473.0	47.1	2.0	0.0	0.0	0.0	0.0	0.0
36°	1261.5	37.5	2.0	0.0	0.0	0.0	0.0	0.0
37°	1080.7	31.4	2.0	0.0	0.0	0.0	0.0	0.0
38°	904.7	26.6	1.4	0.0	0.0	0.0	0.0	0.0
39°	734.1	23.2	1.4	0.0	0.0	0.0	0.0	0.0
40°	585.4	20.5	1.4	0.0	0.0	0.0	0.0	0.0
42.5°	315.9	13.6	0.0	0.0	0.0	0.0	0.0	0.0
45°	174.7	8.9	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	77.1	4.8	0.0	0.0	0.0	0.0	0.0	0.0
50°	25.9	2.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	13.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	6.1	0.0	0.0	0.7	0.0	0.0	0.0	0.0
57.5°	1.4	0.0	0.0	0.7	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.7	1.4	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.7	1.4	0.7	0.0	0.0	0.0
65°	0.0	0.0	1.4	1.4	0.7	0.0	0.0	0.0
67.5°	0.0	0.7	1.4	2.0	0.7	0.0	0.0	0.0
70°	0.0	0.7	1.4	2.0	0.7	0.0	0.0	0.0
72.5°	0.0	0.7	1.4	2.0	0.7	0.0	0.0	0.0
75°	0.0	0.7	1.4	2.0	0.7	0.0	0.0	0.0
77.5°	0.0	0.7	1.4	2.0	0.7	0.0	0.0	0.0
80°	0.0	0.7	1.4	2.0	0.7	0.0	0.0	0.0



TEST NUMBER: P1314178

CATALOG NUMBER: P3SQAS09R209735DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (continued):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.0	0.7	1.4	2.0	0.7	0.0	0.0	0.0
85°	0.0	0.7	1.4	2.0	0.7	0.0	0.0	0.0
87.5°	0.0	0.7	1.4	2.0	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)