

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: P1315997

Luminaire Tested: P3SQAS05R509827DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1315997
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-53)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS05R509827DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R50 optic, 2700K CCT AND, 98CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

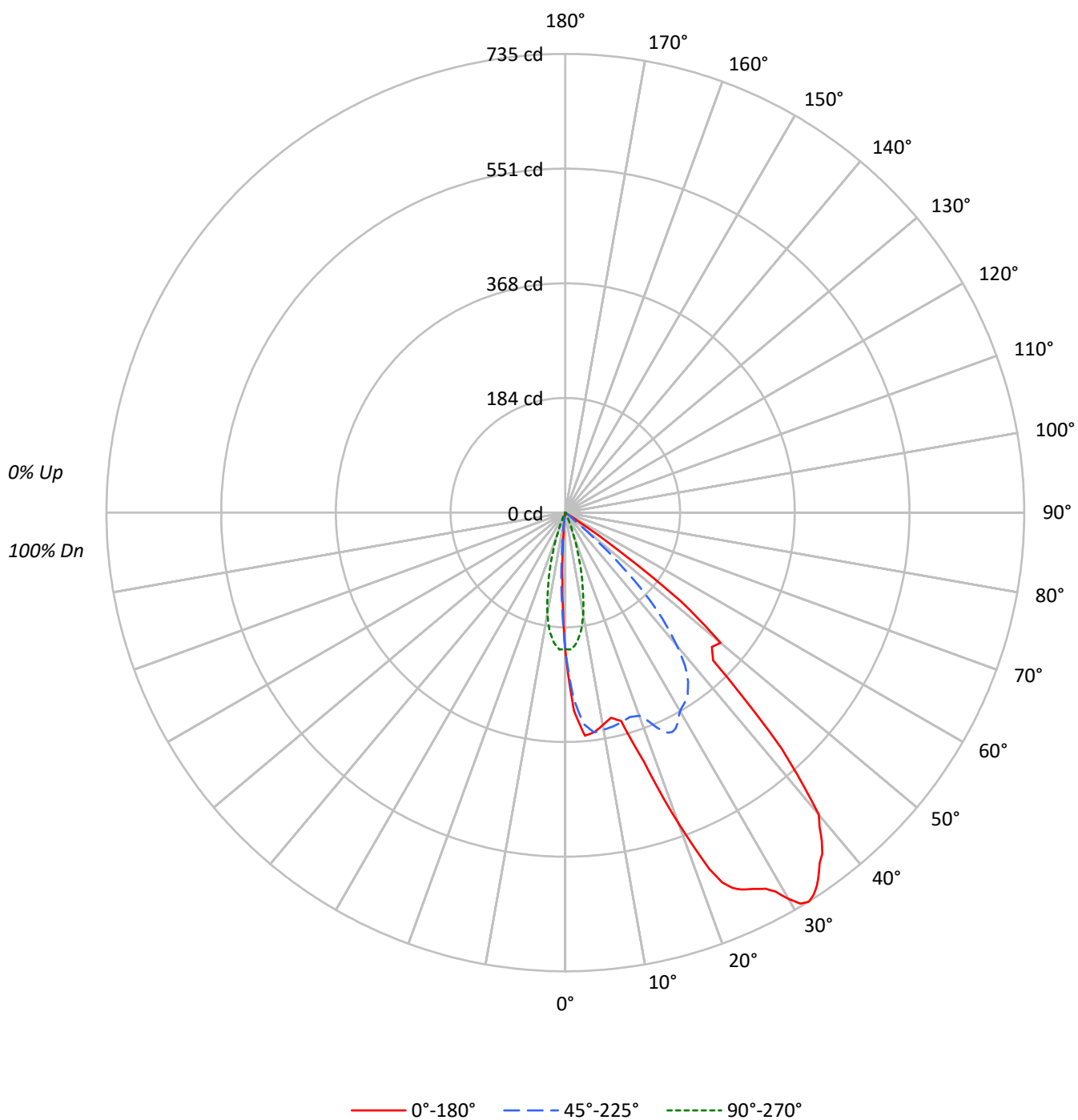
Lumens per Lamp: N/A
Luminaire Lumens: 351.9 lumens
Efficiency: N/A
Efficacy: 48.9 lumens/watt
Spacing Criteria (0/90/45): 1.8 / 0.48 / 1.24
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 7.2
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: P1315997

CATALOG NUMBER: P3SQAS05R509827DE010 E3SQCA301MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1315997

CATALOG NUMBER: P3SQAS05R509827DE010 E3SQCA301MMS

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	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	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91		
2	105	100	95	91	103	98	93	90	94	91	88	91	88	86	89	86	84	82		
3	98	91	85	80	96	89	84	79	86	82	78	84	80	77	82	78	75	74		
4	92	83	76	71	90	82	75	70	79	74	70	77	72	69	75	71	68	66		
5	86	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61	59		
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54		
7	75	64	56	51	73	63	56	51	61	55	51	60	55	50	59	54	50	48		
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	55	49	46	44		
9	66	54	47	42	64	54	47	42	53	46	42	52	46	42	51	45	42	40		
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	37648	37648	37648	37648	37648
5°	62012	58849	36167	10736	5377
10°	60438	61767	28978	542	717
15°	61620	61994	17366	553	178
20°	97136	63468	7148	0	0
25°	126634	73939	1710	0	0
30°	142129	73123	60	0	0
35°	148727	72009	0	0	0
40°	141884	62568	0	0	0
45°	81495	41283	0	0	0
50°	86944	4716	0	0	0
55°	24772	0	0	0	0
60°	0	0	103	0	0
65°	0	122	122	0	0
70°	0	151	151	0	0
75°	0	200	200	0	0
80°	0	298	694	298	0
85°	0	593	1383	593	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°

Vertical Angle: 45°

Luminance: 89971 cd/sqm

TEST NUMBER: P1315997

CATALOG NUMBER: P3SQAS05R509827DE010 E3SQCA301MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	18.4	5.2
10°-20°	46.2	13.1
20°-30°	88.8	25.2
30°-40°	103.4	29.4
40°-50°	74.0	21.0
50°-60°	20.6	5.9
60°-70°	0.1	0.0
70°-80°	0.2	0.1
80°-90°	0.2	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°	153.4	43.6
0°-40°	256.8	73.0
0°-60°	351.4	99.8
0°-90°	351.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	351.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	219	219	219	219	219	
5°	359	340	209	62	31	33
15°	346	348	97	3	1	112
25°	666	389	9	0	0	303
35°	707	342	0	0	0	438
45°	335	170	0	0	0	315
55°	82	0	0	0	0	104
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	1	0	0	0
90°	0	0	0	0	0	

TEST NUMBER: P1315997

CATALOG NUMBER: P3SQAS05R509827DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	218.6	218.6	218.6	218.6	218.6	218.6	218.6	218.6	218.6	218.6	218.6
2.5°	317.6	319.4	319.7	315.6	316.3	310.4	310.7	306.6	296.6	261.7	219.6
5°	358.7	357.7	358.7	357.3	358.7	355.3	353.2	351.5	340.4	291.1	209.2
7.5°	354.9	353.5	355.6	356.3	358.7	357.7	358.0	359.1	355.3	306.9	191.6
10°	345.6	345.3	346.3	346.3	349.1	349.4	350.8	352.9	353.2	312.5	165.7
12.5°	336.6	335.6	335.6	335.2	336.6	336.3	339.7	344.6	351.1	309.0	130.2
15°	345.6	344.6	343.2	339.4	336.6	333.5	333.9	337.0	347.7	300.0	97.4
17.5°	418.1	412.6	405.7	393.6	380.8	358.7	345.6	337.3	343.5	286.2	64.9
20°	530.0	527.6	516.5	496.8	476.1	443.7	403.3	370.8	346.3	269.0	39.0
21°	572.4	571.1	559.3	541.0	517.5	478.2	436.8	397.7	351.8	261.7	30.7
22°	615.9	610.8	601.4	581.1	556.6	517.2	470.9	427.8	362.9	252.4	23.5
23°	643.9	640.8	630.8	614.6	591.1	552.8	505.5	458.5	373.6	242.0	17.6
24°	658.4	657.4	649.4	638.0	618.0	579.0	534.1	485.8	382.5	229.9	12.8
25°	666.4	662.9	658.1	649.8	634.6	600.8	560.7	509.6	389.1	217.9	9.0
26°	671.2	669.1	661.5	654.3	639.8	612.1	578.0	524.1	390.8	203.0	6.2
27°	676.7	671.9	664.6	656.0	639.8	615.6	584.5	530.3	388.8	187.8	4.1
28°	682.6	679.1	669.1	658.1	638.7	615.6	582.1	522.0	382.5	173.3	2.4
29°	694.0	689.5	677.1	660.8	639.1	614.9	572.8	504.8	374.3	157.1	1.4
30°	714.7	705.4	690.2	667.4	641.5	613.5	557.3	478.9	367.7	138.8	0.3
31°	730.9	725.7	708.1	679.5	648.4	609.7	539.0	453.3	363.2	122.9	0.0
32°	735.4	731.6	718.8	691.9	660.1	606.6	518.2	428.5	359.8	105.3	0.0
33°	730.2	727.8	714.3	689.8	663.2	602.5	494.4	404.0	356.0	89.4	0.0
34°	720.6	717.5	705.7	680.9	655.3	584.5	471.6	385.3	350.4	74.6	0.0
35°	707.4	705.0	692.9	668.4	640.8	556.6	448.8	372.9	342.5	59.7	0.0
36°	693.3	692.6	677.1	652.9	622.2	529.6	421.2	363.6	334.6	47.3	0.0
37°	684.0	680.5	663.6	639.8	600.1	498.2	399.1	360.5	323.5	36.6	0.0
38°	667.0	667.7	648.4	626.6	577.6	470.9	381.2	358.0	311.1	26.6	0.0
39°	647.0	647.4	627.3	608.7	551.0	442.3	366.3	355.6	295.5	16.9	0.0
40°	631.1	630.8	608.0	588.0	522.4	415.3	358.4	352.2	278.3	9.7	0.0
42.5°	513.1	515.1	517.9	526.2	455.1	368.0	350.8	332.8	229.3	0.0	0.0
45°	334.6	342.5	344.6	369.4	369.1	348.7	332.8	298.3	169.5	0.0	0.0
47.5°	318.3	320.7	325.2	334.9	340.1	330.1	297.6	249.3	92.5	0.0	0.0
50°	324.5	324.2	325.2	325.2	315.9	290.0	244.1	184.0	17.6	0.0	0.0
52.5°	233.1	241.7	251.0	255.1	243.1	215.8	178.2	108.1	0.0	0.0	0.0
55°	82.5	79.8	77.7	84.9	83.2	93.6	77.3	25.2	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.3	1.4	3.1	4.1	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.7
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.7



TEST NUMBER: P1315997

CATALOG NUMBER: P3SQAS05R509827DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	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: P1315997

CATALOG NUMBER: P3SQAS05R509827DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
0°	218.6	218.6	218.6	218.6
2.5°	175.0	134.3	108.8	110.5
5°	122.9	62.1	38.3	31.1
7.5°	73.5	19.0	3.8	3.1
10°	34.5	3.1	3.5	4.1
12.5°	10.4	2.8	3.8	3.5
15°	2.8	3.1	1.7	1.0
17.5°	1.0	1.4	0.0	0.0
20°	0.7	0.0	0.0	0.0
21°	0.7	0.0	0.0	0.0
22°	0.3	0.0	0.0	0.0
23°	0.0	0.0	0.0	0.0
24°	0.0	0.0	0.0	0.0
25°	0.0	0.0	0.0	0.0
26°	0.0	0.0	0.0	0.0
27°	0.0	0.0	0.0	0.0
28°	0.0	0.0	0.0	0.0
29°	0.0	0.0	0.0	0.0
30°	0.0	0.0	0.0	0.0
31°	0.0	0.0	0.0	0.0
32°	0.0	0.0	0.0	0.0
33°	0.0	0.0	0.0	0.0
34°	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0
36°	0.0	0.0	0.0	0.0
37°	0.0	0.0	0.0	0.0
38°	0.0	0.0	0.0	0.0
39°	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0
65°	0.3	0.0	0.0	0.0
67.5°	0.3	0.0	0.0	0.0
70°	0.3	0.0	0.0	0.0
72.5°	0.3	0.0	0.0	0.0
75°	0.3	0.0	0.0	0.0
77.5°	0.3	0.0	0.0	0.0
80°	0.3	0.3	0.0	0.0



TEST NUMBER: P1315997

CATALOG NUMBER: P3SQAS05R509827DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
82.5°	0.3	0.3	0.0	0.0
85°	0.3	0.3	0.0	0.0
87.5°	0.3	0.3	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)