

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: P1315077

Luminaire Tested: P3SQAS05R509740DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1315077
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: P3SQAS05R509740DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R50 optic, 4000K CCT AND, 97CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

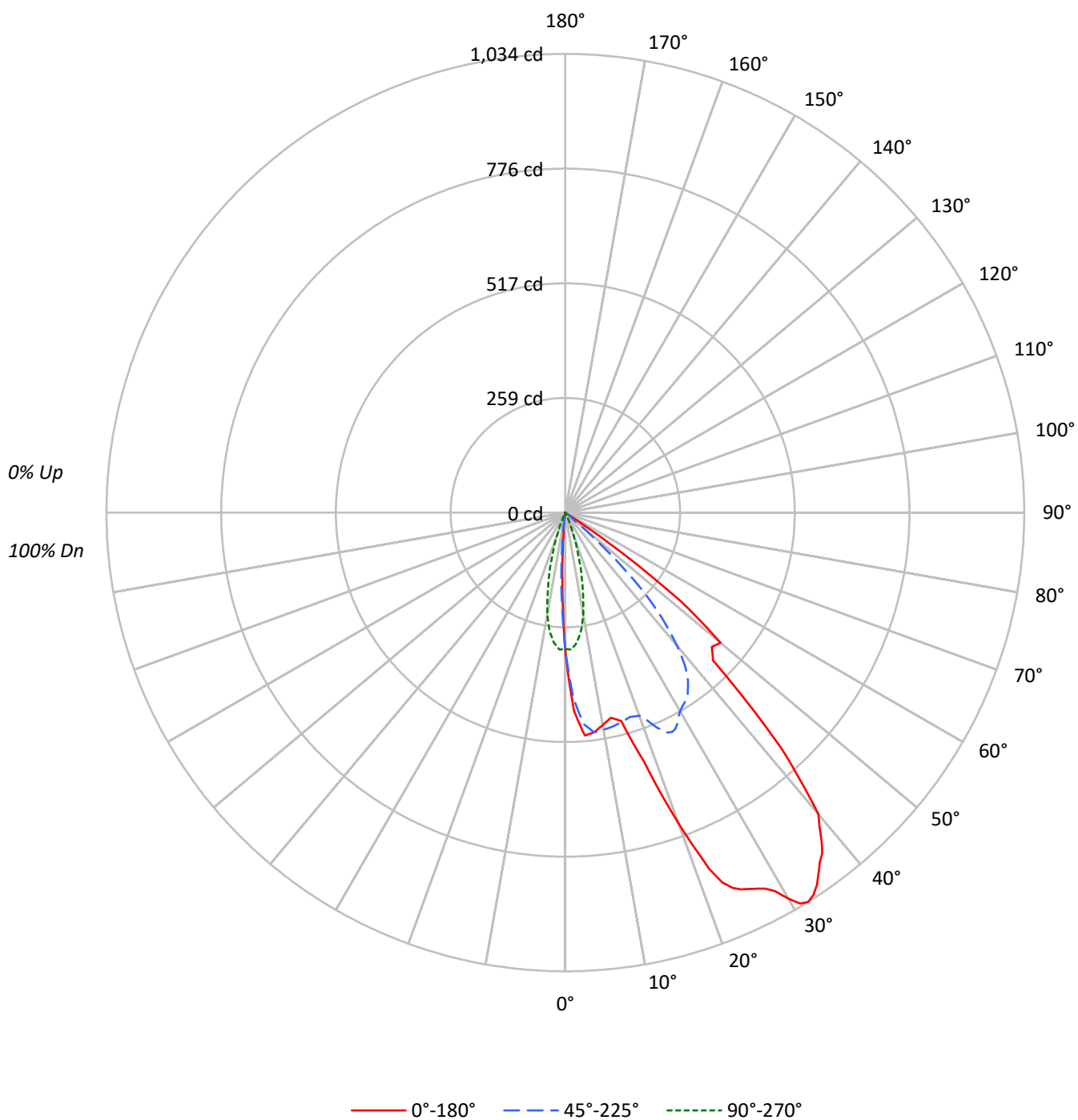
Lumens per Lamp: N/A
Luminaire Lumens: 495.0 lumens
Efficiency: N/A
Efficacy: 68.8 lumens/watt
Spacing Criteria (0/90/45): 1.8 / 0.48 / 1.24
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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: P1315077

CATALOG NUMBER: P3SQAS05R509740DE010 E3SQCA301MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1315077

CATALOG NUMBER: P3SQAS05R509740DE010 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	102	102	100
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	93	93	91
2	105	99	95	91	103	98	93	90	94	91	88	91	88	86	89	86	84	84	84	82
3	98	91	85	80	96	89	84	79	86	82	78	84	80	77	82	78	75	75	75	74
4	92	83	76	71	90	81	75	70	79	74	70	77	72	69	75	71	68	68	68	66
5	86	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61	61	61	59
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	55	55	54
7	75	64	56	51	73	63	56	51	61	55	51	60	55	50	59	54	50	50	50	48
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	55	49	46	46	46	44
9	66	54	47	42	64	54	47	42	53	46	42	52	46	42	51	45	42	42	42	40
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	38	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	52924	52924	52924	52924	52924
5°	87218	82758	50861	15110	7555
10°	84991	86863	40764	769	1014
15°	86653	87170	24409	785	267
20°	136595	89255	10062	0	0
25°	178074	103983	2394	0	0
30°	199860	102833	99	0	0
35°	209152	101254	0	0	0
40°	199528	87972	0	0	0
45°	114595	58065	0	0	0
50°	122284	6645	0	0	0
55°	34830	0	0	0	0
60°	0	0	172	0	0
65°	0	204	204	0	0
70°	0	252	252	0	0
75°	0	333	333	0	0
80°	0	496	992	496	0
85°	0	988	1976	988	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°

Vertical Angle: 45°

Luminance: 126529 cd/sqm

TEST NUMBER: P1315077

CATALOG NUMBER: P3SQAS05R509740DE010 E3SQCA301MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.8	5.2
10°-20°	65.0	13.1
20°-30°	124.9	25.2
30°-40°	145.4	29.4
40°-50°	104.1	21.0
50°-60°	29.0	5.9
60°-70°	0.2	0.0
70°-80°	0.3	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°	215.8	43.6
0°-40°	361.1	73.0
0°-60°	494.2	99.8
0°-90°	495.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	495.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	307	307	307	307	307	
5°	504	479	294	87	44	46
15°	486	489	137	4	2	157
25°	937	547	13	0	0	426
35°	995	482	0	0	0	616
45°	470	238	0	0	0	442
55°	116	0	0	0	0	146
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: P1315077

CATALOG NUMBER: P3SQAS05R509740DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	307.3	307.3	307.3	307.3	307.3	307.3	307.3	307.3	307.3	307.3	307.3
2.5°	446.7	449.1	449.6	443.8	444.7	436.5	437.0	431.1	417.1	368.0	308.8
5°	504.5	503.0	504.5	502.5	504.5	499.6	496.7	494.3	478.7	409.3	294.2
7.5°	499.1	497.2	500.1	501.1	504.5	503.0	503.5	504.9	499.6	431.6	269.5
10°	486.0	485.5	487.0	487.0	490.9	491.4	493.3	496.2	496.7	439.4	233.1
12.5°	473.4	471.9	471.9	471.4	473.4	472.9	477.8	484.6	493.8	434.5	183.0
15°	486.0	484.6	482.6	477.3	473.4	469.0	469.5	473.9	488.9	421.9	136.9
17.5°	588.0	580.2	570.5	553.5	535.5	504.5	486.0	474.4	483.1	402.5	91.3
20°	745.3	741.9	726.3	698.7	669.5	623.9	567.1	521.5	487.0	378.2	54.9
21°	805.0	803.1	786.5	760.8	727.8	672.5	614.2	559.3	494.7	368.0	43.2
22°	866.2	858.9	845.8	817.1	782.7	727.3	662.3	601.6	510.3	354.9	33.0
23°	905.5	901.1	887.1	864.2	831.2	777.3	710.8	644.8	525.3	340.4	24.8
24°	925.9	924.4	913.3	897.2	869.1	814.2	751.1	683.1	538.0	323.4	18.0
25°	937.1	932.2	925.4	913.8	892.4	844.8	788.5	716.6	547.2	306.4	12.6
26°	943.9	940.9	930.3	920.1	899.7	860.8	812.8	737.0	549.6	285.5	8.7
27°	951.6	944.8	934.6	922.5	899.7	865.7	822.0	745.8	546.7	264.1	5.8
28°	959.9	955.0	940.9	925.4	898.2	865.7	818.6	734.1	538.0	243.7	3.4
29°	975.9	969.6	952.1	929.3	898.7	864.7	805.5	709.8	526.3	220.9	1.9
30°	1005.0	991.9	970.6	938.5	902.1	862.8	783.6	673.4	517.1	195.2	0.5
31°	1027.9	1020.6	995.8	955.5	911.8	857.4	757.9	637.5	510.8	172.8	0.0
32°	1034.2	1028.8	1010.9	973.0	928.3	853.1	728.8	602.5	505.9	148.1	0.0
33°	1026.9	1023.5	1004.5	970.1	932.7	847.2	695.3	568.1	500.6	125.8	0.0
34°	1013.3	1008.9	992.4	957.5	921.5	822.0	663.2	541.8	492.8	104.9	0.0
35°	994.8	991.4	974.4	940.0	901.1	782.7	631.2	524.4	481.6	84.0	0.0
36°	974.9	974.0	952.1	918.1	874.9	744.8	592.3	511.3	470.5	66.5	0.0
37°	961.8	957.0	933.2	899.7	843.8	700.6	561.3	506.9	454.9	51.5	0.0
38°	938.0	939.0	911.8	881.2	812.3	662.3	536.0	503.5	437.5	37.4	0.0
39°	909.9	910.4	882.2	856.0	774.9	622.0	515.1	500.1	415.6	23.8	0.0
40°	887.5	887.1	855.0	826.8	734.6	584.1	504.0	495.2	391.3	13.6	0.0
42.5°	721.5	724.4	728.3	739.9	639.9	517.6	493.3	468.0	322.4	0.0	0.0
45°	470.5	481.6	484.6	519.5	519.0	490.4	468.0	419.5	238.4	0.0	0.0
47.5°	447.7	451.1	457.4	471.0	478.2	464.2	418.5	350.5	130.1	0.0	0.0
50°	456.4	455.9	457.4	457.4	444.3	407.8	343.3	258.8	24.8	0.0	0.0
52.5°	327.7	339.9	353.0	358.8	341.8	303.5	250.5	152.0	0.0	0.0	0.0
55°	116.0	112.2	109.2	119.4	117.0	131.6	108.8	35.4	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.5	1.9	4.4	5.8	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	0.5	0.5
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	1.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	1.0



TEST NUMBER: P1315077

CATALOG NUMBER: P3SQAS05R509740DE010 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	0.5	0.5	0.5	1.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	1.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	1.0
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: P1315077

CATALOG NUMBER: P3SQAS05R509740DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
0°	307.3	307.3	307.3	307.3
2.5°	246.2	188.9	152.9	155.4
5°	172.8	87.4	53.9	43.7
7.5°	103.4	26.7	5.3	4.4
10°	48.6	4.4	4.9	5.8
12.5°	14.6	3.9	5.3	4.9
15°	3.9	4.4	2.4	1.5
17.5°	1.5	1.9	0.0	0.0
20°	1.0	0.0	0.0	0.0
21°	1.0	0.0	0.0	0.0
22°	0.5	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°	0.5	0.0	0.0	0.0
67.5°	0.5	0.0	0.0	0.0
70°	0.5	0.0	0.0	0.0
72.5°	0.5	0.0	0.0	0.0
75°	0.5	0.0	0.0	0.0
77.5°	0.5	0.0	0.0	0.0
80°	0.5	0.5	0.0	0.0



TEST NUMBER: P1315077

CATALOG NUMBER: P3SQAS05R509740DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
82.5°	0.5	0.5	0.0	0.0
85°	0.5	0.5	0.0	0.0
87.5°	0.5	0.5	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)