

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: P1309966

Luminaire Tested: P3SQAS05R509040DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1309966
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: P3SQAS05R509040DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R50 optic, 4000K CCT AND, 90CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

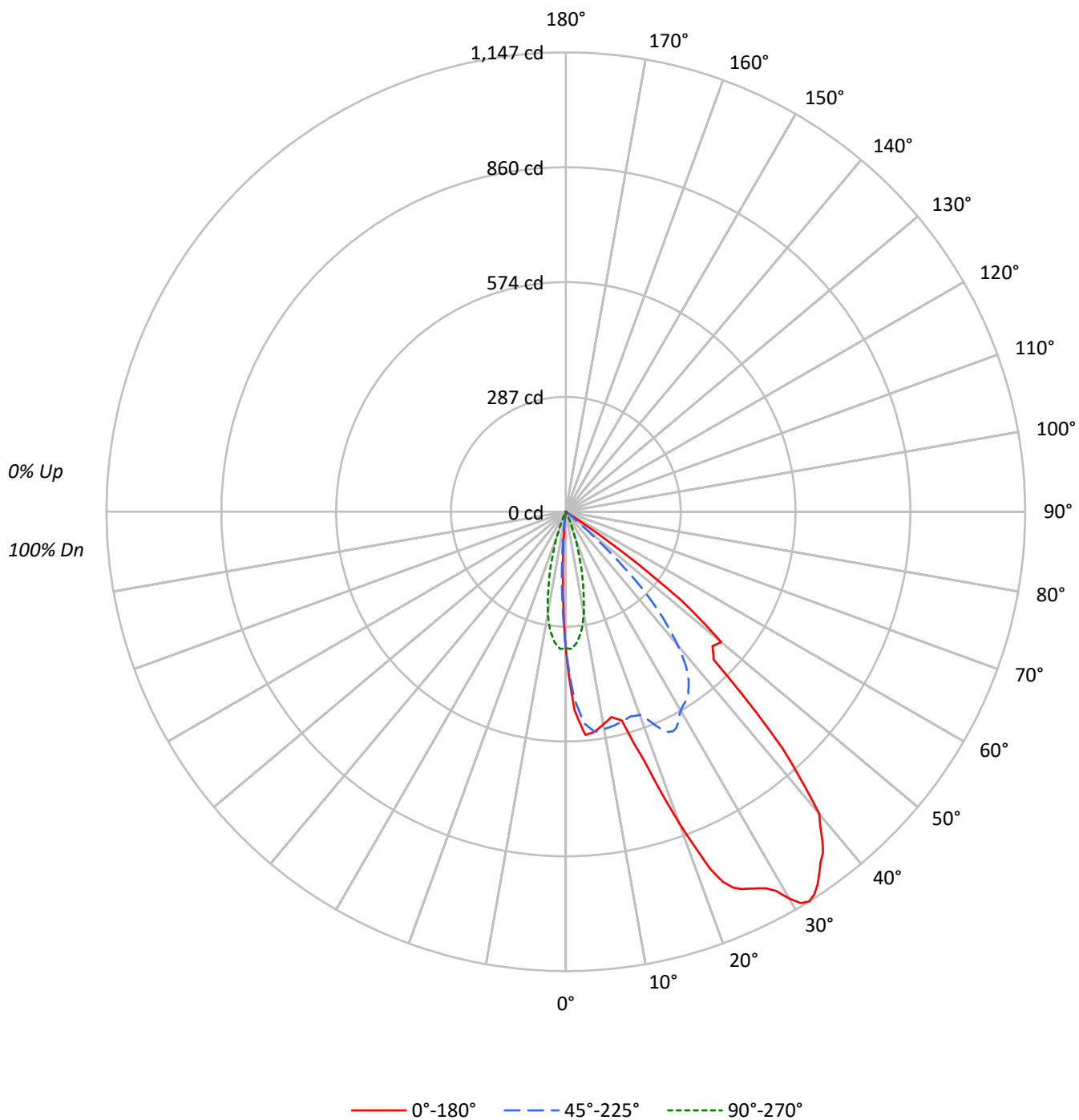
Lumens per Lamp: N/A
Luminaire Lumens: 548.9 lumens
Efficiency: N/A
Efficacy: 76.2 lumens/watt
Spacing Criteria (0/90/45): 1.8 / 0.48 / 1.24
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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

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Luminous Intensity Polar Plot





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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	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	81	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°	58711	58711	58711	58711	58711
5°	96727	91800	56411	16752	8385
10°	94260	96341	45206	839	1137
15°	96103	96691	27083	856	285
20°	151496	98987	11143	0	0
25°	197495	115327	2660	0	0
30°	221675	114049	99	0	0
35°	231984	112313	0	0	0
40°	221313	97572	0	0	0
45°	127089	64397	0	0	0
50°	135627	7368	0	0	0
55°	38644	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	1091	496	0
85°	0	988	2174	988	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°

Vertical Angle: 45°

Luminance: 140339 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.6	5.2
10°-20°	72.1	13.1
20°-30°	138.5	25.2
30°-40°	161.3	29.4
40°-50°	115.4	21.0
50°-60°	32.1	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°	239.3	43.6
0°-40°	400.5	73.0
0°-60°	548.1	99.8
0°-90°	548.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	548.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	341	341	341	341	341	
5°	560	531	326	97	48	51
15°	539	542	152	5	2	174
25°	1039	607	14	0	0	473
35°	1103	534	0	0	0	683
45°	522	264	0	0	0	491
55°	129	0	0	0	0	162
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	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	340.9	340.9	340.9	340.9	340.9	340.9	340.9	340.9	340.9	340.9	340.9
2.5°	495.4	498.1	498.6	492.2	493.3	484.1	484.6	478.2	462.6	408.2	342.5
5°	559.5	557.9	559.5	557.3	559.5	554.1	550.9	548.2	531.0	453.9	326.3
7.5°	553.6	551.4	554.6	555.7	559.5	557.9	558.4	560.0	554.1	478.7	298.9
10°	539.0	538.5	540.1	540.1	544.4	545.0	547.1	550.3	550.9	487.3	258.5
12.5°	525.0	523.4	523.4	522.9	525.0	524.5	529.9	537.4	547.6	481.9	203.0
15°	539.0	537.4	535.3	529.3	525.0	520.2	520.7	525.6	542.3	467.9	151.9
17.5°	652.1	643.5	632.7	613.9	594.0	559.5	539.0	526.1	535.8	446.4	101.2
20°	826.6	822.8	805.6	774.9	742.6	692.0	629.0	578.3	540.1	419.5	60.8
21°	892.8	890.7	872.4	843.8	807.2	745.8	681.2	620.3	548.7	408.2	47.9
22°	960.7	952.6	938.0	906.3	868.0	806.7	734.5	667.2	566.0	393.6	36.6
23°	1004.3	999.4	983.8	958.5	921.9	862.1	788.3	715.1	582.6	377.5	27.5
24°	1026.9	1025.3	1012.9	995.1	963.9	903.0	833.0	757.7	596.6	358.6	19.9
25°	1039.3	1033.9	1026.4	1013.4	989.7	937.0	874.5	794.8	606.9	339.8	14.0
26°	1046.8	1043.6	1031.7	1020.4	997.8	954.7	901.4	817.4	609.6	316.6	9.7
27°	1055.4	1047.9	1036.6	1023.1	997.8	960.1	911.7	827.1	606.3	292.9	6.5
28°	1064.6	1059.2	1043.6	1026.4	996.2	960.1	907.9	814.2	596.6	270.3	3.8
29°	1082.4	1075.4	1056.0	1030.7	996.7	959.1	893.4	787.3	583.7	245.0	2.2
30°	1114.7	1100.1	1076.4	1040.9	1000.5	956.9	869.1	746.9	573.5	216.5	0.5
31°	1140.0	1131.9	1104.4	1059.7	1011.3	951.0	840.6	707.0	566.5	191.7	0.0
32°	1147.0	1141.1	1121.1	1079.1	1029.6	946.1	808.3	668.3	561.1	164.2	0.0
33°	1138.9	1135.1	1114.1	1075.9	1034.4	939.7	771.1	630.0	555.2	139.5	0.0
34°	1123.8	1119.0	1100.7	1061.9	1022.1	911.7	735.6	601.0	546.6	116.3	0.0
35°	1103.4	1099.6	1080.7	1042.5	999.4	868.0	700.0	581.6	534.2	93.2	0.0
36°	1081.3	1080.2	1056.0	1018.3	970.4	826.0	657.0	567.0	521.8	73.8	0.0
37°	1066.7	1061.4	1035.0	997.8	935.9	777.0	622.5	562.2	504.6	57.1	0.0
38°	1040.4	1041.4	1011.3	977.4	900.9	734.5	594.5	558.4	485.2	41.5	0.0
39°	1009.1	1009.7	978.4	949.4	859.4	689.8	571.3	554.6	460.9	26.4	0.0
40°	984.4	983.8	948.3	917.0	814.7	647.8	559.0	549.3	434.0	15.1	0.0
42.5°	800.2	803.4	807.7	820.7	709.7	574.0	547.1	519.1	357.6	0.0	0.0
45°	521.8	534.2	537.4	576.2	575.6	543.9	519.1	465.3	264.4	0.0	0.0
47.5°	496.5	500.3	507.3	522.3	530.4	514.8	464.2	388.8	144.3	0.0	0.0
50°	506.2	505.6	507.3	507.3	492.7	452.3	380.7	287.0	27.5	0.0	0.0
52.5°	363.5	376.9	391.5	397.9	379.1	336.6	277.9	168.5	0.0	0.0	0.0
55°	128.7	124.4	121.2	132.5	129.8	145.9	120.6	39.3	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.5	2.2	4.8	6.5	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	1.1
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	1.1



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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	1.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	1.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	1.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
0°	340.9	340.9	340.9	340.9
2.5°	273.0	209.5	169.6	172.3
5°	191.7	96.9	59.8	48.5
7.5°	114.7	29.6	5.9	4.8
10°	53.8	4.8	5.4	6.5
12.5°	16.2	4.3	5.9	5.4
15°	4.3	4.8	2.7	1.6
17.5°	1.6	2.2	0.0	0.0
20°	1.1	0.0	0.0	0.0
21°	1.1	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



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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)