

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: P1314681

Luminaire Tested: P3SQAS20R309735D010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1314681
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-50)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS20R309735D010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R30 optic, 3500K CCT AND, 97CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

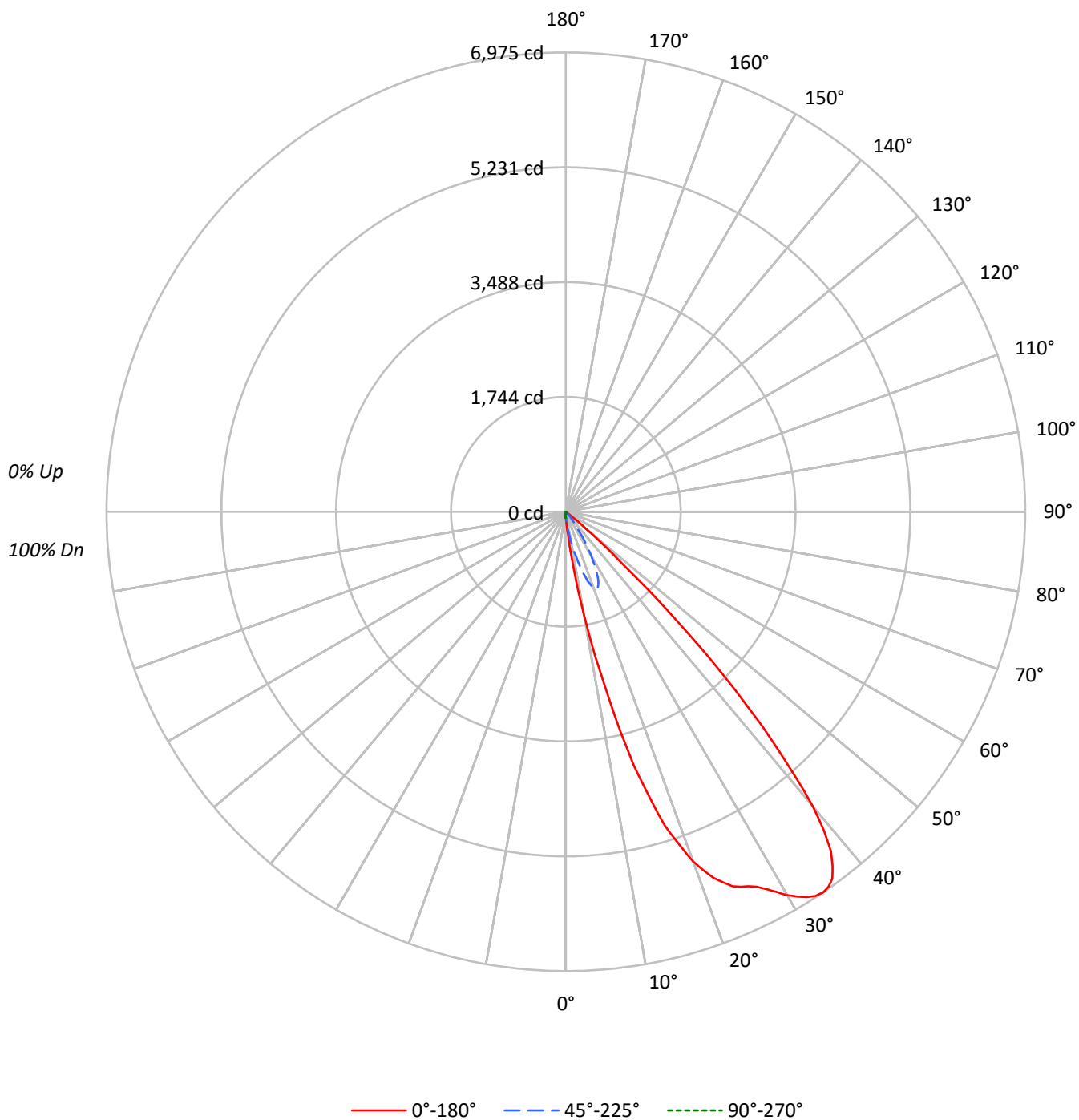
Lumens per Lamp: N/A
Luminaire Lumens: 1679.0 lumens
Efficiency: N/A
Efficacy: 58.3 lumens/watt
Spacing Criteria (0/90/45): 2.41 / 0.46 / 1.21
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 28.8
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	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	78	73	91	83	77	72	81	75	71		78	74	70		76	73	69	68
5	87	77	70	65	85	76	70	65	74	68	64		72	67	63		71	66	63	61
6	81	71	64	58	80	70	63	58	68	62	58		67	61	57		65	61	57	55
7	76	65	58	53	74	64	57	53	63	57	52		61	56	52		60	55	52	50
8	71	60	53	48	70	59	52	48	58	52	47		57	51	47		56	51	47	45
9	66	55	48	43	65	54	48	43	53	47	43		52	47	43		51	46	43	41
10	62	51	44	39	61	50	44	39	49	43	39		48	43	39		48	43	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	15466	15466	15466	15466	15466
5°	56117	34870	14159	5722	4080
10°	277761	83487	11017	1102	0
15°	708521	159006	7025	0	0
20°	1035268	226107	2896	0	0
25°	1194375	221875	608	0	0
30°	1336715	152291	0	0	0
35°	1461897	65596	0	0	0
40°	1312099	25495	0	0	0
45°	670057	10351	0	0	0
50°	103421	1259	0	0	0
55°	6155	0	480	0	0
60°	0	0	551	0	0
65°	0	0	1304	0	0
70°	0	806	1611	0	0
75°	0	1065	3127	0	0
80°	0	1587	4661	0	0
85°	0	3162	9287	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 670057 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	18.8	1.1
10°-20°	223.7	13.3
20°-30°	552.8	32.9
30°-40°	635.8	37.9
40°-50°	235.8	14.0
50°-60°	8.6	0.5
60°-70°	0.8	0.0
70°-80°	1.4	0.1
80°-90°	1.3	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°	795.3	47.4
0°-40°	1431.1	85.2
0°-60°	1675.5	99.8
0°-90°	1679.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1679.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	90	90	90	90	90	
5°	325	202	82	33	24	70
15°	3974	892	39	0	0	1142
25°	6285	1168	3	0	0	2904
35°	6953	312	0	0	0	4216
45°	2751	42	0	0	0	2143
55°	20	0	2	0	0	70
65°	0	0	3	0	0	0
75°	0	2	5	0	0	0
85°	0	2	5	0	0	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8
2.5°	159.1	160.7	160.7	156.0	154.4	152.8	148.1	133.9	111.9	89.8	72.5
5°	324.6	326.2	326.2	316.7	297.8	278.9	263.1	201.7	129.2	81.9	53.6
7.5°	765.8	767.3	734.3	696.4	620.8	581.4	508.9	310.4	146.5	74.1	34.7
10°	1588.3	1553.6	1466.9	1356.6	1240.0	1088.8	935.9	477.4	159.1	63.0	22.1
12.5°	2655.0	2621.9	2510.0	2352.4	2124.0	1827.8	1537.8	671.2	160.7	50.4	12.6
15°	3973.8	3880.8	3746.9	3485.3	3148.1	2689.6	2210.6	891.8	154.4	39.4	3.2
17.5°	4996.4	4911.3	4741.1	4435.5	4016.3	3507.4	2919.7	1101.4	137.1	25.2	0.0
20°	5648.7	5558.9	5399.8	5130.3	4684.4	4087.2	3414.4	1233.7	113.4	15.8	0.0
21°	5834.6	5748.0	5592.0	5324.1	4879.8	4284.2	3535.8	1262.1	102.4	12.6	0.0
22°	5998.5	5930.7	5785.8	5494.3	5042.1	4429.2	3658.7	1265.2	94.5	9.5	0.0
23°	6113.5	6064.7	5919.7	5651.9	5201.2	4547.3	3724.8	1246.3	85.1	6.3	0.0
24°	6223.8	6163.9	6039.5	5790.5	5327.3	4646.6	3784.7	1211.7	75.6	4.7	0.0
25°	6285.3	6215.9	6119.8	5886.6	5431.3	4709.6	3821.0	1167.6	66.2	3.2	0.0
26°	6327.8	6274.2	6168.7	5943.4	5475.4	4750.6	3825.7	1103.0	59.9	1.6	0.0
27°	6392.4	6338.8	6236.4	5993.8	5494.3	4744.3	3797.3	1028.9	52.0	0.0	0.0
28°	6490.1	6419.2	6316.8	6047.3	5502.2	4717.5	3734.3	948.5	44.1	0.0	0.0
29°	6602.0	6529.5	6417.6	6118.2	5503.7	4663.9	3635.0	860.3	39.4	0.0	0.0
30°	6721.7	6658.7	6545.2	6187.6	5521.1	4594.6	3520.0	765.8	31.5	0.0	0.0
31°	6816.3	6759.5	6638.2	6250.6	5535.3	4534.7	3378.2	671.2	26.8	0.0	0.0
32°	6898.2	6847.8	6698.1	6264.8	5506.9	4449.6	3226.9	579.8	22.1	0.0	0.0
33°	6954.9	6891.9	6717.0	6228.5	5425.0	4309.4	3058.3	493.2	17.3	0.0	0.0
34°	6975.4	6899.8	6688.6	6134.0	5259.5	4096.7	2839.3	403.4	14.2	0.0	0.0
35°	6953.3	6860.4	6586.2	5971.7	5035.8	3843.0	2576.2	312.0	11.0	0.0	0.0
36°	6882.4	6764.3	6439.7	5740.1	4715.9	3543.6	2313.1	242.7	7.9	0.0	0.0
37°	6729.6	6598.8	6189.2	5434.4	4399.2	3200.1	2013.7	189.1	4.7	0.0	0.0
38°	6542.1	6353.0	5855.1	5048.4	3989.5	2814.1	1717.5	156.0	3.2	0.0	0.0
39°	6222.2	6014.3	5458.1	4604.0	3587.8	2447.0	1429.1	135.5	1.6	0.0	0.0
40°	5836.2	5588.8	5004.3	4128.2	3113.5	2062.5	1192.8	113.4	1.6	0.0	0.0
42.5°	4402.4	4192.8	3564.1	2807.8	1903.4	1216.4	661.8	74.1	0.0	0.0	0.0
45°	2751.1	2532.1	2106.6	1539.4	1030.5	630.3	318.3	42.5	0.0	0.0	0.0
47.5°	1123.4	1030.5	847.7	652.3	466.4	296.2	132.4	18.9	0.0	0.0	0.0
50°	386.0	343.5	288.3	211.1	149.7	102.4	69.3	4.7	0.0	0.0	0.0
52.5°	111.9	113.4	99.3	85.1	66.2	47.3	34.7	0.0	0.0	0.0	0.0
55°	20.5	17.3	20.5	18.9	20.5	17.3	12.6	0.0	0.0	1.6	0.0
57.5°	0.0	0.0	1.6	1.6	1.6	1.6	1.6	0.0	1.6	1.6	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	3.2	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	3.2	1.6
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	3.2	3.2	1.6
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	3.2	3.2	1.6
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	3.2	4.7	1.6
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	3.2	4.7	1.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	3.2	4.7	1.6
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	3.2	4.7	1.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	3.2	4.7	1.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	3.2	4.7	1.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	3.2	4.7	1.6
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):

	135°	157.5°	180°
0°	89.8	89.8	89.8
2.5°	58.3	52.0	48.8
5°	33.1	25.2	23.6
7.5°	17.3	11.0	9.5
10°	6.3	1.6	0.0
12.5°	0.0	0.0	0.0
15°	0.0	0.0	0.0
17.5°	0.0	0.0	0.0
20°	0.0	0.0	0.0
21°	0.0	0.0	0.0
22°	0.0	0.0	0.0
23°	0.0	0.0	0.0
24°	0.0	0.0	0.0
25°	0.0	0.0	0.0
26°	0.0	0.0	0.0
27°	0.0	0.0	0.0
28°	0.0	0.0	0.0
29°	0.0	0.0	0.0
30°	0.0	0.0	0.0
31°	0.0	0.0	0.0
32°	0.0	0.0	0.0
33°	0.0	0.0	0.0
34°	0.0	0.0	0.0
35°	0.0	0.0	0.0
36°	0.0	0.0	0.0
37°	0.0	0.0	0.0
38°	0.0	0.0	0.0
39°	0.0	0.0	0.0
40°	0.0	0.0	0.0
42.5°	0.0	0.0	0.0
45°	0.0	0.0	0.0
47.5°	0.0	0.0	0.0
50°	0.0	0.0	0.0
52.5°	0.0	0.0	0.0
55°	0.0	0.0	0.0
57.5°	0.0	0.0	0.0
60°	0.0	0.0	0.0
62.5°	0.0	0.0	0.0
65°	0.0	0.0	0.0
67.5°	0.0	0.0	0.0
70°	0.0	0.0	0.0
72.5°	0.0	0.0	0.0
75°	0.0	0.0	0.0
77.5°	0.0	0.0	0.0
80°	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

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

(END OF REPORT)