

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: P1305697

Luminaire Tested: P3SQAS09R159024DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1305697
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-47)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS09R159024DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R15 optic, 2400K CCT AND, 90CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

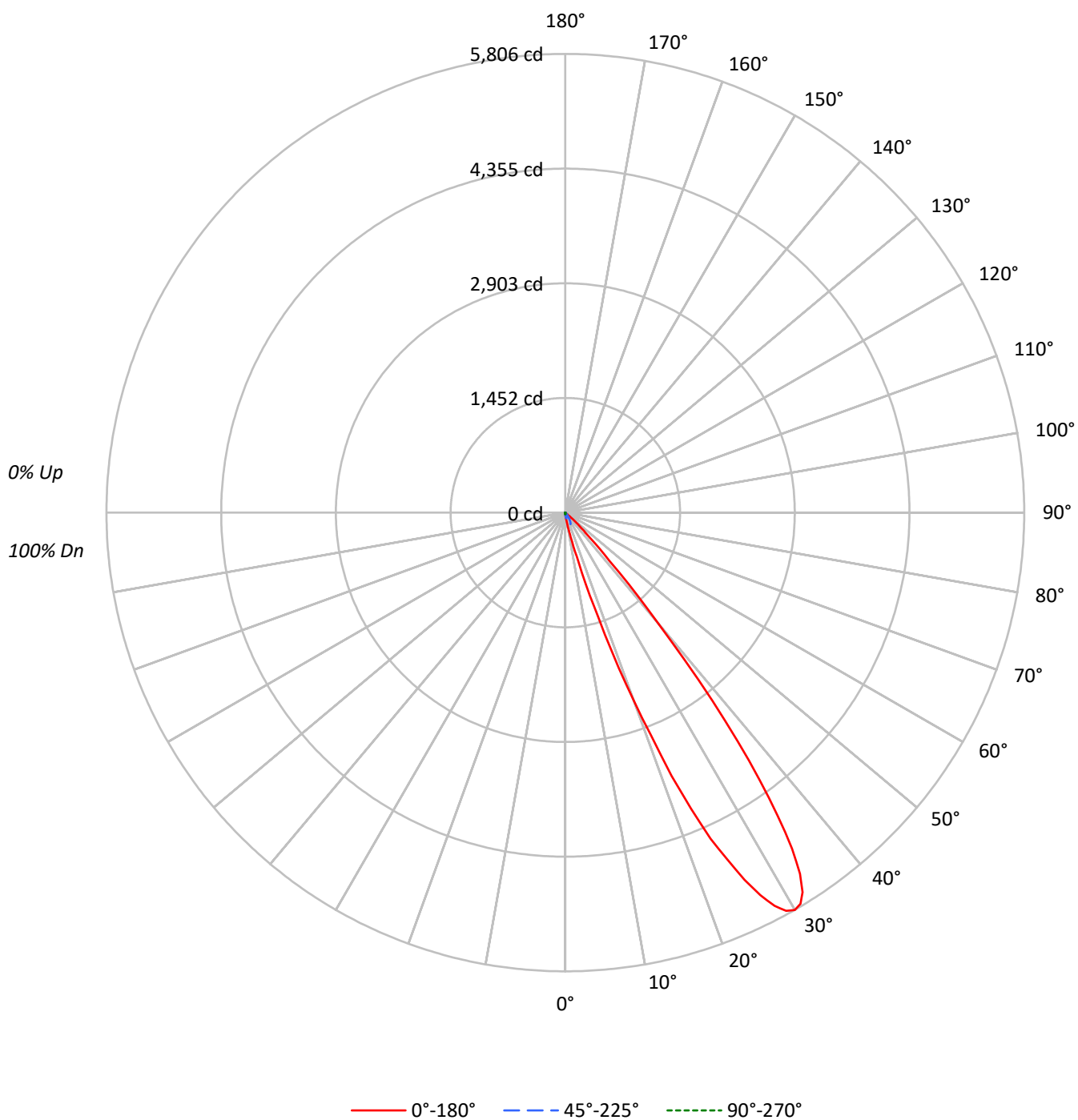
Lumens per Lamp: N/A
Luminaire Lumens: 614.0 lumens
Efficiency: N/A
Efficacy: 55.3 lumens/watt
Spacing Criteria (0/90/45): 2.33 / 0.38 / 1.17
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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

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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			
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	94	92		
2	106	100	96	92	104	99	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	79	74	70	77	73	70	68		
5	87	77	70	65	85	76	70	65	74	68	64	72	67	63	71	66	63	61		
6	81	71	63	58	79	70	63	58	68	62	58	67	61	57	65	60	57	55		
7	76	65	57	52	74	64	57	52	63	56	52	61	56	52	60	55	51	50		
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	46	45		
9	66	55	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	41		
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°	3789	3789	3789	3789	3789
5°	10943	8264	3233	1331	899
10°	28453	12312	2151	0	0
15°	113736	20148	1159	0	0
20°	464695	29709	348	0	0
25°	918589	29454	0	0	0
30°	1154554	23247	0	0	0
35°	985103	14255	0	0	0
40°	405577	4496	0	0	0
45°	87755	1875	0	0	0
50°	11253	0	0	0	0
55°	961	0	180	0	0
60°	0	0	448	0	0
65°	0	0	530	0	0
70°	0	302	957	0	0
75°	0	399	1264	0	0
80°	0	595	1884	0	0
85°	0	1186	3754	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2°

Vertical Angle: 45°

Luminance: 91846 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.9	0.5
10°-20°	43.0	7.0
20°-30°	250.8	40.9
30°-40°	268.9	43.8
40°-50°	45.4	7.4
50°-60°	1.4	0.2
60°-70°	0.4	0.1
70°-80°	0.6	0.1
80°-90°	0.5	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°	296.8	48.3
0°-40°	565.7	92.1
0°-60°	612.5	99.8
0°-90°	614.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	614.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	22	22	22	22	22	
5°	63	48	19	8	5	9
15°	638	113	6	0	0	295
25°	4834	155	0	0	0	2187
35°	4686	68	0	0	0	2693
45°	360	8	0	0	0	426
55°	3	0	1	0	0	8
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	

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CANDELA DISTRIBUTION (FULL):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0
2.5°	40.0	40.7	41.3	41.3	41.3	41.3	40.7	40.7	40.7	40.7	40.0
5°	63.3	63.3	63.3	63.3	63.3	63.3	62.6	62.6	62.6	62.6	62.6
7.5°	90.4	89.1	89.7	87.8	89.1	88.5	87.8	89.1	89.1	85.9	85.9
10°	162.7	162.1	155.6	156.9	158.2	157.5	157.5	153.7	153.0	150.4	147.9
12.5°	313.8	320.9	326.1	326.1	313.8	318.3	309.9	311.9	313.1	309.3	295.7
15°	637.9	649.5	637.3	648.9	644.4	627.6	608.9	583.7	593.4	575.9	570.1
17.5°	1397.2	1423.7	1412.7	1359.1	1376.5	1335.2	1309.4	1299.7	1272.6	1191.9	1158.3
20°	2535.5	2567.8	2537.4	2474.8	2494.8	2416.7	2396.7	2377.9	2257.9	2213.9	2073.2
21°	3014.6	3041.0	3052.7	2987.4	2947.4	2885.4	2833.8	2817.0	2744.0	2659.4	2514.8
22°	3593.1	3562.1	3492.3	3501.4	3442.0	3391.0	3319.3	3251.5	3170.2	3052.0	2932.6
23°	4072.1	4036.0	4003.1	3963.0	3899.1	3862.9	3760.3	3686.0	3580.2	3453.6	3338.7
24°	4518.3	4462.8	4442.1	4371.1	4353.0	4271.6	4188.4	4091.5	3963.7	3828.7	3701.5
25°	4834.0	4842.4	4824.3	4815.9	4723.6	4640.3	4557.7	4408.5	4299.4	4180.0	3984.3
26°	5172.3	5176.2	5167.2	5105.2	5021.9	4940.5	4834.0	4704.2	4546.1	4413.7	4236.8
27°	5431.2	5415.7	5402.8	5329.2	5260.8	5158.1	5061.3	4907.6	4753.3	4595.8	4390.4
28°	5637.9	5608.8	5592.7	5529.4	5449.3	5323.4	5204.6	5061.3	4907.0	4737.8	4515.7
29°	5762.5	5731.5	5713.4	5643.7	5551.3	5440.9	5320.8	5163.3	4997.4	4808.8	4585.4
30°	5805.7	5787.6	5759.2	5686.9	5591.4	5476.4	5353.1	5182.0	5008.3	4815.3	4579.0
31°	5777.3	5754.1	5727.0	5648.8	5545.5	5435.8	5292.4	5112.9	4930.2	4746.2	4495.7
32°	5664.3	5650.1	5617.2	5512.6	5428.7	5286.6	5145.2	4977.3	4777.8	4580.3	4353.6
33°	5452.6	5429.3	5400.9	5305.3	5198.2	5061.9	4921.2	4749.4	4551.2	4342.7	4093.4
34°	5129.7	5100.0	5064.5	5000.6	4863.7	4745.6	4582.9	4382.1	4218.1	4017.9	3792.6
35°	4685.5	4642.3	4599.6	4551.2	4397.6	4288.4	4178.7	4003.7	3845.5	3657.0	3402.0
36°	4187.1	4170.3	4135.4	4007.6	3957.9	3809.4	3720.9	3520.1	3392.3	3207.6	2997.1
37°	3623.4	3524.6	3575.0	3503.3	3353.5	3307.0	3201.8	3029.4	2891.2	2696.3	2543.9
38°	3019.1	2954.5	2990.0	2917.7	2839.6	2732.4	2652.3	2526.4	2371.5	2218.5	2073.8
39°	2392.8	2340.5	2379.2	2330.2	2211.4	2166.8	2095.8	1999.6	1875.0	1755.5	1618.7
40°	1804.0	1736.8	1788.5	1718.7	1664.5	1591.5	1555.4	1466.9	1389.4	1317.8	1230.6
42.5°	823.9	816.8	805.1	780.0	774.1	774.8	730.2	701.2	661.8	616.0	588.2
45°	360.3	369.3	377.1	362.9	362.2	354.5	351.9	332.5	324.8	309.9	291.8
47.5°	177.6	180.8	178.8	182.7	179.5	174.3	173.0	170.5	162.7	162.1	153.7
50°	42.0	41.3	41.3	42.0	41.3	41.3	40.7	39.4	38.7	39.4	37.4
52.5°	13.6	14.2	13.6	12.9	13.6	14.2	13.6	13.6	13.6	13.6	13.6
55°	3.2	3.2	3.2	3.2	3.2	3.2	2.6	2.6	3.2	3.2	3.2
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0.0	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



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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

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CANDELA DISTRIBUTION (continued):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0
2.5°	39.4	33.6	27.8	22.0	16.1	12.9	12.3	11.6
5°	59.4	47.8	31.6	18.7	11.0	7.7	5.8	5.2
7.5°	80.1	59.4	34.9	15.5	7.7	3.2	1.3	0.6
10°	114.9	70.4	36.2	12.3	3.9	0.0	0.0	0.0
12.5°	225.3	80.7	35.5	9.7	0.6	0.0	0.0	0.0
15°	374.5	113.0	32.9	6.5	0.0	0.0	0.0	0.0
17.5°	613.4	145.9	28.4	4.5	0.0	0.0	0.0	0.0
20°	951.0	162.1	22.0	1.9	0.0	0.0	0.0	0.0
21°	1115.0	163.4	19.4	1.3	0.0	0.0	0.0	0.0
22°	1257.1	163.4	16.8	0.6	0.0	0.0	0.0	0.0
23°	1388.8	161.4	14.9	0.0	0.0	0.0	0.0	0.0
24°	1497.3	158.8	13.6	0.0	0.0	0.0	0.0	0.0
25°	1578.6	155.0	12.3	0.0	0.0	0.0	0.0	0.0
26°	1616.1	149.8	10.3	0.0	0.0	0.0	0.0	0.0
27°	1634.8	142.7	9.0	0.0	0.0	0.0	0.0	0.0
28°	1621.9	134.9	7.7	0.0	0.0	0.0	0.0	0.0
29°	1589.6	126.5	5.8	0.0	0.0	0.0	0.0	0.0
30°	1547.6	116.9	4.5	0.0	0.0	0.0	0.0	0.0
31°	1486.3	107.2	3.2	0.0	0.0	0.0	0.0	0.0
32°	1402.4	97.5	2.6	0.0	0.0	0.0	0.0	0.0
33°	1290.0	87.2	1.3	0.0	0.0	0.0	0.0	0.0
34°	1151.2	76.8	0.6	0.0	0.0	0.0	0.0	0.0
35°	995.6	67.8	0.0	0.0	0.0	0.0	0.0	0.0
36°	861.9	58.1	0.0	0.0	0.0	0.0	0.0	0.0
37°	727.7	46.5	0.0	0.0	0.0	0.0	0.0	0.0
38°	609.5	36.8	0.0	0.0	0.0	0.0	0.0	0.0
39°	504.3	29.7	0.0	0.0	0.0	0.0	0.0	0.0
40°	417.7	20.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	231.1	13.6	0.0	0.0	0.0	0.0	0.0	0.0
45°	140.1	7.7	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	81.4	2.6	0.0	0.0	0.0	0.0	0.0	0.0
50°	31.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	10.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	2.6	0.0	0.0	0.6	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.6	1.3	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.6	1.3	0.6	0.0	0.0	0.0
65°	0.0	0.0	1.3	1.3	0.6	0.0	0.0	0.0
67.5°	0.0	0.0	1.3	1.9	0.6	0.0	0.0	0.0
70°	0.0	0.6	1.3	1.9	0.6	0.0	0.0	0.0
72.5°	0.0	0.6	1.3	1.9	0.6	0.0	0.0	0.0
75°	0.0	0.6	1.3	1.9	0.6	0.0	0.0	0.0
77.5°	0.0	0.6	1.3	1.9	0.6	0.0	0.0	0.0
80°	0.0	0.6	1.3	1.9	0.6	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.0	0.6	1.3	1.9	0.6	0.0	0.0	0.0
85°	0.0	0.6	1.3	1.9	0.6	0.0	0.0	0.0
87.5°	0.0	0.6	1.3	1.9	0.6	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)