

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: P1314664

Luminaire Tested: P3SQAS20R259735D010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1314664
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-49)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS20R259735D010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R25 optic, 3500K CCT AND, 97CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

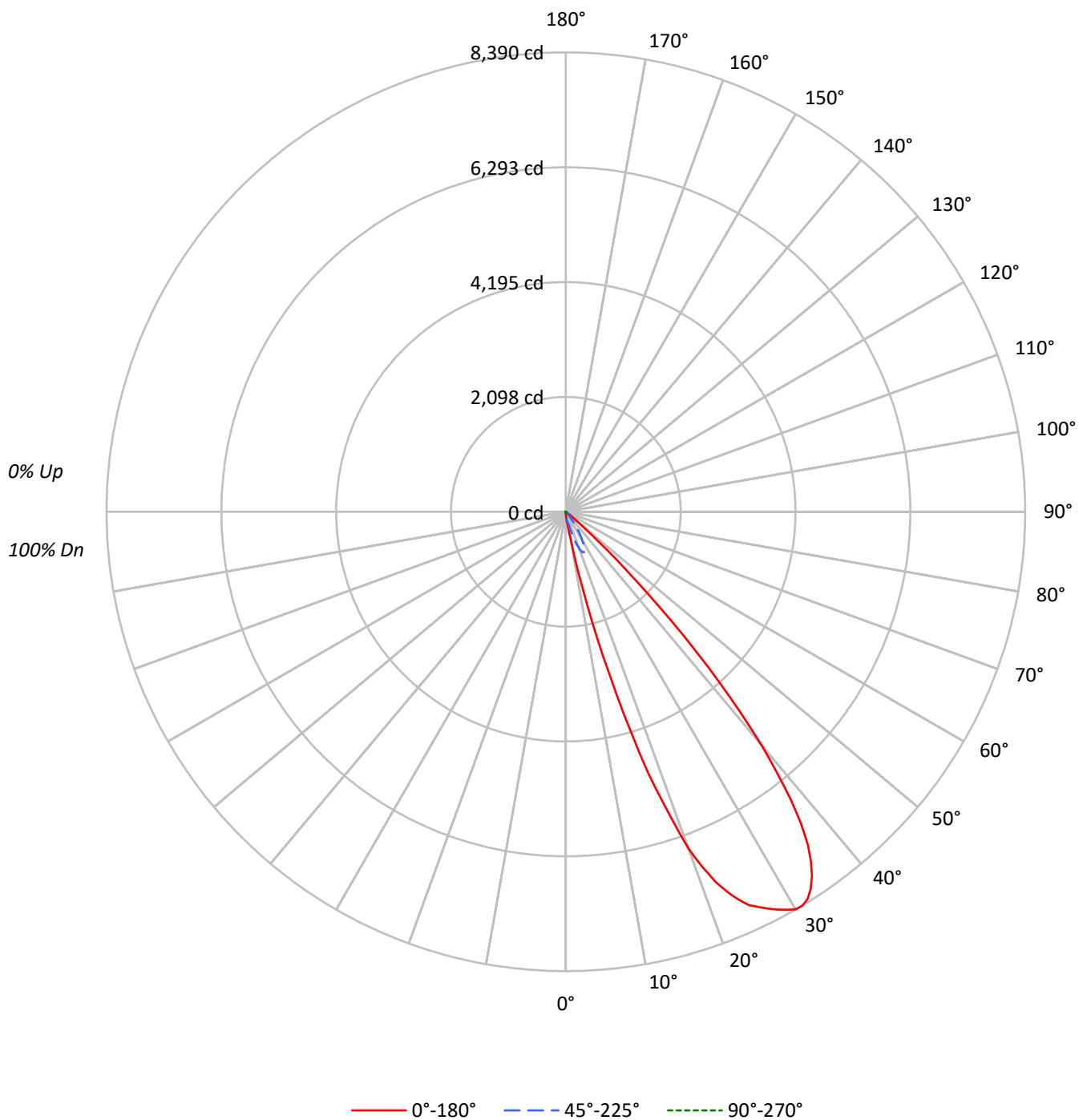
Lumens per Lamp: N/A
Luminaire Lumens: 1644.0 lumens
Efficiency: N/A
Efficacy: 57.1 lumens/watt
Spacing Criteria (0/90/45): 2.4 / 0.45 / 1.25
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	50	30	10
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	95	92	103	98	94	90	95	92	88	92	89	87	89	87	85	83		
3	99	92	86	81	97	90	85	80	87	83	79	85	81	78	83	79	77	75		
4	93	84	77	72	91	83	76	72	80	75	71	78	74	70	76	72	69	67		
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	62	61		
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	56	55		
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49		
8	70	59	52	47	69	58	52	47	57	51	47	56	51	46	55	50	46	45		
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40		
10	62	50	43	38	60	50	43	38	49	42	38	48	42	38	47	42	38	36		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	8956	8956	8956	8956	8956
5°	28041	19605	8160	4357	3267
10°	88402	35518	6051	542	0
15°	546626	67664	3655	0	0
20°	1198512	131885	1155	0	0
25°	1506569	151698	0	0	0
30°	1667786	117430	0	0	0
35°	1641719	66543	0	0	0
40°	1247890	17356	0	0	0
45°	505484	7672	0	0	0
50°	56105	831	0	0	0
55°	4264	0	480	0	0
60°	0	0	551	0	0
65°	0	0	1263	0	0
70°	0	806	1561	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: 505484 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.1	0.5
10°-20°	169.8	10.3
20°-30°	593.6	36.1
30°-40°	662.2	40.3
40°-50°	200.0	12.2
50°-60°	6.7	0.4
60°-70°	0.9	0.1
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°	771.5	46.9
0°-40°	1433.7	87.2
0°-60°	1640.4	99.8
0°-90°	1644.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1644.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	52	52	52	52	52	
5°	162	113	47	25	19	25
15°	3066	380	20	0	0	1019
25°	7928	798	0	0	0	3617
35°	7809	316	0	0	0	4688
45°	2075	32	0	0	0	1792
55°	14	0	2	0	0	44
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°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0
2.5°	89.8	92.9	91.3	92.9	91.3	91.3	91.3	92.9	91.3	91.3	91.3
5°	162.2	163.8	163.8	162.2	162.2	165.3	162.2	163.8	159.0	162.2	160.6
7.5°	266.1	263.0	263.0	264.5	264.5	261.4	259.8	256.7	259.8	259.8	255.1
10°	505.5	502.3	494.4	491.3	494.4	494.4	478.7	481.8	483.4	469.2	464.5
12.5°	1484.9	1473.8	1495.9	1461.3	1440.8	1407.7	1426.6	1362.1	1347.9	1338.4	1316.4
15°	3065.8	3149.3	3113.0	3116.2	3122.5	3043.8	3070.5	2972.9	2891.0	2865.8	2848.5
17.5°	4999.4	5024.6	4991.6	4975.8	4969.5	4931.7	4886.1	4837.3	4774.3	4719.2	4673.5
20°	6539.4	6520.5	6463.8	6470.1	6402.4	6367.8	6328.4	6279.6	6230.8	6150.5	6073.3
21°	6945.7	6890.6	6892.1	6854.3	6852.8	6808.7	6739.4	6689.0	6644.9	6553.6	6504.8
22°	7279.5	7266.9	7238.6	7210.2	7180.3	7158.3	7081.1	7055.9	6966.1	6890.6	6821.3
23°	7539.3	7544.0	7518.8	7499.9	7459.0	7449.6	7350.4	7315.7	7254.3	7139.4	7068.5
24°	7755.0	7747.2	7718.8	7685.7	7662.1	7640.1	7564.5	7507.8	7440.1	7345.6	7276.3
25°	7928.2	7909.3	7890.5	7865.3	7827.5	7802.3	7725.1	7662.1	7603.9	7498.4	7403.9
26°	8030.6	8035.3	8005.4	7986.5	7953.4	7928.2	7847.9	7773.9	7701.5	7588.1	7503.1
27°	8134.5	8129.8	8103.0	8074.7	8040.0	8030.6	7937.7	7860.5	7786.5	7666.9	7566.1
28°	8230.6	8218.0	8195.9	8162.9	8125.1	8096.7	8007.0	7926.7	7846.4	7718.8	7608.6
29°	8310.9	8298.3	8284.1	8241.6	8192.8	8173.9	8077.8	7980.2	7899.9	7769.2	7652.7
30°	8386.5	8362.8	8329.8	8293.6	8246.3	8210.1	8109.3	8024.3	7929.8	7785.0	7673.2
31°	8389.6	8358.1	8334.5	8296.7	8243.2	8199.1	8093.6	8007.0	7896.7	7761.3	7640.1
32°	8334.5	8318.7	8281.0	8240.0	8188.1	8144.0	8027.4	7936.1	7832.2	7687.3	7566.1
33°	8210.1	8194.4	8172.3	8129.8	8062.1	8021.1	7917.2	7816.4	7714.1	7583.4	7444.8
34°	8038.5	8019.6	7991.2	7948.7	7879.4	7836.9	7753.5	7649.5	7540.9	7405.5	7276.3
35°	7808.6	7772.4	7764.5	7701.5	7636.9	7625.9	7526.7	7418.1	7307.8	7158.3	7046.5
36°	7523.6	7481.0	7452.7	7430.7	7388.1	7336.2	7238.6	7152.0	7010.2	6914.2	6756.7
37°	7134.6	7082.7	7109.4	7049.6	6983.5	6961.4	6837.0	6758.3	6638.6	6507.9	6374.1
38°	6681.1	6676.4	6670.1	6643.3	6530.0	6471.7	6419.8	6336.3	6232.4	6074.9	5893.8
39°	6108.0	6117.4	6084.4	6087.5	6030.8	5972.6	5900.1	5805.6	5679.7	5536.4	5389.9
40°	5550.6	5416.7	5440.3	5360.0	5364.8	5278.1	5183.7	5100.2	5019.9	4893.9	4694.0
42.5°	3840.5	3820.0	3749.2	3698.8	3720.8	3609.0	3484.6	3368.1	3256.3	3114.6	2939.8
45°	2075.4	2028.1	2042.3	1960.4	1960.4	1910.0	1875.4	1777.8	1673.8	1609.3	1508.5
47.5°	771.6	781.0	798.3	765.3	727.5	749.5	716.5	716.5	699.1	678.7	650.3
50°	209.4	212.6	209.4	209.4	204.7	201.6	195.3	193.7	192.1	187.4	179.5
52.5°	85.0	80.3	80.3	81.9	81.9	78.7	80.3	80.3	78.7	77.2	77.2
55°	14.2	15.7	15.7	15.7	15.7	14.2	14.2	15.7	17.3	15.7	15.7
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°	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0
2.5°	88.2	77.2	64.6	53.5	42.5	36.2	33.1	34.6
5°	149.6	113.4	74.0	47.2	33.1	25.2	20.5	18.9
7.5°	229.9	155.9	83.5	40.9	25.2	12.6	7.9	6.3
10°	352.7	203.1	89.8	34.6	15.7	3.1	0.0	0.0
12.5°	905.4	248.8	91.3	28.3	6.3	0.0	0.0	0.0
15°	1861.2	379.5	88.2	20.5	1.6	0.0	0.0	0.0
17.5°	3094.1	581.0	77.2	14.2	0.0	0.0	0.0	0.0
20°	4292.4	719.6	61.4	6.3	0.0	0.0	0.0	0.0
21°	4653.0	760.5	55.1	4.7	0.0	0.0	0.0	0.0
22°	4947.5	790.5	48.8	3.1	0.0	0.0	0.0	0.0
23°	5193.1	806.2	42.5	1.6	0.0	0.0	0.0	0.0
24°	5364.8	809.4	39.4	1.6	0.0	0.0	0.0	0.0
25°	5446.6	798.3	34.6	0.0	0.0	0.0	0.0	0.0
26°	5478.1	776.3	31.5	0.0	0.0	0.0	0.0	0.0
27°	5454.5	747.9	28.3	0.0	0.0	0.0	0.0	0.0
28°	5412.0	705.4	23.6	0.0	0.0	0.0	0.0	0.0
29°	5328.5	648.7	20.5	0.0	0.0	0.0	0.0	0.0
30°	5248.2	590.5	17.3	0.0	0.0	0.0	0.0	0.0
31°	5156.9	538.5	14.2	0.0	0.0	0.0	0.0	0.0
32°	5045.1	478.7	11.0	0.0	0.0	0.0	0.0	0.0
33°	4859.3	423.6	7.9	0.0	0.0	0.0	0.0	0.0
34°	4599.5	371.6	6.3	0.0	0.0	0.0	0.0	0.0
35°	4251.5	316.5	4.7	0.0	0.0	0.0	0.0	0.0
36°	3870.4	258.2	3.1	0.0	0.0	0.0	0.0	0.0
37°	3404.3	187.4	3.1	0.0	0.0	0.0	0.0	0.0
38°	2917.8	118.1	1.6	0.0	0.0	0.0	0.0	0.0
39°	2420.2	89.8	1.6	0.0	0.0	0.0	0.0	0.0
40°	1965.1	77.2	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	1051.9	52.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	620.4	31.5	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	346.4	12.6	0.0	0.0	0.0	0.0	0.0	0.0
50°	124.4	3.1	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	48.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	17.3	0.0	0.0	1.6	0.0	0.0	0.0	0.0
57.5°	1.6	0.0	1.6	1.6	0.0	0.0	0.0	0.0
60°	0.0	0.0	1.6	1.6	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	1.6	3.1	0.0	0.0	0.0	0.0
65°	0.0	0.0	3.1	3.1	1.6	0.0	0.0	0.0
67.5°	0.0	1.6	3.1	3.1	1.6	0.0	0.0	0.0
70°	0.0	1.6	3.1	3.1	1.6	0.0	0.0	0.0
72.5°	0.0	1.6	3.1	4.7	1.6	0.0	0.0	0.0
75°	0.0	1.6	3.1	4.7	1.6	0.0	0.0	0.0
77.5°	0.0	1.6	3.1	4.7	1.6	0.0	0.0	0.0
80°	0.0	1.6	3.1	4.7	1.6	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	1.6	3.1	4.7	1.6	0.0	0.0	0.0
85°	0.0	1.6	3.1	4.7	1.6	0.0	0.0	0.0
87.5°	0.0	1.6	3.1	4.7	1.6	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)