

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: P1315687

Luminaire Tested: P3SQAS20R409740D010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1315687
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-52)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS20R409740D010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R40 optic, 4000K CCT AND, 97CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

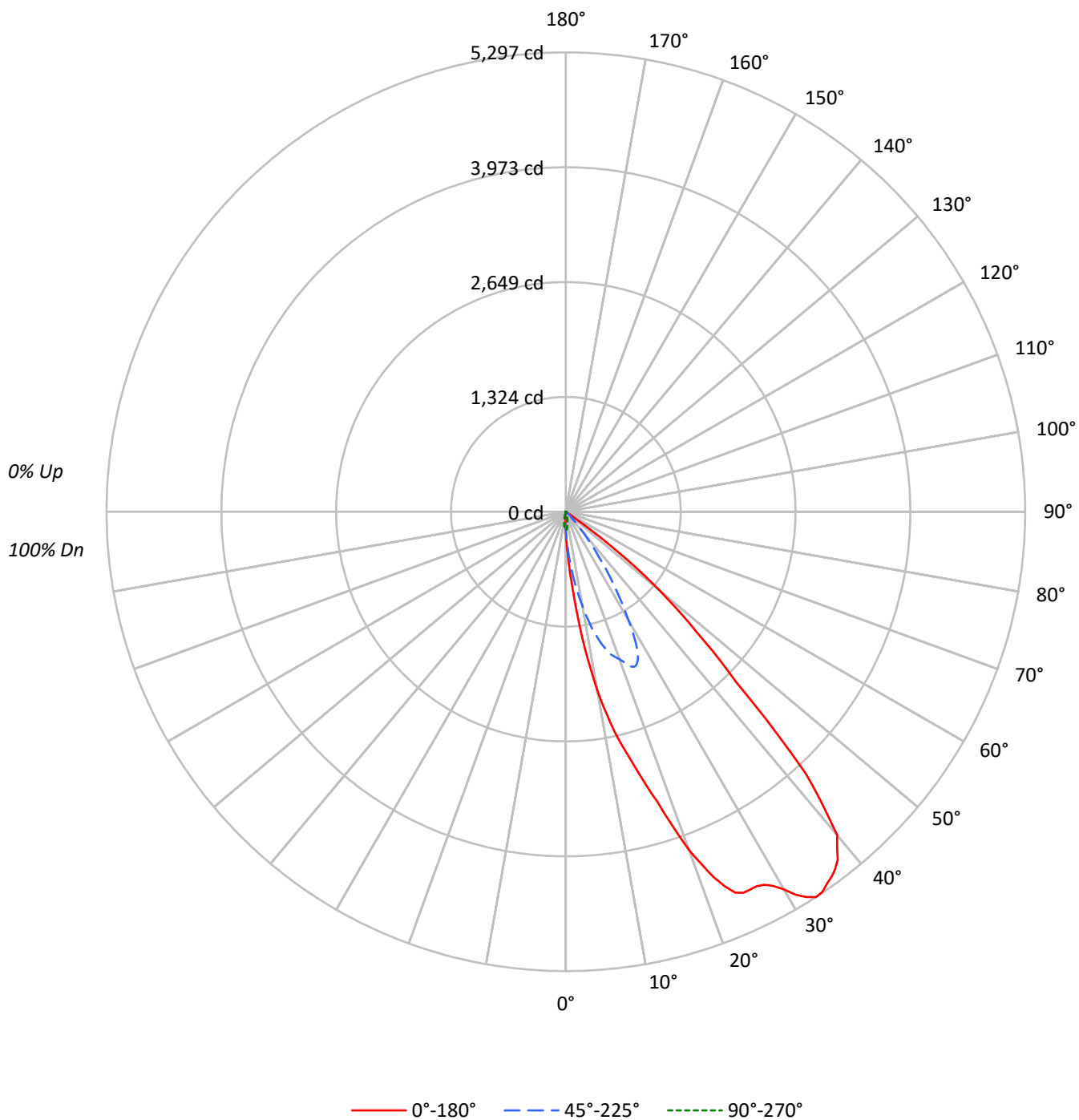
Lumens per Lamp: N/A
Luminaire Lumens: 1778.0 lumens
Efficiency: N/A
Efficacy: 61.7 lumens/watt
Spacing Criteria (0/90/45): 2.56 / 0.36 / 1.23
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91		
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	83		
3	99	91	85	80	97	90	84	80	87	82	78	84	81	77	82	79	76	74		
4	92	83	77	72	90	82	76	71	80	74	70	78	73	69	76	72	68	67		
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	60		
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54		
7	75	64	57	52	74	63	56	51	62	56	51	60	55	51	59	54	50	49		
8	70	59	51	47	69	58	51	46	57	51	46	56	50	46	55	50	46	44		
9	66	54	47	42	64	54	47	42	52	46	42	51	46	42	51	45	42	40		
10	62	50	43	38	60	49	43	38	49	42	38	48	42	38	47	42	38	36		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	35822	35822	35822	35822	35822
5°	152014	103607	31430	5653	2835
10°	365393	192717	19464	577	0
15°	537782	279981	8166	0	0
20°	760153	331912	3006	0	0
25°	920717	368405	0	0	0
30°	999677	288176	0	0	0
35°	1102336	168680	0	0	0
40°	1094090	68480	0	0	0
45°	677583	19948	0	0	0
50°	377300	429	0	0	0
55°	36872	0	0	0	0
60°	0	0	551	0	0
65°	0	0	652	0	0
70°	0	806	1662	0	0
75°	0	1065	2196	0	0
80°	0	1587	3273	0	0
85°	0	3162	6521	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 5°

Vertical Angle: 45°

Luminance: 680773 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.0	2.2
10°-20°	229.2	12.9
20°-30°	523.1	29.4
30°-40°	617.7	34.7
40°-50°	330.0	18.6
50°-60°	35.9	2.0
60°-70°	0.7	0.0
70°-80°	1.3	0.1
80°-90°	1.2	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°	791.3	44.5
0°-40°	1409.0	79.2
0°-60°	1774.9	99.8
0°-90°	1778.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1778.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	208	208	208	208	208	
5°	879	599	182	33	16	124
15°	3016	1570	46	0	0	896
25°	4845	1939	0	0	0	2200
35°	5243	802	0	0	0	3239
45°	2782	82	0	0	0	2294
55°	123	0	0	0	0	344
65°	0	0	2	0	0	0
75°	0	2	3	0	0	0
85°	0	2	3	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°	208.0	208.0	208.0	208.0	208.0	208.0	208.0	208.0	208.0	208.0	208.0
2.5°	484.7	474.9	481.4	468.3	468.3	438.8	440.5	415.9	379.9	289.8	206.3
5°	879.3	918.6	887.5	846.6	823.6	794.2	754.9	713.9	599.3	361.9	181.8
7.5°	1472.1	1468.8	1416.4	1372.2	1321.4	1242.8	1169.1	1069.2	853.1	414.3	150.6
10°	2089.4	2077.9	2019.0	1981.3	1884.7	1771.7	1621.1	1460.6	1102.0	432.3	111.3
12.5°	2603.5	2588.8	2539.7	2475.8	2369.4	2226.9	2064.8	1853.6	1364.0	412.6	72.0
15°	3016.2	3012.9	2965.4	2878.6	2767.3	2628.1	2444.7	2190.9	1570.3	361.9	45.8
17.5°	3505.8	3525.4	3440.3	3346.9	3186.5	2991.6	2767.3	2477.4	1722.6	299.7	29.5
20°	4147.6	4119.8	4041.2	3905.3	3751.4	3517.2	3199.6	2785.3	1811.0	232.5	16.4
21°	4344.1	4332.7	4250.8	4124.7	3954.4	3717.0	3389.5	2942.5	1851.9	208.0	13.1
22°	4543.9	4524.2	4460.4	4337.6	4177.1	3908.6	3548.3	3104.6	1904.3	181.8	8.2
23°	4692.9	4684.7	4635.6	4514.4	4349.0	4088.7	3720.3	3255.2	1940.4	157.2	4.9
24°	4807.5	4797.7	4748.6	4656.9	4514.4	4242.6	3893.8	3417.3	1955.1	135.9	1.6
25°	4845.2	4850.1	4820.6	4748.6	4629.0	4357.2	4023.2	3545.1	1938.7	116.3	0.0
26°	4846.8	4861.6	4840.3	4799.3	4701.1	4448.9	4144.4	3620.4	1896.2	98.2	0.0
27°	4846.8	4861.6	4840.3	4809.2	4712.5	4501.3	4209.9	3628.6	1830.7	83.5	0.0
28°	4869.7	4877.9	4850.1	4812.4	4707.6	4517.7	4227.9	3579.4	1725.9	72.0	0.0
29°	4933.6	4925.4	4879.6	4828.8	4702.7	4517.7	4173.8	3486.1	1594.9	60.6	0.0
30°	5026.9	5026.9	4954.9	4874.7	4725.6	4516.1	4087.0	3317.4	1449.1	49.1	0.0
31°	5153.0	5141.6	5069.5	4950.0	4774.8	4516.1	3959.3	3130.8	1314.9	42.6	0.0
32°	5238.2	5231.6	5162.8	5022.0	4855.0	4516.1	3821.8	2924.5	1169.1	34.4	0.0
33°	5297.1	5284.0	5205.4	5059.7	4904.1	4493.1	3667.9	2703.4	1038.1	27.8	0.0
34°	5288.9	5285.6	5203.8	5053.1	4894.3	4398.2	3489.4	2457.8	917.0	22.9	0.0
35°	5243.1	5243.1	5143.2	4987.6	4823.9	4259.0	3312.5	2248.2	802.3	16.4	0.0
36°	5208.7	5195.6	5082.6	4909.0	4706.0	4039.6	3050.5	2037.0	679.5	13.1	0.0
37°	5157.9	5133.4	5007.3	4820.6	4539.0	3802.1	2775.5	1848.7	574.7	8.2	0.0
38°	5092.4	5054.8	4900.8	4717.5	4355.6	3528.7	2495.5	1637.4	478.1	4.9	0.0
39°	4972.9	4941.8	4783.0	4584.8	4136.2	3240.5	2223.6	1439.3	386.4	1.6	0.0
40°	4866.5	4812.4	4632.3	4404.7	3879.1	2914.6	1953.5	1244.5	304.6	0.0	0.0
42.5°	4103.4	4046.1	4005.2	3779.2	3089.8	2092.6	1364.0	797.4	158.8	0.0	0.0
45°	2782.0	2795.1	2667.4	2515.1	2038.6	1364.0	853.1	443.7	81.9	0.0	0.0
47.5°	2028.8	1994.4	1820.8	1532.6	1195.3	797.4	445.4	214.5	32.7	0.0	0.0
50°	1408.2	1342.7	1185.5	969.4	650.1	379.9	196.5	99.9	1.6	0.0	0.0
52.5°	764.7	718.8	609.1	442.1	270.2	145.7	78.6	40.9	0.0	0.0	0.0
55°	122.8	85.1	88.4	75.3	58.9	42.6	24.6	4.9	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0	1.6	0.0	0.0	0.0	1.6	1.6
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	3.3
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	3.3	3.3
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	3.3	3.3
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	3.3	3.3
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	3.3	3.3
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	3.3	3.3



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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	1.6	1.6	3.3	3.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	3.3	3.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	3.3	3.3
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°	208.0	208.0	208.0	208.0
2.5°	139.2	95.0	72.0	62.2
5°	80.2	32.7	18.0	16.4
7.5°	39.3	11.5	6.5	6.5
10°	16.4	3.3	0.0	0.0
12.5°	4.9	0.0	0.0	0.0
15°	0.0	0.0	0.0	0.0
17.5°	0.0	0.0	0.0	0.0
20°	0.0	0.0	0.0	0.0
21°	0.0	0.0	0.0	0.0
22°	0.0	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°	1.6	0.0	0.0	0.0
67.5°	1.6	0.0	0.0	0.0
70°	1.6	0.0	0.0	0.0
72.5°	1.6	0.0	0.0	0.0
75°	1.6	0.0	0.0	0.0
77.5°	1.6	0.0	0.0	0.0
80°	1.6	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
82.5°	1.6	0.0	0.0	0.0
85°	1.6	0.0	0.0	0.0
87.5°	1.6	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)