

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: P1309538

Luminaire Tested: P3SQAS24R209035D010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1309538
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-48)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS24R209035D010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R20 optic, 3500K CCT AND, 90CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

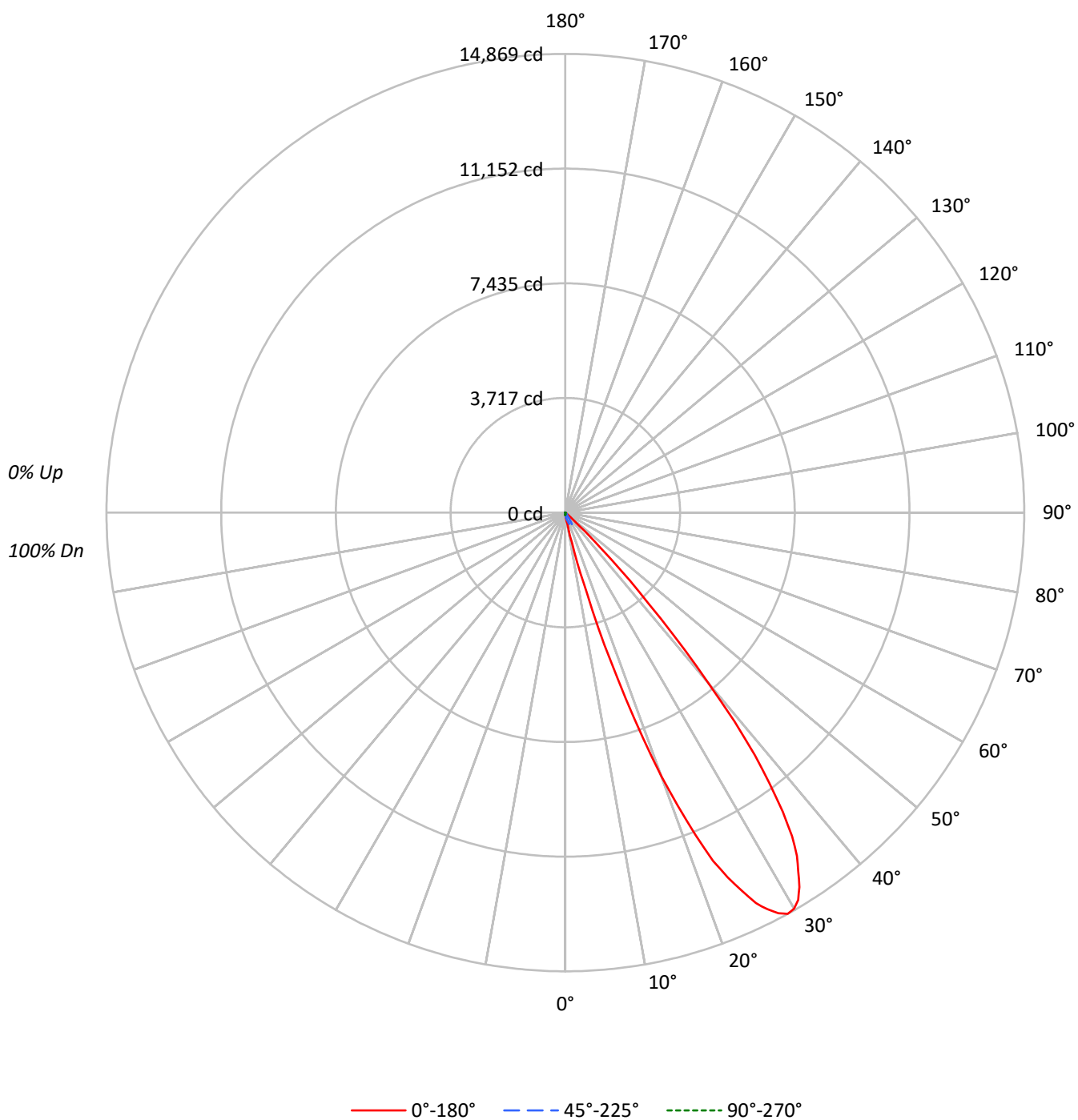
Lumens per Lamp: N/A
Luminaire Lumens: 2052.0 lumens
Efficiency: N/A
Efficacy: 71.2 lumens/watt
Spacing Criteria (0/90/45): 2.28 / 0.42 / 1.12
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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
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	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	77	72	91	83	77	72	80	75	71	78	74	70	76	73	69	68		
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63	61		
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	57	55		
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	50		
8	71	59	52	47	69	59	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°	12658	12658	12658	12658	12658
5°	27523	19397	11635	5290	3873
10°	68518	34259	8202	1067	0
15°	482118	46946	4725	0	0
20°	1666286	78918	1869	0	0
25°	2568419	100828	779	0	0
30°	2948043	77916	0	0	0
35°	2692377	29602	0	0	0
40°	1614100	13759	0	0	0
45°	396637	6454	0	0	0
50°	43753	1634	0	0	0
55°	6125	0	601	0	0
60°	0	0	1412	0	0
65°	0	0	1671	0	0
70°	0	1007	3072	0	0
75°	0	1331	4059	0	0
80°	0	1984	6050	0	0
85°	0	3952	12054	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 1°

Vertical Angle: 45°

Luminance: 422990 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.3	0.4
10°-20°	160.3	7.8
20°-30°	810.6	39.5
30°-40°	877.0	42.7
40°-50°	185.2	9.0
50°-60°	5.6	0.3
60°-70°	1.3	0.1
70°-80°	1.9	0.1
80°-90°	1.7	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°	979.2	47.7
0°-40°	1856.3	90.5
0°-60°	2047.1	99.8
0°-90°	2052.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2052.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	74	74	74	74	74	
5°	159	112	67	31	22	22
15°	2704	263	26	0	0	1127
25°	13516	531	4	0	0	6109
35°	12806	141	0	0	0	7551
45°	1628	26	0	0	0	1791
55°	20	0	2	0	0	36
65°	0	0	4	0	0	0
75°	0	2	6	0	0	0
85°	0	2	6	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°	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5
2.5°	100.0	98.0	100.0	98.0	100.0	100.0	100.0	98.0	98.0	98.0	98.0
5°	159.2	159.2	157.1	159.2	159.2	159.2	159.2	157.1	157.1	155.1	155.1
7.5°	251.0	251.0	249.0	249.0	251.0	253.1	244.9	249.0	249.0	249.0	246.9
10°	391.8	400.0	391.8	402.0	393.9	387.7	398.0	387.7	387.7	385.7	379.6
12.5°	987.7	965.3	951.0	916.3	951.0	924.5	930.6	924.5	904.1	877.5	861.2
15°	2704.0	2704.0	2624.5	2730.6	2653.0	2681.6	2534.7	2536.7	2461.2	2379.6	2334.7
17.5°	5653.0	5704.0	5650.9	5618.3	5548.9	5448.9	5408.1	5304.0	5167.3	5008.1	4989.7
20°	9091.7	8877.4	8977.4	8885.6	8828.4	8706.0	8569.3	8483.5	8363.1	8161.1	7863.1
21°	10173.3	10165.2	10163.1	10161.1	10077.4	9877.4	9752.9	9581.5	9412.1	9203.9	8955.0
22°	11263.1	11301.9	11318.2	11199.8	11028.4	10938.6	10852.9	10618.2	10350.9	10242.7	9946.8
23°	12263.1	12226.3	12120.2	12065.1	11932.5	11905.9	11650.8	11501.9	11240.7	11122.3	10771.3
24°	12944.7	12926.3	12877.4	12795.7	12689.6	12526.3	12373.3	12138.6	11924.3	11730.4	11403.9
25°	13516.1	13532.5	13442.7	13387.6	13273.3	13089.6	12901.9	12644.7	12444.7	12218.2	11840.6
26°	14081.4	13967.1	13895.7	13814.1	13689.6	13479.4	13297.8	13067.2	12824.3	12571.2	12201.9
27°	14430.4	14328.4	14220.2	14140.6	13997.8	13797.8	13603.9	13348.8	13077.4	12822.3	12442.7
28°	14705.9	14593.7	14487.5	14391.6	14228.4	14014.1	13781.4	13522.2	13240.6	12977.4	12589.6
29°	14869.2	14736.5	14622.2	14514.1	14365.1	14132.4	13897.8	13620.2	13348.8	13073.3	12677.4
30°	14824.3	14710.0	14599.8	14489.6	14338.6	14120.2	13887.5	13622.2	13348.8	13077.4	12675.3
31°	14648.8	14507.9	14428.4	14318.2	14187.5	13965.1	13765.1	13475.3	13228.4	12934.5	12532.5
32°	14312.0	14222.2	14116.1	14030.4	13903.9	13667.1	13471.2	13234.5	12942.7	12701.9	12279.4
33°	13854.9	13771.2	13718.2	13618.2	13495.7	13332.5	13097.8	12881.4	12552.9	12305.9	11883.5
34°	13418.2	13312.0	13179.4	13150.8	13044.7	12834.5	12622.3	12401.9	12108.0	11793.7	11367.2
35°	12805.9	12695.7	12573.3	12583.5	12457.0	12212.1	11995.7	11748.8	11469.2	11099.8	10695.8
36°	11987.6	11914.1	11895.7	11846.8	11701.9	11410.0	11203.9	10893.7	10659.0	10208.0	9861.1
37°	10989.6	11016.2	10883.5	10820.2	10650.9	10446.8	10330.5	9932.5	9659.0	9320.3	8850.9
38°	9981.5	9942.7	9785.6	9824.3	9591.7	9379.5	9050.9	8814.2	8508.0	8193.8	7818.3
39°	8722.3	8626.4	8438.7	8446.8	8271.3	8032.5	7714.2	7434.6	7250.9	6948.9	6589.7
40°	7179.5	7138.7	7073.4	6965.2	6734.6	6630.5	6346.8	6044.8	5889.7	5471.3	5295.8
42.5°	3983.6	3928.5	3818.3	3779.5	3657.1	3534.6	3369.3	3167.3	3069.3	2944.9	2667.3
45°	1628.5	1736.7	1710.2	1679.6	1585.7	1591.8	1473.4	1487.7	1379.6	1306.1	1255.1
47.5°	359.2	389.8	391.8	377.5	391.8	379.6	373.5	363.3	365.3	371.4	357.1
50°	163.3	161.2	165.3	163.3	161.2	159.2	157.1	151.0	155.1	151.0	146.9
52.5°	63.3	65.3	65.3	61.2	63.3	63.3	63.3	61.2	61.2	61.2	61.2
55°	20.4	20.4	20.4	18.4	18.4	20.4	20.4	20.4	20.4	20.4	18.4
57.5°	2.0	4.1	2.0	4.1	2.0	2.0	2.0	2.0	2.0	4.1	4.1
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°	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5
2.5°	93.9	85.7	79.6	73.5	61.2	51.0	46.9	46.9
5°	144.9	112.2	83.7	67.3	46.9	30.6	24.5	22.4
7.5°	218.4	151.0	87.8	57.1	30.6	16.3	10.2	8.2
10°	316.3	195.9	91.8	46.9	18.4	6.1	0.0	0.0
12.5°	553.1	234.7	91.8	36.7	8.2	0.0	0.0	0.0
15°	1267.3	263.3	87.8	26.5	2.0	0.0	0.0	0.0
17.5°	2632.6	330.6	77.5	18.4	0.0	0.0	0.0	0.0
20°	4204.0	430.6	61.2	10.2	0.0	0.0	0.0	0.0
21°	4850.9	465.3	55.1	8.2	0.0	0.0	0.0	0.0
22°	5316.2	498.0	49.0	6.1	0.0	0.0	0.0	0.0
23°	5828.5	518.4	42.9	4.1	0.0	0.0	0.0	0.0
24°	6206.0	530.6	36.7	4.1	0.0	0.0	0.0	0.0
25°	6440.7	530.6	32.7	4.1	0.0	0.0	0.0	0.0
26°	6579.5	518.4	28.6	2.0	0.0	0.0	0.0	0.0
27°	6612.1	498.0	24.5	2.0	0.0	0.0	0.0	0.0
28°	6571.3	471.4	20.4	0.0	0.0	0.0	0.0	0.0
29°	6442.8	432.6	18.4	0.0	0.0	0.0	0.0	0.0
30°	6304.0	391.8	14.3	0.0	0.0	0.0	0.0	0.0
31°	6067.3	336.7	12.2	0.0	0.0	0.0	0.0	0.0
32°	5793.8	279.6	10.2	0.0	0.0	0.0	0.0	0.0
33°	5428.5	220.4	8.2	0.0	0.0	0.0	0.0	0.0
34°	4889.7	173.5	8.2	0.0	0.0	0.0	0.0	0.0
35°	4406.1	140.8	6.1	0.0	0.0	0.0	0.0	0.0
36°	3773.4	112.2	6.1	0.0	0.0	0.0	0.0	0.0
37°	3232.6	93.9	6.1	0.0	0.0	0.0	0.0	0.0
38°	2706.1	79.6	4.1	0.0	0.0	0.0	0.0	0.0
39°	2195.9	69.4	4.1	0.0	0.0	0.0	0.0	0.0
40°	1751.0	61.2	4.1	0.0	0.0	0.0	0.0	0.0
42.5°	944.9	40.8	0.0	0.0	0.0	0.0	0.0	0.0
45°	522.4	26.5	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	230.6	14.3	0.0	0.0	0.0	0.0	0.0	0.0
50°	77.5	6.1	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	38.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	18.4	0.0	0.0	2.0	0.0	0.0	0.0	0.0
57.5°	4.1	0.0	0.0	2.0	0.0	0.0	0.0	0.0
60°	0.0	0.0	2.0	4.1	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	2.0	4.1	2.0	0.0	0.0	0.0
65°	0.0	0.0	4.1	4.1	2.0	0.0	0.0	0.0
67.5°	0.0	2.0	4.1	6.1	2.0	0.0	0.0	0.0
70°	0.0	2.0	4.1	6.1	2.0	0.0	0.0	0.0
72.5°	0.0	2.0	4.1	6.1	2.0	0.0	0.0	0.0
75°	0.0	2.0	4.1	6.1	2.0	0.0	0.0	0.0
77.5°	0.0	2.0	4.1	6.1	2.0	0.0	0.0	0.0
80°	0.0	2.0	4.1	6.1	2.0	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°
82.5°	0.0	2.0	4.1	6.1	2.0	0.0	0.0	0.0
85°	0.0	2.0	4.1	6.1	2.0	0.0	0.0	0.0
87.5°	0.0	2.0	4.1	6.1	2.0	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)