

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: P1311734

Luminaire Tested: P3SQAS24R209050D010 E3SQCA301MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1311734
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-60)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS24R209050D010 E3SQCA301MW
Description: 3in Adjustable LED luminaire with, R20 optic, 5000K CCT AND, 90CRI , E3SQCA301MW TRIM
Light Source: -
Ballast/Driver: -

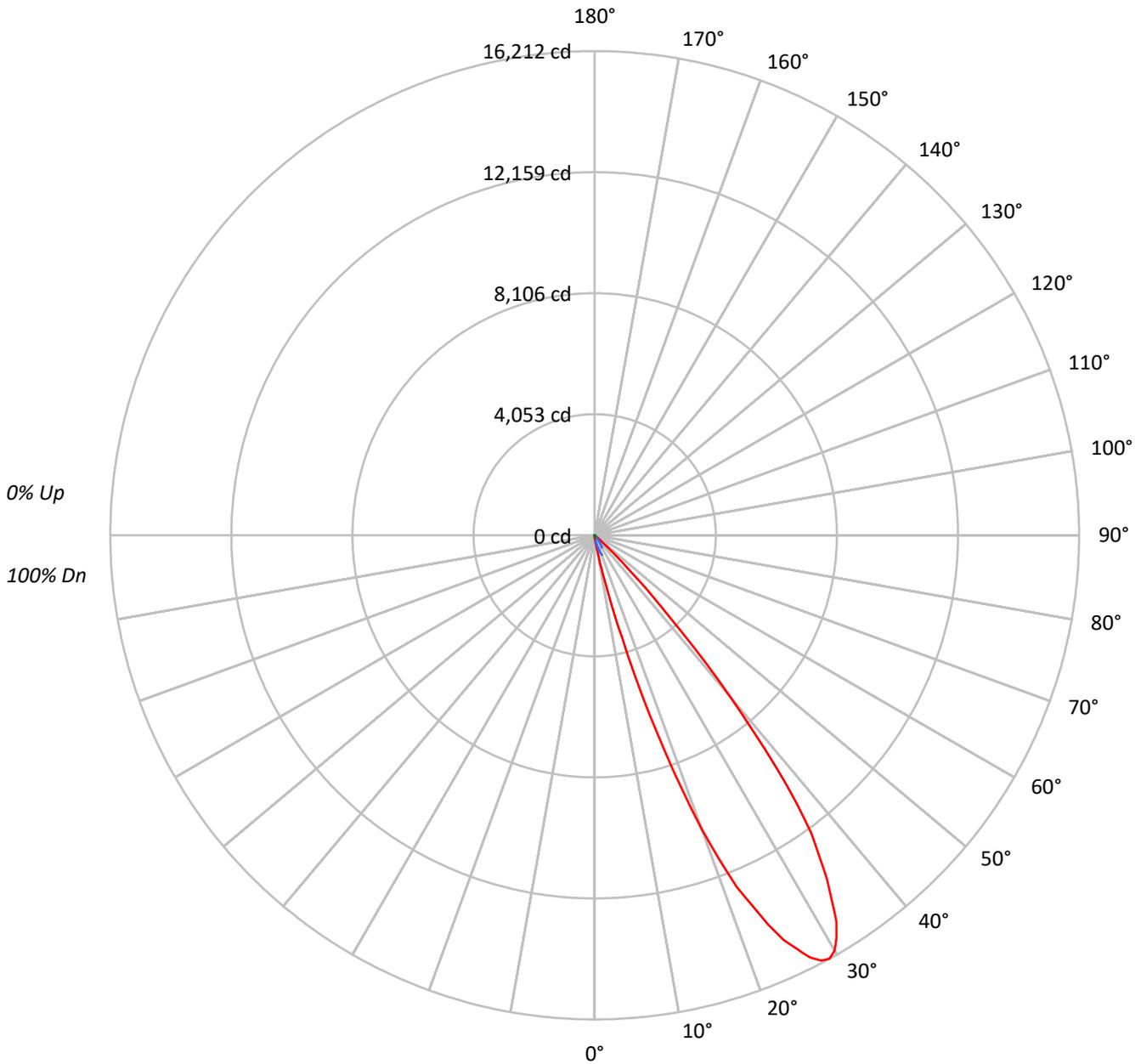
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2274.1 lumens
Efficiency: N/A
Efficacy: 79.0 lumens/watt
Spacing Criteria (0/90/45): 2.3 / 0.53 / 1.19
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 (A_{in}): 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

TEST NUMBER: P1311734
CATALOG NUMBER: P3SQAS24R209050D010 E3SQCA301MW

Luminous Intensity Polar Plot



— 0°-180° - - - 45°-225° ····· 90°-270°



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 CATALOG NUMBER: P3SQAS24R209050D010 E3SQCA301MW

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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	102	100
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	96	95	93	92
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	89	87	85	83
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	83	80	77	75
4	93	84	78	73	91	83	77	72	81	76	71	79	74	71	77	73	70	77	73	70	68
5	87	77	70	65	85	76	70	65	74	69	64	72	68	64	71	67	63	71	67	63	61
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	65	61	57	55
7	76	65	58	53	74	64	57	53	63	57	52	62	56	52	60	55	52	60	55	52	50
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	56	51	47	45
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	43	51	46	43	41
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	48	42	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	13502	13502	13502	13502	13502
5°	31032	23183	12845	7849	6777
10°	97775	40415	10458	4337	3253
15°	633421	74671	7720	1480	374
20°	1911710	127798	5297	0	0
25°	2839131	128971	3135	0	0
30°	3192727	98061	1233	0	0
35°	2754735	58553	862	0	0
40°	1586267	19942	0	0	0
45°	386919	8037	511	0	511
50°	46432	2224	563	563	1661
55°	6185	0	1231	1231	2492
60°	723	0	2136	2136	3548
65°	856	856	3382	3382	5053
70°	1057	1057	4179	4179	5187
75°	0	1397	5523	4126	5523
80°	0	2083	6149	4066	6149
85°	0	4150	12251	4150	4150

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°
 Vertical Angle: 45°
 Luminance: 389427 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.5	0.5
10°-20°	210.7	9.3
20°-30°	918.6	40.4
30°-40°	925.0	40.7
40°-50°	185.6	8.2
50°-60°	9.3	0.4
60°-70°	6.1	0.3
70°-80°	5.4	0.2
80°-90°	2.8	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°	1139.8	50.1
0°-40°	2064.8	90.8
0°-60°	2259.7	99.4
0°-90°	2274.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2274.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	78	78	78	78	78	
5°	180	134	74	45	39	28
15°	3553	419	43	8	2	1391
25°	14941	679	16	0	0	6737
35°	13102	278	4	0	0	7796
45°	1589	33	2	0	2	1730
55°	21	0	4	4	8	38
65°	2	2	8	8	12	2
75°	0	2	8	6	8	1
85°	0	2	6	2	2	0
90°	0	0	0	0	0	



TEST NUMBER: P1311734
 CATALOG NUMBER: P3SQAS24R209050D010 E3SQCA301MW

CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4
2.5°	117.6	117.6	115.5	115.5	113.5	115.5	111.4	113.5	113.5	111.4	101.1
5°	179.5	183.6	181.5	181.5	179.5	181.5	177.4	173.3	169.2	169.2	134.1
7.5°	295.0	293.0	288.8	290.9	284.7	280.6	276.4	274.4	262.0	255.8	175.4
10°	559.1	571.5	561.2	559.1	522.0	519.9	495.1	460.1	429.1	412.6	231.1
12.5°	1539.0	1605.1	1501.9	1452.4	1423.5	1312.1	1264.7	1142.9	1025.3	936.6	293.0
15°	3552.6	3715.6	3507.2	3521.6	3348.3	3030.6	2752.1	2512.8	2230.2	1945.5	418.8
17.5°	6960.8	6828.7	6715.3	6523.4	6170.6	5704.4	5104.0	4495.4	3969.3	3418.5	583.8
20°	10430.8	10313.2	10055.3	9636.5	9186.8	8495.7	7781.9	6867.9	5982.9	5153.5	697.3
21°	11625.3	11586.1	11163.2	10905.3	10212.1	9552.0	8728.8	7750.9	6754.4	5772.4	715.9
22°	12691.9	12456.7	12229.8	11848.1	11159.1	10441.1	9525.1	8495.7	7414.6	6323.3	717.9
23°	13430.5	13323.2	13108.7	12677.5	11992.6	11148.8	10183.2	9106.3	7967.5	6713.2	711.8
24°	14247.5	14111.3	13797.7	13294.3	12603.2	11769.7	10668.1	9599.4	8361.6	7041.2	695.3
25°	14940.7	14728.2	14356.8	13814.2	13059.2	12198.9	11091.0	9917.1	8636.0	7262.0	678.7
26°	15390.4	15274.9	14798.3	14208.3	13399.6	12512.4	11381.9	10160.6	8813.4	7363.1	651.9
27°	15858.7	15646.2	15177.9	14499.2	13622.4	12716.7	11546.9	10278.1	8875.3	7367.2	618.9
28°	16126.9	15895.9	15365.6	14651.8	13766.8	12830.2	11641.8	10315.3	8862.9	7303.2	579.7
29°	16211.5	15920.6	15402.8	14676.6	13801.9	12838.4	11627.4	10261.6	8753.6	7146.4	534.3
30°	16054.7	15757.6	15266.6	14559.0	13690.4	12735.3	11493.3	10084.2	8559.6	6921.6	493.1
31°	15712.2	15460.5	14986.0	14276.4	13442.9	12493.9	11190.0	9793.3	8229.5	6620.3	445.6
32°	15260.4	15012.9	14546.6	13905.0	13057.1	12099.8	10775.3	9339.5	7841.7	6170.6	398.2
33°	14581.7	14439.3	14020.5	13407.8	12559.9	11536.6	10218.3	8796.9	7288.8	5671.3	356.9
34°	13894.7	13715.2	13422.2	12751.8	11839.9	10818.7	9492.1	8048.0	6614.2	5112.3	317.7
35°	13102.5	12995.2	12535.1	11998.7	11082.7	10038.8	8720.5	7319.7	5828.1	4489.2	278.5
36°	12335.0	12170.0	11646.0	11078.6	10189.4	9060.9	7759.2	6442.9	5149.4	3905.4	237.3
37°	11221.0	10969.3	10595.9	9997.6	8957.8	7996.4	6808.1	5586.8	4313.9	3274.1	191.9
38°	9910.9	9793.3	9275.5	8673.1	7812.8	6900.9	5725.0	4689.3	3558.8	2733.6	146.5
39°	8365.7	8363.6	7868.5	7433.2	6591.5	5770.4	4710.0	3806.3	2937.8	2201.3	113.5
40°	7055.7	6812.2	6506.9	5960.2	5314.4	4617.1	3688.7	2979.1	2279.7	1774.2	88.7
42.5°	3699.1	3678.4	3498.9	3088.4	2727.4	2316.8	1842.3	1534.9	1200.7	977.9	55.7
45°	1588.6	1598.9	1475.1	1413.2	1272.9	1101.7	930.4	775.7	664.3	538.5	33.0
47.5°	402.3	385.8	381.7	396.1	396.1	383.7	344.5	323.9	299.1	274.4	18.6
50°	173.3	169.2	165.0	165.0	154.7	148.5	138.2	125.8	115.5	103.2	8.3
52.5°	64.0	66.0	68.1	66.0	66.0	64.0	64.0	61.9	55.7	49.5	4.1
55°	20.6	20.6	20.6	22.7	22.7	24.8	24.8	24.8	24.8	22.7	0.0
57.5°	4.1	4.1	6.2	6.2	6.2	6.2	6.2	6.2	8.3	8.3	0.0
60°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	0.0	0.0	0.0	0.0
62.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
65°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
67.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
70°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
72.5°	2.1	0.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
75°	0.0	0.0	0.0	2.1	0.0	2.1	2.1	0.0	2.1	2.1	2.1
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	2.1
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1



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CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1
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):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	78.4	78.4	78.4	78.4	78.4	78.4
2.5°	90.8	80.5	68.1	57.8	55.7	53.6
5°	101.1	74.3	55.7	45.4	41.3	39.2
7.5°	109.3	68.1	45.4	33.0	28.9	26.8
10°	113.5	59.8	37.1	24.8	18.6	18.6
12.5°	115.5	51.6	26.8	16.5	10.3	10.3
15°	113.5	43.3	20.6	8.3	2.1	2.1
17.5°	103.2	35.1	12.4	2.1	0.0	0.0
20°	88.7	28.9	8.3	0.0	0.0	0.0
21°	84.6	24.8	6.2	0.0	0.0	0.0
22°	78.4	22.7	4.1	0.0	0.0	0.0
23°	72.2	20.6	4.1	0.0	0.0	0.0
24°	66.0	18.6	2.1	0.0	0.0	0.0
25°	61.9	16.5	2.1	0.0	0.0	0.0
26°	57.8	14.4	2.1	0.0	0.0	0.0
27°	51.6	12.4	0.0	0.0	0.0	0.0
28°	47.5	10.3	0.0	0.0	0.0	0.0
29°	41.3	8.3	0.0	0.0	0.0	0.0
30°	35.1	6.2	0.0	0.0	0.0	0.0
31°	28.9	6.2	0.0	0.0	0.0	0.0
32°	24.8	4.1	0.0	0.0	0.0	0.0
33°	20.6	4.1	0.0	0.0	0.0	0.0
34°	18.6	4.1	0.0	0.0	0.0	0.0
35°	16.5	4.1	0.0	0.0	0.0	0.0
36°	12.4	2.1	0.0	0.0	0.0	0.0
37°	10.3	2.1	0.0	0.0	0.0	0.0
38°	8.3	2.1	0.0	0.0	0.0	0.0
39°	6.2	0.0	0.0	0.0	0.0	0.0
40°	6.2	0.0	0.0	0.0	0.0	0.0
42.5°	2.1	0.0	0.0	0.0	0.0	0.0
45°	0.0	2.1	0.0	0.0	2.1	2.1
47.5°	0.0	2.1	0.0	0.0	2.1	4.1
50°	0.0	2.1	2.1	2.1	4.1	6.2
52.5°	0.0	4.1	2.1	2.1	6.2	6.2
55°	2.1	4.1	2.1	4.1	8.3	8.3
57.5°	2.1	4.1	4.1	6.2	8.3	10.3
60°	4.1	6.2	6.2	6.2	10.3	10.3
62.5°	4.1	6.2	8.3	8.3	10.3	12.4
65°	4.1	8.3	8.3	8.3	10.3	12.4
67.5°	6.2	8.3	8.3	8.3	10.3	12.4
70°	6.2	8.3	8.3	8.3	10.3	10.3
72.5°	6.2	8.3	6.2	8.3	8.3	10.3
75°	6.2	8.3	6.2	6.2	8.3	8.3
77.5°	4.1	6.2	6.2	4.1	6.2	6.2
80°	4.1	6.2	4.1	4.1	6.2	6.2



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	4.1	6.2	4.1	2.1	4.1	4.1
85°	4.1	6.2	4.1	2.1	2.1	2.1
87.5°	4.1	6.2	4.1	2.1	0.0	2.1
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)