

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: P1307286

Luminaire Tested: P3SQAS24R159027D010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1307286
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: P3SQAS24R159027D010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R15 optic, 2700K CCT AND, 90CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

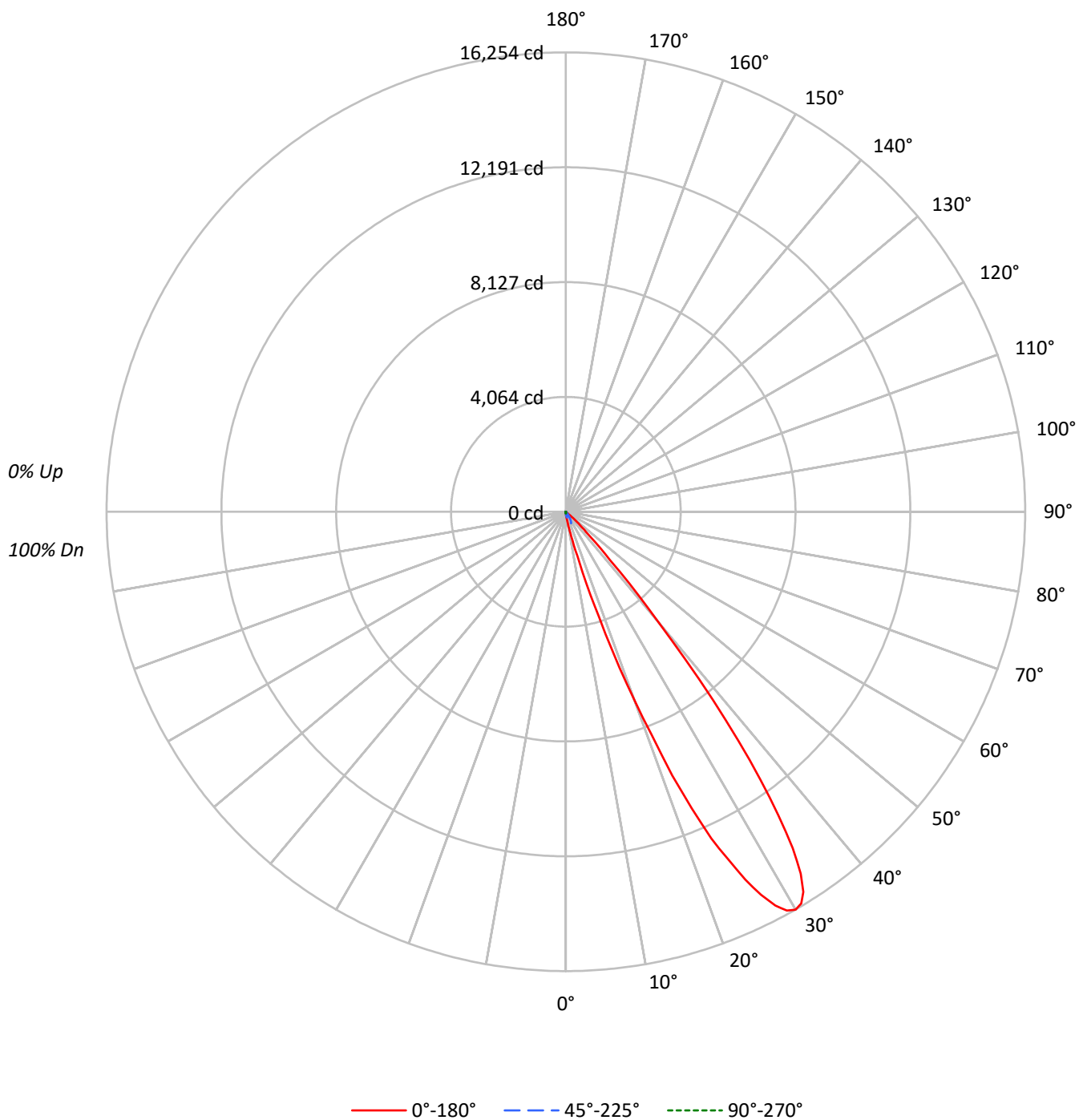
Lumens per Lamp: N/A
Luminaire Lumens: 1719.0 lumens
Efficiency: N/A
Efficacy: 59.7 lumens/watt
Spacing Criteria (0/90/45): 2.33 / 0.38 / 1.17
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	10592	10592	10592	10592	10592
5°	30617	23131	9059	3752	2507
10°	79658	34451	5998	0	0
15°	318422	56396	3227	0	0
20°	1300981	83152	990	0	0
25°	2571764	82434	0	0	0
30°	3232381	65069	0	0	0
35°	2757973	39905	0	0	0
40°	1135457	12590	0	0	0
45°	245679	5285	0	0	0
50°	31482	0	0	0	0
55°	2702	0	540	0	0
60°	0	0	1240	0	0
65°	0	0	1467	0	0
70°	0	906	2719	0	0
75°	0	1198	3593	0	0
80°	0	1785	5356	0	0
85°	0	3557	10671	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2°

Vertical Angle: 45°

Luminance: 257126 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.2	0.5
10°-20°	120.5	7.0
20°-30°	702.2	40.8
30°-40°	752.9	43.8
40°-50°	127.1	7.4
50°-60°	3.8	0.2
60°-70°	1.1	0.1
70°-80°	1.7	0.1
80°-90°	1.5	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°	830.9	48.3
0°-40°	1583.8	92.1
0°-60°	1714.7	99.8
0°-90°	1719.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1719.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	62	62	62	62	62	
5°	177	134	52	22	14	24
15°	1786	316	18	0	0	826
25°	13534	434	0	0	0	6123
35°	13118	190	0	0	0	7539
45°	1009	22	0	0	0	1192
55°	9	0	2	0	0	23
65°	0	0	4	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°	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5
2.5°	112.1	113.9	115.7	115.7	115.7	115.7	113.9	113.9	113.9	113.9	112.1
5°	177.1	177.1	177.1	177.1	177.1	177.1	175.3	175.3	175.3	175.3	175.3
7.5°	253.1	249.5	251.3	245.8	249.5	247.6	245.8	249.5	249.5	240.4	240.4
10°	455.5	453.7	435.6	439.3	442.9	441.1	441.1	430.2	428.4	421.2	413.9
12.5°	878.5	898.4	912.8	912.8	878.5	891.2	867.7	873.1	876.7	865.9	827.9
15°	1785.9	1818.5	1784.1	1816.7	1804.0	1757.0	1704.6	1634.1	1661.2	1612.4	1596.1
17.5°	3911.7	3985.8	3955.1	3805.0	3853.8	3738.2	3665.9	3638.7	3562.8	3336.9	3242.9
20°	7098.5	7188.9	7104.0	6928.6	6984.6	6765.9	6709.9	6657.5	6321.3	6198.3	5804.3
21°	8439.8	8513.9	8546.4	8363.9	8251.8	8078.3	7933.7	7886.7	7682.4	7445.6	7040.7
22°	10059.4	9972.6	9777.4	9802.7	9636.4	9493.6	9293.0	9103.2	8875.4	8544.6	8210.2
23°	11400.7	11299.4	11207.3	11095.2	10916.2	10815.0	10527.6	10319.7	10023.3	9669.0	9347.2
24°	12649.7	12494.3	12436.4	12237.6	12187.0	11959.2	11726.0	11454.9	11097.0	10719.2	10363.1
25°	13533.7	13557.2	13506.5	13483.0	13224.6	12991.4	12760.0	12342.4	12037.0	11702.5	11154.8
26°	14480.9	14491.7	14466.4	14292.9	14059.7	13831.9	13533.7	13170.3	12727.5	12356.9	11861.6
27°	15205.7	15162.3	15126.2	14920.1	14728.5	14441.1	14169.9	13739.7	13307.7	12866.7	12291.8
28°	15784.2	15702.8	15657.6	15480.5	15256.3	14903.8	14571.2	14169.9	13737.9	13264.3	12642.5
29°	16133.0	16046.3	15995.6	15800.4	15541.9	15232.8	14896.6	14455.5	13991.0	13463.2	12837.7
30°	16254.1	16203.5	16124.0	15921.5	15654.0	15332.2	14987.0	14508.0	14021.7	13481.2	12819.7
31°	16174.6	16109.5	16033.6	15814.9	15525.7	15218.4	14817.1	14314.6	13803.0	13287.8	12586.5
32°	15858.3	15818.5	15726.3	15433.5	15198.5	14800.8	14404.9	13935.0	13376.4	12823.3	12188.8
33°	15265.4	15200.3	15120.8	14853.2	14553.2	14171.8	13777.7	13296.9	12741.9	12158.1	11460.3
34°	14361.6	14278.4	14179.0	14000.0	13616.8	13286.0	12830.5	12268.3	11809.2	11248.8	10618.0
35°	13117.9	12996.8	12877.5	12741.9	12311.7	12006.2	11698.9	11209.1	10766.2	10238.4	9524.4
36°	11722.4	11675.4	11577.8	11219.9	11080.7	10665.0	10417.3	9855.2	9497.2	8980.3	8391.0
37°	10144.4	9867.8	10008.8	9808.2	9388.8	9258.6	8964.0	8481.4	8094.5	7548.6	7122.0
38°	8452.4	8271.7	8371.1	8168.6	7949.9	7649.9	7425.7	7073.2	6639.4	6211.0	5806.1
39°	6699.0	6552.6	6661.1	6523.7	6191.1	6066.4	5867.5	5598.2	5249.3	4914.9	4531.7
40°	5050.5	4862.5	5007.1	4811.9	4660.0	4455.8	4354.6	4106.9	3890.0	3689.4	3445.3
42.5°	2306.5	2286.6	2254.1	2183.6	2167.3	2169.1	2044.4	1963.1	1852.8	1724.5	1646.7
45°	1008.7	1034.0	1055.7	1015.9	1014.1	992.4	985.2	930.9	909.2	867.7	817.0
47.5°	497.1	506.1	500.7	511.6	502.5	488.1	484.4	477.2	455.5	453.7	430.2
50°	117.5	115.7	115.7	117.5	115.7	115.7	113.9	110.3	108.5	110.3	104.8
52.5°	38.0	39.8	38.0	36.2	38.0	39.8	38.0	38.0	38.0	38.0	38.0
55°	9.0	9.0	9.0	9.0	9.0	9.0	7.2	7.2	9.0	9.0	9.0
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°	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5
2.5°	110.3	94.0	77.7	61.5	45.2	36.2	34.3	32.5
5°	166.3	133.8	88.6	52.4	30.7	21.7	16.3	14.5
7.5°	224.1	166.3	97.6	43.4	21.7	9.0	3.6	1.8
10°	321.8	197.0	101.2	34.3	10.8	0.0	0.0	0.0
12.5°	630.9	226.0	99.4	27.1	1.8	0.0	0.0	0.0
15°	1048.4	316.3	92.2	18.1	0.0	0.0	0.0	0.0
17.5°	1717.2	408.5	79.5	12.7	0.0	0.0	0.0	0.0
20°	2662.6	453.7	61.5	5.4	0.0	0.0	0.0	0.0
21°	3121.8	457.3	54.2	3.6	0.0	0.0	0.0	0.0
22°	3519.4	457.3	47.0	1.8	0.0	0.0	0.0	0.0
23°	3888.2	451.9	41.6	0.0	0.0	0.0	0.0	0.0
24°	4191.9	444.7	38.0	0.0	0.0	0.0	0.0	0.0
25°	4419.6	433.8	34.3	0.0	0.0	0.0	0.0	0.0
26°	4524.5	419.4	28.9	0.0	0.0	0.0	0.0	0.0
27°	4576.9	399.5	25.3	0.0	0.0	0.0	0.0	0.0
28°	4540.7	377.8	21.7	0.0	0.0	0.0	0.0	0.0
29°	4450.4	354.3	16.3	0.0	0.0	0.0	0.0	0.0
30°	4332.9	327.2	12.7	0.0	0.0	0.0	0.0	0.0
31°	4161.1	300.1	9.0	0.0	0.0	0.0	0.0	0.0
32°	3926.2	273.0	7.2	0.0	0.0	0.0	0.0	0.0
33°	3611.6	244.0	3.6	0.0	0.0	0.0	0.0	0.0
34°	3223.0	215.1	1.8	0.0	0.0	0.0	0.0	0.0
35°	2787.4	189.8	0.0	0.0	0.0	0.0	0.0	0.0
36°	2413.2	162.7	0.0	0.0	0.0	0.0	0.0	0.0
37°	2037.2	130.1	0.0	0.0	0.0	0.0	0.0	0.0
38°	1706.4	103.0	0.0	0.0	0.0	0.0	0.0	0.0
39°	1411.8	83.2	0.0	0.0	0.0	0.0	0.0	0.0
40°	1169.5	56.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	647.1	38.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	392.3	21.7	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	227.8	7.2	0.0	0.0	0.0	0.0	0.0	0.0
50°	86.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	28.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	7.2	0.0	0.0	1.8	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	1.8	0.0	0.0	0.0	0.0
60°	0.0	0.0	1.8	3.6	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	1.8	3.6	1.8	0.0	0.0	0.0
65°	0.0	0.0	3.6	3.6	1.8	0.0	0.0	0.0
67.5°	0.0	0.0	3.6	5.4	1.8	0.0	0.0	0.0
70°	0.0	1.8	3.6	5.4	1.8	0.0	0.0	0.0
72.5°	0.0	1.8	3.6	5.4	1.8	0.0	0.0	0.0
75°	0.0	1.8	3.6	5.4	1.8	0.0	0.0	0.0
77.5°	0.0	1.8	3.6	5.4	1.8	0.0	0.0	0.0
80°	0.0	1.8	3.6	5.4	1.8	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	1.8	3.6	5.4	1.8	0.0	0.0	0.0
85°	0.0	1.8	3.6	5.4	1.8	0.0	0.0	0.0
87.5°	0.0	1.8	3.6	5.4	1.8	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)