

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: P1307302

Luminaire Tested: P3SQAS24R209027D010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1307302
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: P3SQAS24R209027D010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R20 optic, 2700K CCT AND, 90CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

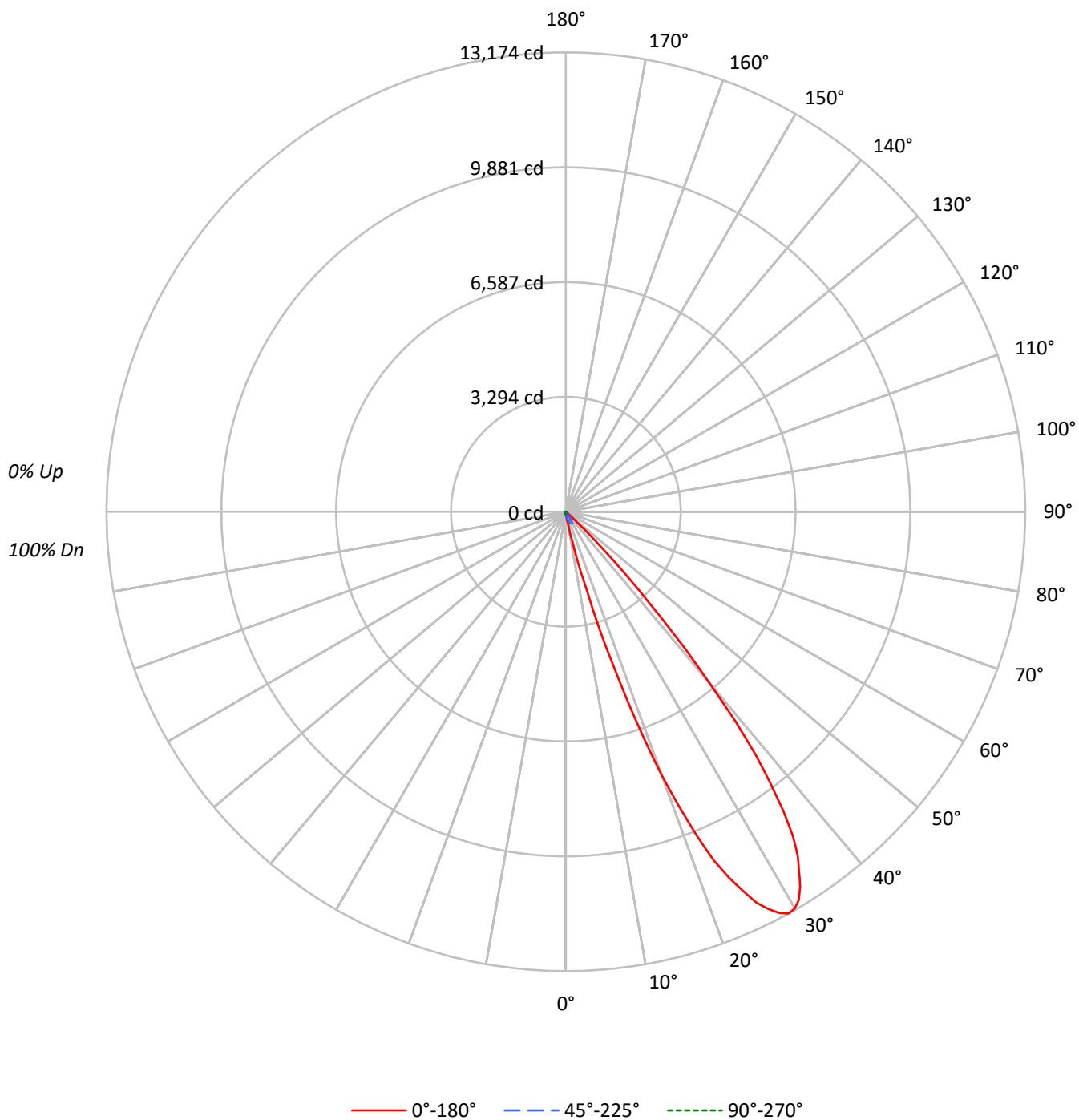
Lumens per Lamp: N/A
Luminaire Lumens: 1818.0 lumens
Efficiency: N/A
Efficacy: 63.1 lumens/watt
Spacing Criteria (0/90/45): 2.28 / 0.42 / 1.12
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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			0
RW	70	50	30	10	70	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	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°	11212	11212	11212	11212	11212
5°	24376	17184	10321	4685	3440
10°	60701	30359	7275	944	0
15°	427149	41579	4190	0	0
20°	1476266	69920	1649	0	0
25°	2275531	89332	684	0	0
30°	2611861	69026	0	0	0
35°	2385356	26239	0	0	0
40°	1430039	12185	0	0	0
45°	351408	5724	0	0	0
50°	38743	1447	0	0	0
55°	5435	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: 1°

Vertical Angle: 45°

Luminance: 374765 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.4	0.4
10°-20°	142.0	7.8
20°-30°	718.2	39.5
30°-40°	777.0	42.7
40°-50°	164.1	9.0
50°-60°	4.9	0.3
60°-70°	1.2	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°	867.6	47.7
0°-40°	1644.6	90.5
0°-60°	1813.6	99.8
0°-90°	1818.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1818.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	65	65	65	65	65	
5°	141	99	60	27	20	20
15°	2396	233	24	0	0	999
25°	11975	470	4	0	0	5413
35°	11346	125	0	0	0	6690
45°	1443	24	0	0	0	1587
55°	18	0	2	0	0	32
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°	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1
2.5°	88.6	86.8	88.6	86.8	88.6	88.6	88.6	86.8	86.8	86.8	86.8
5°	141.0	141.0	139.2	141.0	141.0	141.0	141.0	139.2	139.2	137.4	137.4
7.5°	222.4	222.4	220.6	220.6	222.4	224.2	217.0	220.6	220.6	220.6	218.8
10°	347.1	354.4	347.1	356.2	349.0	343.5	352.6	343.5	343.5	341.7	336.3
12.5°	875.1	855.2	842.6	811.8	842.6	819.1	824.5	819.1	801.0	777.5	763.0
15°	2395.7	2395.7	2325.2	2419.2	2350.5	2375.8	2245.6	2247.4	2180.5	2108.2	2068.4
17.5°	5008.3	5053.5	5006.5	4977.6	4916.1	4827.5	4791.4	4699.2	4578.0	4437.0	4420.7
20°	8054.9	7865.1	7953.7	7872.3	7821.7	7713.2	7592.1	7516.1	7409.5	7230.5	6966.5
21°	9013.2	9006.0	9004.2	9002.4	8928.2	8751.0	8640.7	8488.9	8338.8	8154.4	7933.8
22°	9978.7	10013.1	10027.5	9922.7	9770.8	9691.2	9615.3	9407.4	9170.5	9074.7	8812.5
23°	10864.7	10832.1	10738.1	10689.3	10571.8	10548.3	10322.2	10190.3	9958.8	9854.0	9543.0
24°	11468.6	11452.3	11408.9	11336.6	11242.5	11097.9	10962.3	10754.4	10564.5	10392.8	10103.5
25°	11974.8	11989.3	11909.7	11860.9	11759.7	11596.9	11430.6	11202.8	11025.6	10824.9	10490.4
26°	12475.6	12374.4	12311.1	12238.8	12128.5	11942.3	11781.4	11577.0	11361.9	11137.7	10810.4
27°	12784.8	12694.4	12598.6	12528.1	12401.5	12224.3	12052.6	11826.6	11586.1	11360.1	11023.8
28°	13028.9	12929.5	12835.5	12750.5	12605.8	12416.0	12209.9	11980.2	11730.7	11497.5	11154.0
29°	13173.6	13056.0	12954.8	12859.0	12727.0	12520.8	12312.9	12067.0	11826.6	11582.5	11231.7
30°	13133.8	13032.5	12934.9	12837.3	12703.5	12510.0	12303.9	12068.8	11826.6	11586.1	11229.9
31°	12978.3	12853.5	12783.0	12685.4	12569.7	12372.6	12195.4	11938.7	11719.9	11459.5	11103.3
32°	12680.0	12600.4	12506.4	12430.4	12318.3	12108.6	11935.0	11725.3	11466.7	11253.4	10879.1
33°	12275.0	12200.8	12153.8	12065.2	11956.7	11812.1	11604.2	11412.5	11121.4	10902.6	10528.4
34°	11888.0	11794.0	11676.5	11651.2	11557.2	11370.9	11182.9	10987.6	10727.2	10448.8	10070.9
35°	11345.6	11248.0	11139.5	11148.5	11036.4	10819.5	10627.8	10409.0	10161.3	9834.1	9476.1
36°	10620.6	10555.5	10539.2	10495.8	10367.4	10108.9	9926.3	9651.5	9443.5	9043.9	8736.6
37°	9736.4	9759.9	9642.4	9586.4	9436.3	9255.5	9152.4	8799.9	8557.6	8257.4	7841.6
38°	8843.2	8808.9	8669.7	8704.0	8497.9	8309.9	8018.8	7809.0	7537.8	7259.4	6926.7
39°	7727.7	7642.7	7476.3	7483.6	7328.1	7116.5	6834.5	6586.8	6424.1	6156.5	5838.2
40°	6360.8	6324.6	6266.8	6170.9	5966.6	5874.4	5623.1	5355.5	5218.1	4847.4	4691.9
42.5°	3529.3	3480.5	3382.9	3348.5	3240.1	3131.6	2985.1	2806.1	2719.3	2609.0	2363.1
45°	1442.8	1538.7	1515.2	1488.0	1404.9	1410.3	1305.4	1318.1	1222.3	1157.2	1112.0
47.5°	318.2	345.3	347.1	334.5	347.1	336.3	330.9	321.8	323.6	329.1	316.4
50°	144.6	142.8	146.5	144.6	142.8	141.0	139.2	133.8	137.4	133.8	130.2
52.5°	56.1	57.9	57.9	54.2	56.1	56.1	56.1	54.2	54.2	54.2	54.2
55°	18.1	18.1	18.1	16.3	16.3	18.1	18.1	18.1	18.1	18.1	16.3
57.5°	1.8	3.6	1.8	3.6	1.8	1.8	1.8	1.8	1.8	3.6	3.6
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°	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1
2.5°	83.2	75.9	70.5	65.1	54.2	45.2	41.6	41.6
5°	128.4	99.4	74.1	59.7	41.6	27.1	21.7	19.9
7.5°	193.5	133.8	77.7	50.6	27.1	14.5	9.0	7.2
10°	280.3	173.6	81.4	41.6	16.3	5.4	0.0	0.0
12.5°	490.0	207.9	81.4	32.5	7.2	0.0	0.0	0.0
15°	1122.8	233.2	77.7	23.5	1.8	0.0	0.0	0.0
17.5°	2332.4	292.9	68.7	16.3	0.0	0.0	0.0	0.0
20°	3724.6	381.5	54.2	9.0	0.0	0.0	0.0	0.0
21°	4297.8	412.2	48.8	7.2	0.0	0.0	0.0	0.0
22°	4710.0	441.2	43.4	5.4	0.0	0.0	0.0	0.0
23°	5163.8	459.2	38.0	3.6	0.0	0.0	0.0	0.0
24°	5498.3	470.1	32.5	3.6	0.0	0.0	0.0	0.0
25°	5706.3	470.1	28.9	3.6	0.0	0.0	0.0	0.0
26°	5829.2	459.2	25.3	1.8	0.0	0.0	0.0	0.0
27°	5858.1	441.2	21.7	1.8	0.0	0.0	0.0	0.0
28°	5822.0	417.7	18.1	0.0	0.0	0.0	0.0	0.0
29°	5708.1	383.3	16.3	0.0	0.0	0.0	0.0	0.0
30°	5585.1	347.1	12.7	0.0	0.0	0.0	0.0	0.0
31°	5375.4	298.3	10.8	0.0	0.0	0.0	0.0	0.0
32°	5133.1	247.7	9.0	0.0	0.0	0.0	0.0	0.0
33°	4809.5	195.3	7.2	0.0	0.0	0.0	0.0	0.0
34°	4332.1	153.7	7.2	0.0	0.0	0.0	0.0	0.0
35°	3903.6	124.8	5.4	0.0	0.0	0.0	0.0	0.0
36°	3343.1	99.4	5.4	0.0	0.0	0.0	0.0	0.0
37°	2864.0	83.2	5.4	0.0	0.0	0.0	0.0	0.0
38°	2397.5	70.5	3.6	0.0	0.0	0.0	0.0	0.0
39°	1945.5	61.5	3.6	0.0	0.0	0.0	0.0	0.0
40°	1551.3	54.2	3.6	0.0	0.0	0.0	0.0	0.0
42.5°	837.1	36.2	0.0	0.0	0.0	0.0	0.0	0.0
45°	462.9	23.5	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	204.3	12.7	0.0	0.0	0.0	0.0	0.0	0.0
50°	68.7	5.4	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	34.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	16.3	0.0	0.0	1.8	0.0	0.0	0.0	0.0
57.5°	3.6	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	1.8	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)