

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: P1308259

Luminaire Tested: P3SQAS20R159030D010 E3SQCA301MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1308259  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-59)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3SQAS20R159030D010 E3SQCA301MW  
Description: 3in Adjustable LED luminaire with, R15 optic, 3000K CCT AND, 90CRI , E3SQCA301MW TRIM  
Light Source: -  
Ballast/Driver: -

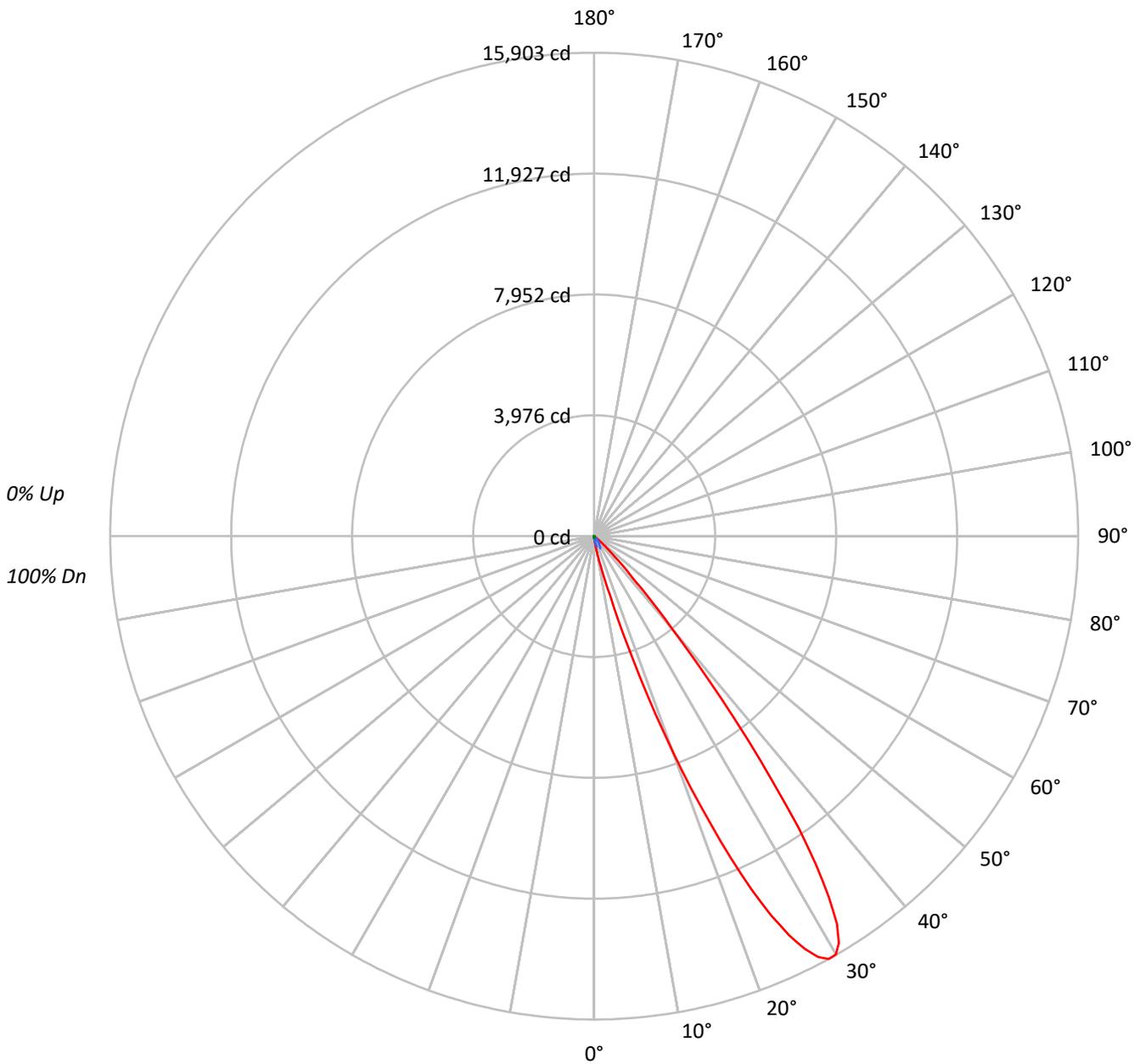
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1737.1 lumens  
Efficiency: N/A  
Efficacy: 60.3 lumens/watt  
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26  
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



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



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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	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	75	71	79	74	70	77	73	70	77	73	70	68
5	87	77	70	65	85	76	70	65	74	69	64	72	67	64	71	66	63	71	66	63	61
6	81	71	64	59	80	70	63	58	68	62	58	67	61	57	65	61	57	65	61	57	55
7	76	65	58	53	74	64	57	53	63	57	52	61	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	42	51	46	42	41
10	62	51	44	39	61	50	43	39	49	43	39	48	43	39	47	42	39	47	42	39	37

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°	135°	180°
0°	9886	9886	9886	9886	9886
5°	21316	15767	9353	4962	4097
10°	94557	29852	7380	2064	1469
15°	357594	68983	5117	909	606
20°	1375263	97246	3097	312	312
25°	2615204	91194	1596	0	0
30°	3159218	73580	676	0	0
35°	2463967	50080	357	0	0
40°	899148	24685	382	0	382
45°	230870	7404	414	0	828
50°	38930	911	455	455	1366
55°	5074	0	1021	1531	2522
60°	586	586	1757	2342	3479
65°	693	693	2771	3423	4116
70°	856	856	3424	3424	4230
75°	1131	1131	4525	3394	4525
80°	0	1686	5058	3372	5058
85°	0	3359	10078	3359	3359

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 230870 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	7.9	0.5
10°-20°	133.1	7.7
20°-30°	738.2	42.5
30°-40°	713.2	41.1
40°-50°	124.1	7.1
50°-60°	8.9	0.5
60°-70°	5.2	0.3
70°-80°	4.3	0.2
80°-90°	2.2	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°	879.2	50.6
0°-40°	1592.4	91.7
0°-60°	1725.4	99.3
0°-90°	1737.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1737.1	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	57	57	57	57	57	
5°	123	91	54	29	24	24
15°	2006	387	29	5	3	894
25°	13762	480	8	0	0	6153
35°	11720	238	2	0	0	6740
45°	948	30	2	0	3	1018
55°	17	0	3	5	8	33
65°	2	2	7	8	10	2
75°	2	2	7	5	7	1
85°	0	2	5	2	2	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
2.5°	84.5	81.1	82.8	82.8	82.8	82.8	82.8	79.4	79.4	81.1	72.7
5°	123.3	123.3	121.7	123.3	123.3	121.7	118.3	116.6	116.6	113.2	91.2
7.5°	246.7	243.3	243.3	239.9	223.0	218.0	214.6	206.1	190.9	187.6	118.3
10°	540.7	542.4	530.6	515.3	513.7	488.3	479.9	464.7	435.9	407.2	170.7
12.5°	981.7	959.7	931.0	932.7	883.7	866.8	827.9	785.7	741.8	696.1	280.5
15°	2005.6	1943.1	1980.3	1889.0	1786.0	1669.4	1551.1	1402.4	1275.7	1140.5	386.9
17.5°	4224.2	4285.0	4181.9	3791.6	3551.7	3269.5	2872.4	2488.9	2161.1	1897.5	473.1
20°	7503.8	7593.4	7243.6	6904.0	6321.0	5685.7	5023.4	4273.2	3555.1	2933.3	530.6
21°	8874.1	8820.0	8676.4	8132.4	7459.9	6723.2	5912.1	5084.2	4214.0	3406.4	535.6
22°	10198.8	10224.2	9889.6	9320.2	8620.7	7804.6	6814.4	5792.2	4854.4	3791.6	527.2
23°	11518.4	11599.5	11156.9	10622.9	9742.6	8821.7	7676.1	6572.8	5413.7	4232.6	510.3
24°	12740.1	12684.3	12385.2	11712.8	10771.6	9693.6	8504.1	7165.9	5873.3	4609.4	496.8
25°	13762.3	13755.6	13285.8	12631.9	11555.6	10361.0	9049.8	7650.8	6267.0	4864.5	479.9
26°	14598.7	14461.8	14091.8	13294.3	12231.5	10971.0	9497.6	8003.9	6488.3	4993.0	463.0
27°	15244.2	15146.2	14649.4	13819.8	12709.7	11315.7	9784.8	8179.7	6589.7	5035.2	441.0
28°	15678.4	15571.9	15043.1	14188.1	12973.2	11532.0	9936.9	8254.0	6589.7	4994.6	420.7
29°	15903.1	15757.8	15230.6	14314.8	13034.1	11557.3	9899.7	8181.4	6486.6	4869.6	397.1
30°	15886.2	15705.4	15152.9	14199.9	12853.3	11349.5	9691.9	7919.5	6253.4	4683.7	370.0
31°	15612.5	15409.7	14793.0	13811.3	12479.9	10957.5	9299.9	7568.0	5934.1	4442.1	343.0
32°	15056.6	14799.8	14198.2	13219.9	11905.4	10371.2	8730.5	7025.6	5455.9	4089.0	314.3
33°	14150.9	13892.4	13247.0	12329.5	11128.1	9627.7	7975.2	6442.7	4911.9	3668.3	290.6
34°	13017.2	12780.6	12224.7	11300.5	10148.1	8686.6	7106.7	5636.7	4347.5	3250.9	265.3
35°	11719.5	11342.7	10839.2	10107.6	8983.9	7513.9	6169.0	4886.5	3766.3	2813.3	238.2
36°	9964.0	10031.5	9497.6	8602.1	7671.1	6518.7	5227.8	4073.8	3149.5	2397.6	214.6
37°	8407.8	8301.3	7961.7	7268.9	6457.9	5314.0	4381.3	3453.7	2649.4	2027.6	189.2
38°	6782.3	6806.0	6473.1	5940.9	5136.6	4369.5	3526.3	2836.9	2216.8	1725.1	165.6
39°	5308.9	5290.3	5200.8	4707.4	3979.2	3475.6	2857.2	2352.0	1846.8	1454.8	140.2
40°	3999.4	4029.8	3820.3	3523.0	3098.8	2684.9	2276.0	1875.5	1527.5	1226.7	109.8
42.5°	1944.8	1992.1	1853.6	1777.5	1590.0	1427.8	1204.7	983.4	836.4	723.2	49.0
45°	947.9	920.9	909.0	871.9	827.9	740.1	655.6	562.7	491.7	424.1	30.4
47.5°	484.9	471.4	471.4	456.2	441.0	412.3	370.0	339.6	305.8	263.6	11.8
50°	145.3	143.6	141.9	143.6	138.6	143.6	147.0	148.7	135.2	133.5	3.4
52.5°	57.4	59.1	57.4	62.5	62.5	60.8	62.5	60.8	59.1	52.4	0.0
55°	16.9	16.9	16.9	16.9	16.9	16.9	18.6	20.3	18.6	20.3	0.0
57.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	0.0
60°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	0.0	1.7
62.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
65°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
67.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
70°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
72.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
75°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	1.7
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7



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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	1.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P1308259

CATALOG NUMBER: P3SQAS20R159030D010 E3SQCA301MW

**CANDELA DISTRIBUTION (continued):**

	67.5°	90°	112.5°	135°	157.5°	180°
0°	57.4	57.4	57.4	57.4	57.4	57.4
2.5°	67.6	59.1	49.0	40.6	37.2	35.5
5°	72.7	54.1	37.2	28.7	25.3	23.7
7.5°	77.7	49.0	28.7	20.3	15.2	13.5
10°	81.1	42.2	22.0	11.8	8.4	8.4
12.5°	81.1	33.8	15.2	6.8	5.1	5.1
15°	79.4	28.7	10.1	5.1	3.4	3.4
17.5°	77.7	22.0	6.8	3.4	1.7	3.4
20°	72.7	16.9	3.4	1.7	1.7	1.7
21°	71.0	15.2	3.4	1.7	1.7	1.7
22°	67.6	13.5	1.7	0.0	1.7	1.7
23°	64.2	10.1	1.7	0.0	0.0	0.0
24°	59.1	8.4	1.7	0.0	0.0	0.0
25°	55.8	8.4	1.7	0.0	0.0	0.0
26°	52.4	5.1	0.0	0.0	0.0	0.0
27°	47.3	3.4	0.0	0.0	0.0	0.0
28°	43.9	3.4	0.0	0.0	0.0	0.0
29°	38.9	3.4	0.0	0.0	0.0	0.0
30°	33.8	3.4	0.0	0.0	0.0	0.0
31°	27.0	1.7	0.0	0.0	0.0	0.0
32°	22.0	1.7	0.0	0.0	0.0	0.0
33°	15.2	1.7	0.0	0.0	0.0	0.0
34°	10.1	1.7	0.0	0.0	0.0	0.0
35°	8.4	1.7	0.0	0.0	0.0	0.0
36°	5.1	1.7	0.0	0.0	0.0	1.7
37°	5.1	1.7	0.0	0.0	0.0	1.7
38°	3.4	1.7	0.0	0.0	0.0	1.7
39°	1.7	1.7	0.0	0.0	0.0	1.7
40°	1.7	1.7	0.0	0.0	0.0	1.7
42.5°	0.0	1.7	0.0	0.0	1.7	3.4
45°	0.0	1.7	0.0	0.0	1.7	3.4
47.5°	0.0	1.7	0.0	0.0	3.4	3.4
50°	0.0	1.7	1.7	1.7	3.4	5.1
52.5°	0.0	3.4	1.7	3.4	5.1	6.8
55°	1.7	3.4	3.4	5.1	6.8	8.4
57.5°	1.7	5.1	5.1	6.8	8.4	8.4
60°	3.4	5.1	6.8	6.8	10.1	10.1
62.5°	3.4	6.8	6.8	6.8	10.1	10.1
65°	3.4	6.8	6.8	8.4	10.1	10.1
67.5°	3.4	6.8	6.8	6.8	8.4	10.1
70°	3.4	6.8	5.1	6.8	8.4	8.4
72.5°	3.4	6.8	5.1	5.1	6.8	8.4
75°	3.4	6.8	5.1	5.1	6.8	6.8
77.5°	3.4	5.1	5.1	3.4	5.1	5.1
80°	3.4	5.1	3.4	3.4	5.1	5.1



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**CANDELA DISTRIBUTION (continued):**

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	3.4	5.1	3.4	1.7	3.4	3.4
85°	3.4	5.1	3.4	1.7	1.7	1.7
87.5°	3.4	5.1	1.7	0.0	0.0	1.7
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)