

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: P1315448

Luminaire Tested: P3SQAS17R159740DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1315448
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: P3SQAS17R159740DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R15 optic, 4000K CCT AND, 97CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

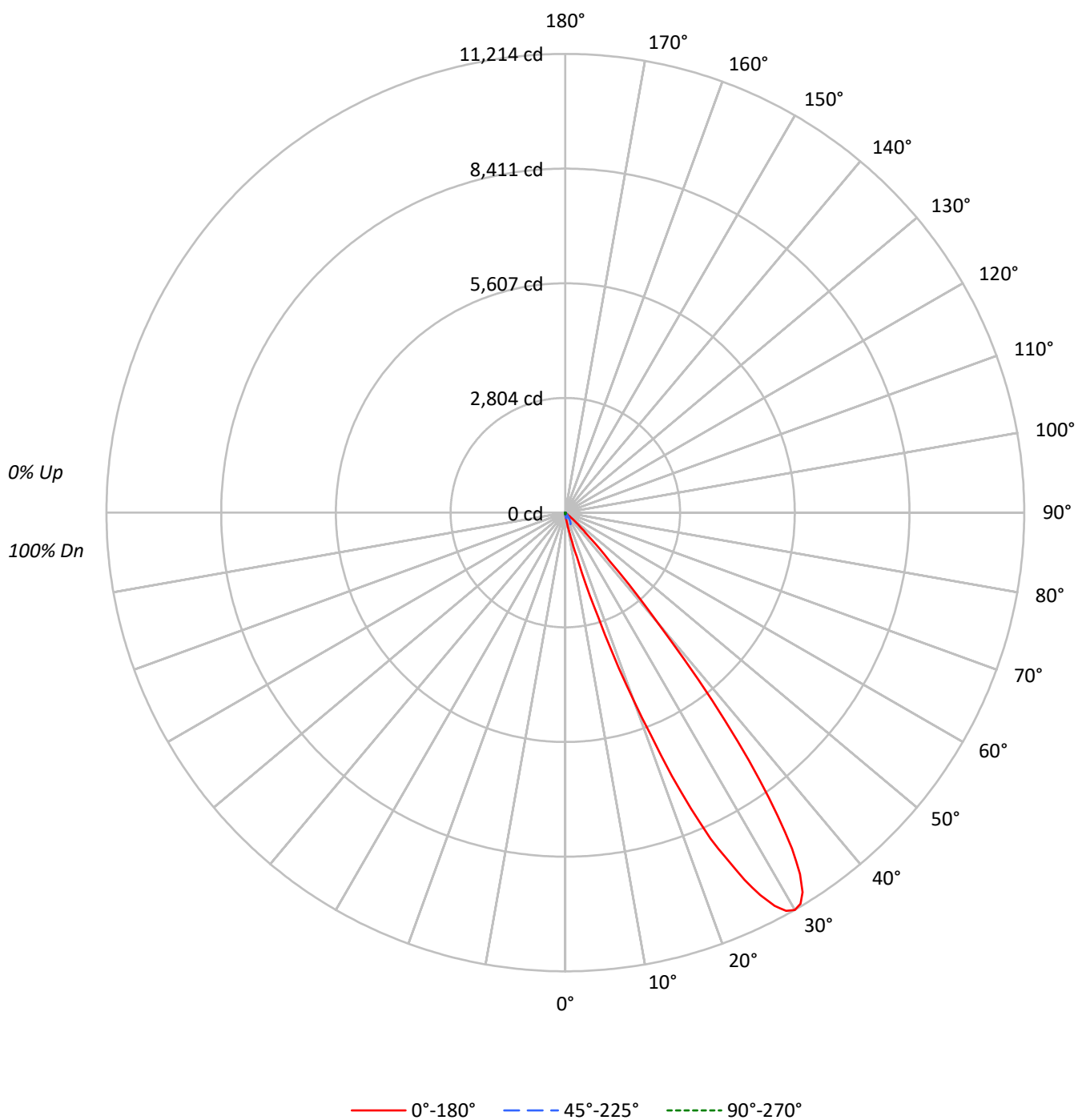
Lumens per Lamp: N/A
Luminaire Lumens: 1186.0 lumens
Efficiency: N/A
Efficacy: 55.9 lumens/watt
Spacing Criteria (0/90/45): 2.33 / 0.38 / 1.17
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 21.2
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	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°	7302	7302	7302	7302	7302
5°	21126	15957	6258	2593	1729
10°	54965	23766	4145	0	0
15°	219699	38922	2229	0	0
20°	897592	57365	678	0	0
25°	1774355	56875	0	0	0
30°	2230138	44884	0	0	0
35°	1902823	27542	0	0	0
40°	783388	8701	0	0	0
45°	169493	3653	0	0	0
50°	21729	0	0	0	0
55°	1862	0	360	0	0
60°	0	0	861	0	0
65°	0	0	1019	0	0
70°	0	604	1863	0	0
75°	0	799	2462	0	0
80°	0	1190	3670	0	0
85°	0	2371	7311	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2°

Vertical Angle: 45°

Luminance: 177384 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.7	0.5
10°-20°	83.1	7.0
20°-30°	484.5	40.8
30°-40°	519.4	43.8
40°-50°	87.7	7.4
50°-60°	2.6	0.2
60°-70°	0.8	0.1
70°-80°	1.1	0.1
80°-90°	1.0	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°	573.3	48.3
0°-40°	1092.7	92.1
0°-60°	1183.0	99.8
0°-90°	1186.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1186.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	42	42	42	42	42	
5°	122	92	36	15	10	17
15°	1232	218	12	0	0	570
25°	9337	299	0	0	0	4225
35°	9050	131	0	0	0	5201
45°	696	15	0	0	0	822
55°	6	0	1	0	0	16
65°	0	0	2	0	0	0
75°	0	1	4	0	0	0
85°	0	1	4	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°	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4
2.5°	77.3	78.6	79.8	79.8	79.8	79.8	78.6	78.6	78.6	78.6	77.3
5°	122.2	122.2	122.2	122.2	122.2	122.2	121.0	121.0	121.0	121.0	121.0
7.5°	174.6	172.1	173.4	169.6	172.1	170.9	169.6	172.1	172.1	165.9	165.9
10°	314.3	313.0	300.6	303.1	305.6	304.3	304.3	296.8	295.6	290.6	285.6
12.5°	606.1	619.8	629.8	629.8	606.1	614.8	598.6	602.4	604.9	597.4	571.2
15°	1232.2	1254.6	1230.9	1253.4	1244.6	1212.2	1176.1	1127.4	1146.1	1112.5	1101.2
17.5°	2698.8	2750.0	2728.7	2625.2	2658.9	2579.1	2529.2	2510.5	2458.1	2302.2	2237.4
20°	4897.5	4959.9	4901.3	4780.3	4819.0	4668.1	4629.4	4593.2	4361.3	4276.5	4004.6
21°	5822.9	5874.0	5896.5	5770.5	5693.2	5573.5	5473.7	5441.3	5300.4	5137.0	4857.6
22°	6940.4	6880.5	6745.8	6763.3	6648.5	6550.0	6411.6	6280.6	6123.5	5895.2	5664.5
23°	7865.7	7795.9	7732.3	7655.0	7531.5	7461.7	7263.4	7119.9	6915.4	6671.0	6449.0
24°	8727.5	8620.3	8580.3	8443.2	8408.2	8251.1	8090.2	7903.1	7656.2	7395.6	7149.9
25°	9337.4	9353.6	9318.7	9302.4	9124.1	8963.2	8803.6	8515.5	8304.7	8074.0	7696.1
26°	9990.9	9998.3	9980.9	9861.2	9700.3	9543.1	9337.4	9086.7	8781.1	8525.5	8183.8
27°	10491.0	10461.0	10436.1	10293.9	10161.7	9963.4	9776.4	9479.5	9181.5	8877.2	8480.6
28°	10890.1	10833.9	10802.8	10680.5	10525.9	10282.7	10053.2	9776.4	9478.3	9151.5	8722.5
29°	11130.8	11070.9	11036.0	10901.3	10722.9	10509.7	10277.7	9973.4	9652.9	9288.7	8857.2
30°	11214.3	11179.4	11124.5	10984.8	10800.3	10578.3	10340.1	10009.6	9674.1	9301.2	8844.7
31°	11159.4	11114.5	11062.2	10911.3	10711.7	10499.7	10222.8	9876.1	9523.2	9167.7	8683.9
32°	10941.2	10913.8	10850.1	10648.1	10486.0	10211.6	9938.5	9614.2	9228.9	8847.2	8409.5
33°	10532.1	10487.2	10432.4	10247.8	10040.7	9777.6	9505.7	9174.0	8791.1	8388.3	7906.9
34°	9908.6	9851.2	9782.6	9659.1	9394.7	9166.5	8852.2	8464.4	8147.6	7761.0	7325.7
35°	9050.5	8967.0	8884.6	8791.1	8494.3	8283.5	8071.5	7733.5	7428.0	7063.8	6571.2
36°	8087.7	8055.3	7988.0	7741.0	7645.0	7358.1	7187.3	6799.4	6552.5	6195.8	5789.2
37°	6999.0	6808.2	6905.4	6767.0	6477.7	6387.9	6184.6	5851.6	5584.7	5208.1	4913.7
38°	5831.6	5706.9	5775.5	5635.8	5484.9	5277.9	5123.3	4880.1	4580.8	4285.2	4005.8
39°	4621.9	4520.9	4595.7	4500.9	4271.5	4185.4	4048.2	3862.4	3621.7	3391.0	3126.6
40°	3484.5	3354.8	3454.6	3319.9	3215.1	3074.2	3004.4	2833.5	2683.9	2545.4	2377.1
42.5°	1591.4	1577.6	1555.2	1506.5	1495.3	1496.6	1410.5	1354.4	1278.3	1189.8	1136.1
45°	695.9	713.4	728.3	700.9	699.6	684.7	679.7	642.3	627.3	598.6	563.7
47.5°	343.0	349.2	345.5	352.9	346.7	336.7	334.2	329.2	314.3	313.0	296.8
50°	81.1	79.8	79.8	81.1	79.8	79.8	78.6	76.1	74.8	76.1	72.3
52.5°	26.2	27.4	26.2	24.9	26.2	27.4	26.2	26.2	26.2	26.2	26.2
55°	6.2	6.2	6.2	6.2	6.2	6.2	5.0	5.0	6.2	6.2	6.2
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°	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4
2.5°	76.1	64.9	53.6	42.4	31.2	24.9	23.7	22.4
5°	114.7	92.3	61.1	36.2	21.2	15.0	11.2	10.0
7.5°	154.6	114.7	67.3	29.9	15.0	6.2	2.5	1.2
10°	222.0	135.9	69.8	23.7	7.5	0.0	0.0	0.0
12.5°	435.3	155.9	68.6	18.7	1.2	0.0	0.0	0.0
15°	723.3	218.3	63.6	12.5	0.0	0.0	0.0	0.0
17.5°	1184.8	281.9	54.9	8.7	0.0	0.0	0.0	0.0
20°	1837.0	313.0	42.4	3.7	0.0	0.0	0.0	0.0
21°	2153.8	315.5	37.4	2.5	0.0	0.0	0.0	0.0
22°	2428.2	315.5	32.4	1.2	0.0	0.0	0.0	0.0
23°	2682.6	311.8	28.7	0.0	0.0	0.0	0.0	0.0
24°	2892.1	306.8	26.2	0.0	0.0	0.0	0.0	0.0
25°	3049.3	299.3	23.7	0.0	0.0	0.0	0.0	0.0
26°	3121.6	289.3	20.0	0.0	0.0	0.0	0.0	0.0
27°	3157.8	275.6	17.5	0.0	0.0	0.0	0.0	0.0
28°	3132.8	260.7	15.0	0.0	0.0	0.0	0.0	0.0
29°	3070.5	244.4	11.2	0.0	0.0	0.0	0.0	0.0
30°	2989.4	225.7	8.7	0.0	0.0	0.0	0.0	0.0
31°	2870.9	207.0	6.2	0.0	0.0	0.0	0.0	0.0
32°	2708.8	188.3	5.0	0.0	0.0	0.0	0.0	0.0
33°	2491.8	168.4	2.5	0.0	0.0	0.0	0.0	0.0
34°	2223.7	148.4	1.2	0.0	0.0	0.0	0.0	0.0
35°	1923.1	131.0	0.0	0.0	0.0	0.0	0.0	0.0
36°	1664.9	112.2	0.0	0.0	0.0	0.0	0.0	0.0
37°	1405.5	89.8	0.0	0.0	0.0	0.0	0.0	0.0
38°	1177.3	71.1	0.0	0.0	0.0	0.0	0.0	0.0
39°	974.0	57.4	0.0	0.0	0.0	0.0	0.0	0.0
40°	806.9	38.7	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	446.5	26.2	0.0	0.0	0.0	0.0	0.0	0.0
45°	270.6	15.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	157.1	5.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	59.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	5.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0
60°	0.0	0.0	1.2	2.5	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	1.2	2.5	1.2	0.0	0.0	0.0
65°	0.0	0.0	2.5	2.5	1.2	0.0	0.0	0.0
67.5°	0.0	0.0	2.5	3.7	1.2	0.0	0.0	0.0
70°	0.0	1.2	2.5	3.7	1.2	0.0	0.0	0.0
72.5°	0.0	1.2	2.5	3.7	1.2	0.0	0.0	0.0
75°	0.0	1.2	2.5	3.7	1.2	0.0	0.0	0.0
77.5°	0.0	1.2	2.5	3.7	1.2	0.0	0.0	0.0
80°	0.0	1.2	2.5	3.7	1.2	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	1.2	2.5	3.7	1.2	0.0	0.0	0.0
85°	0.0	1.2	2.5	3.7	1.2	0.0	0.0	0.0
87.5°	0.0	1.2	2.5	3.7	1.2	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)