

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: P1314977

Luminaire Tested: P3SQAS05R159740DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1314977
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: P3SQAS05R159740DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R15 optic, 4000K CCT AND, 97CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

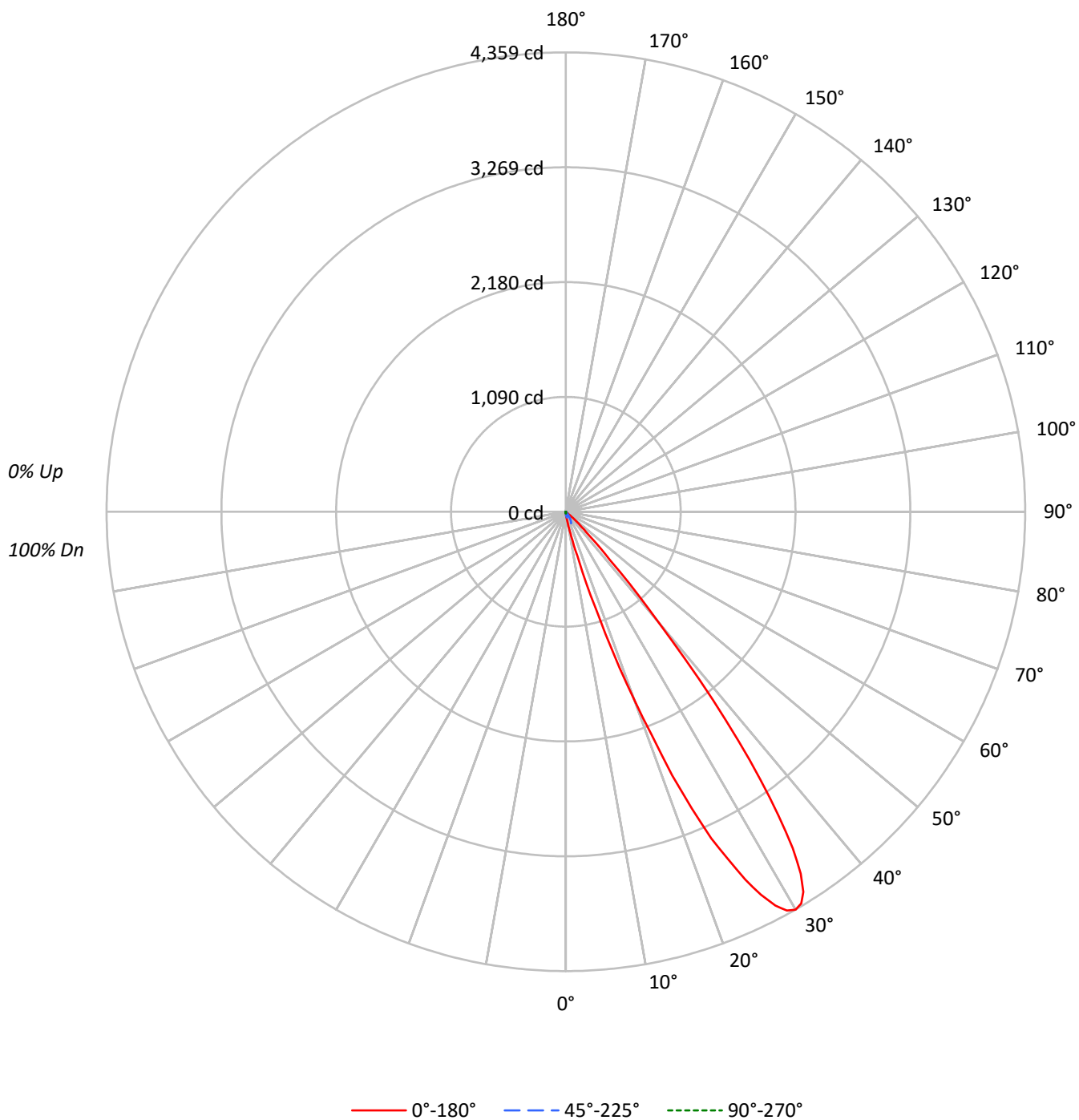
Lumens per Lamp: N/A
Luminaire Lumens: 461.0 lumens
Efficiency: N/A
Efficacy: 64.0 lumens/watt
Spacing Criteria (0/90/45): 2.33 / 0.38 / 1.17
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 7.2
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°	2842	2842	2842	2842	2842
5°	8212	6206	2438	1003	674
10°	21370	9234	1609	0	0
15°	85387	15120	856	0	0
20°	348902	22305	275	0	0
25°	689683	22100	0	0	0
30°	866855	17441	0	0	0
35°	739642	10701	0	0	0
40°	304497	3372	0	0	0
45°	65883	1413	0	0	0
50°	8440	0	0	0	0
55°	721	0	150	0	0
60°	0	0	344	0	0
65°	0	0	408	0	0
70°	0	252	755	0	0
75°	0	333	998	0	0
80°	0	496	1488	0	0
85°	0	988	2964	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2°

Vertical Angle: 45°

Luminance: 68952 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.2	0.5
10°-20°	32.3	7.0
20°-30°	188.3	40.8
30°-40°	201.9	43.8
40°-50°	34.1	7.4
50°-60°	1.0	0.2
60°-70°	0.3	0.1
70°-80°	0.5	0.1
80°-90°	0.4	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°	222.8	48.3
0°-40°	424.7	92.1
0°-60°	459.8	99.7
0°-90°	461.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	461.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	16	16	16	16	16	
5°	48	36	14	6	4	7
15°	479	85	5	0	0	222
25°	3629	116	0	0	0	1642
35°	3518	51	0	0	0	2022
45°	270	6	0	0	0	320
55°	2	0	0	0	0	6
65°	0	0	1	0	0	0
75°	0	0	2	0	0	0
85°	0	0	2	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°	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5
2.5°	30.1	30.5	31.0	31.0	31.0	31.0	30.5	30.5	30.5	30.5	30.1
5°	47.5	47.5	47.5	47.5	47.5	47.5	47.0	47.0	47.0	47.0	47.0
7.5°	67.9	66.9	67.4	65.9	66.9	66.4	65.9	66.9	66.9	64.5	64.5
10°	122.2	121.7	116.8	117.8	118.8	118.3	118.3	115.4	114.9	113.0	111.0
12.5°	235.6	240.9	244.8	244.8	235.6	239.0	232.7	234.1	235.1	232.2	222.0
15°	478.9	487.7	478.5	487.2	483.8	471.2	457.1	438.2	445.5	432.4	428.0
17.5°	1049.0	1068.9	1060.7	1020.4	1033.5	1002.5	983.1	975.8	955.5	894.9	869.7
20°	1903.7	1927.9	1905.1	1858.1	1873.1	1814.5	1799.5	1785.4	1695.2	1662.3	1556.6
21°	2263.4	2283.2	2292.0	2243.0	2213.0	2166.4	2127.6	2115.0	2060.3	1996.8	1888.2
22°	2697.7	2674.5	2622.1	2628.9	2584.3	2546.0	2492.2	2441.3	2380.2	2291.5	2201.8
23°	3057.4	3030.3	3005.6	2975.5	2927.5	2900.4	2823.3	2767.5	2688.0	2593.0	2506.7
24°	3392.4	3350.7	3335.2	3281.9	3268.3	3207.2	3144.7	3072.0	2976.0	2874.7	2779.2
25°	3629.4	3635.7	3622.2	3615.9	3546.6	3484.0	3422.0	3310.0	3228.1	3138.4	2991.5
26°	3883.5	3886.4	3879.6	3833.0	3770.5	3709.4	3629.4	3532.0	3413.2	3313.9	3181.0
27°	4077.9	4066.2	4056.5	4001.3	3949.9	3872.8	3800.1	3684.7	3568.9	3450.6	3296.4
28°	4233.0	4211.2	4199.0	4151.5	4091.4	3996.9	3907.7	3800.1	3684.2	3557.2	3390.5
29°	4326.5	4303.3	4289.7	4237.3	4168.0	4085.1	3995.0	3876.7	3752.1	3610.5	3442.8
30°	4359.0	4345.4	4324.1	4269.8	4198.1	4111.8	4019.2	3890.7	3760.3	3615.4	3438.0
31°	4337.7	4320.2	4299.9	4241.2	4163.7	4081.2	3973.6	3838.9	3701.7	3563.5	3375.4
32°	4252.9	4242.2	4217.5	4138.9	4075.9	3969.3	3863.1	3737.1	3587.3	3438.9	3268.8
33°	4093.9	4076.4	4055.1	3983.3	3902.9	3800.6	3694.9	3565.9	3417.1	3260.5	3073.4
34°	3851.5	3829.2	3802.5	3754.5	3651.7	3563.0	3440.9	3290.1	3167.0	3016.7	2847.5
35°	3518.0	3485.5	3453.5	3417.1	3301.7	3219.8	3137.4	3006.0	2887.3	2745.7	2554.2
36°	3143.7	3131.1	3104.9	3008.9	2971.6	2860.1	2793.7	2642.9	2547.0	2408.3	2250.3
37°	2720.5	2646.3	2684.2	2630.3	2517.9	2483.0	2404.0	2274.5	2170.8	2024.4	1910.0
38°	2266.8	2218.3	2245.0	2190.7	2132.0	2051.5	1991.4	1896.9	1780.5	1665.7	1557.1
39°	1796.5	1757.3	1786.4	1749.5	1660.3	1626.9	1573.6	1501.3	1407.8	1318.1	1215.3
40°	1354.4	1304.0	1342.8	1290.4	1249.7	1194.9	1167.8	1101.4	1043.2	989.4	924.0
42.5°	618.6	613.2	604.5	585.6	581.2	581.7	548.3	526.5	496.9	462.5	441.6
45°	270.5	277.3	283.1	272.4	272.0	266.1	264.2	249.7	243.8	232.7	219.1
47.5°	133.3	135.7	134.3	137.2	134.8	130.9	129.9	128.0	122.2	121.7	115.4
50°	31.5	31.0	31.0	31.5	31.0	31.0	30.5	29.6	29.1	29.6	28.1
52.5°	10.2	10.7	10.2	9.7	10.2	10.7	10.2	10.2	10.2	10.2	10.2
55°	2.4	2.4	2.4	2.4	2.4	2.4	1.9	1.9	2.4	2.4	2.4
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°	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5
2.5°	29.6	25.2	20.8	16.5	12.1	9.7	9.2	8.7
5°	44.6	35.9	23.8	14.1	8.2	5.8	4.4	3.9
7.5°	60.1	44.6	26.2	11.6	5.8	2.4	1.0	0.5
10°	86.3	52.8	27.1	9.2	2.9	0.0	0.0	0.0
12.5°	169.2	60.6	26.7	7.3	0.5	0.0	0.0	0.0
15°	281.2	84.8	24.7	4.8	0.0	0.0	0.0	0.0
17.5°	460.5	109.6	21.3	3.4	0.0	0.0	0.0	0.0
20°	714.1	121.7	16.5	1.5	0.0	0.0	0.0	0.0
21°	837.2	122.6	14.5	1.0	0.0	0.0	0.0	0.0
22°	943.8	122.6	12.6	0.5	0.0	0.0	0.0	0.0
23°	1042.7	121.2	11.1	0.0	0.0	0.0	0.0	0.0
24°	1124.2	119.3	10.2	0.0	0.0	0.0	0.0	0.0
25°	1185.3	116.3	9.2	0.0	0.0	0.0	0.0	0.0
26°	1213.4	112.5	7.8	0.0	0.0	0.0	0.0	0.0
27°	1227.4	107.1	6.8	0.0	0.0	0.0	0.0	0.0
28°	1217.7	101.3	5.8	0.0	0.0	0.0	0.0	0.0
29°	1193.5	95.0	4.4	0.0	0.0	0.0	0.0	0.0
30°	1162.0	87.7	3.4	0.0	0.0	0.0	0.0	0.0
31°	1115.9	80.5	2.4	0.0	0.0	0.0	0.0	0.0
32°	1052.9	73.2	1.9	0.0	0.0	0.0	0.0	0.0
33°	968.6	65.4	1.0	0.0	0.0	0.0	0.0	0.0
34°	864.3	57.7	0.5	0.0	0.0	0.0	0.0	0.0
35°	747.5	50.9	0.0	0.0	0.0	0.0	0.0	0.0
36°	647.2	43.6	0.0	0.0	0.0	0.0	0.0	0.0
37°	546.3	34.9	0.0	0.0	0.0	0.0	0.0	0.0
38°	457.6	27.6	0.0	0.0	0.0	0.0	0.0	0.0
39°	378.6	22.3	0.0	0.0	0.0	0.0	0.0	0.0
40°	313.6	15.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	173.5	10.2	0.0	0.0	0.0	0.0	0.0	0.0
45°	105.2	5.8	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	61.1	1.9	0.0	0.0	0.0	0.0	0.0	0.0
50°	23.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	7.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	1.9	0.0	0.0	0.5	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.5	1.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.5	1.0	0.5	0.0	0.0	0.0
65°	0.0	0.0	1.0	1.0	0.5	0.0	0.0	0.0
67.5°	0.0	0.0	1.0	1.5	0.5	0.0	0.0	0.0
70°	0.0	0.5	1.0	1.5	0.5	0.0	0.0	0.0
72.5°	0.0	0.5	1.0	1.5	0.5	0.0	0.0	0.0
75°	0.0	0.5	1.0	1.5	0.5	0.0	0.0	0.0
77.5°	0.0	0.5	1.0	1.5	0.5	0.0	0.0	0.0
80°	0.0	0.5	1.0	1.5	0.5	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	0.5	1.0	1.5	0.5	0.0	0.0	0.0
85°	0.0	0.5	1.0	1.5	0.5	0.0	0.0	0.0
87.5°	0.0	0.5	1.0	1.5	0.5	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)