

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: P1306837

Luminaire Tested: P3SQAS13R159027DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1306837
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: P3SQAS13R159027DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R15 optic, 2700K CCT AND, 90CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

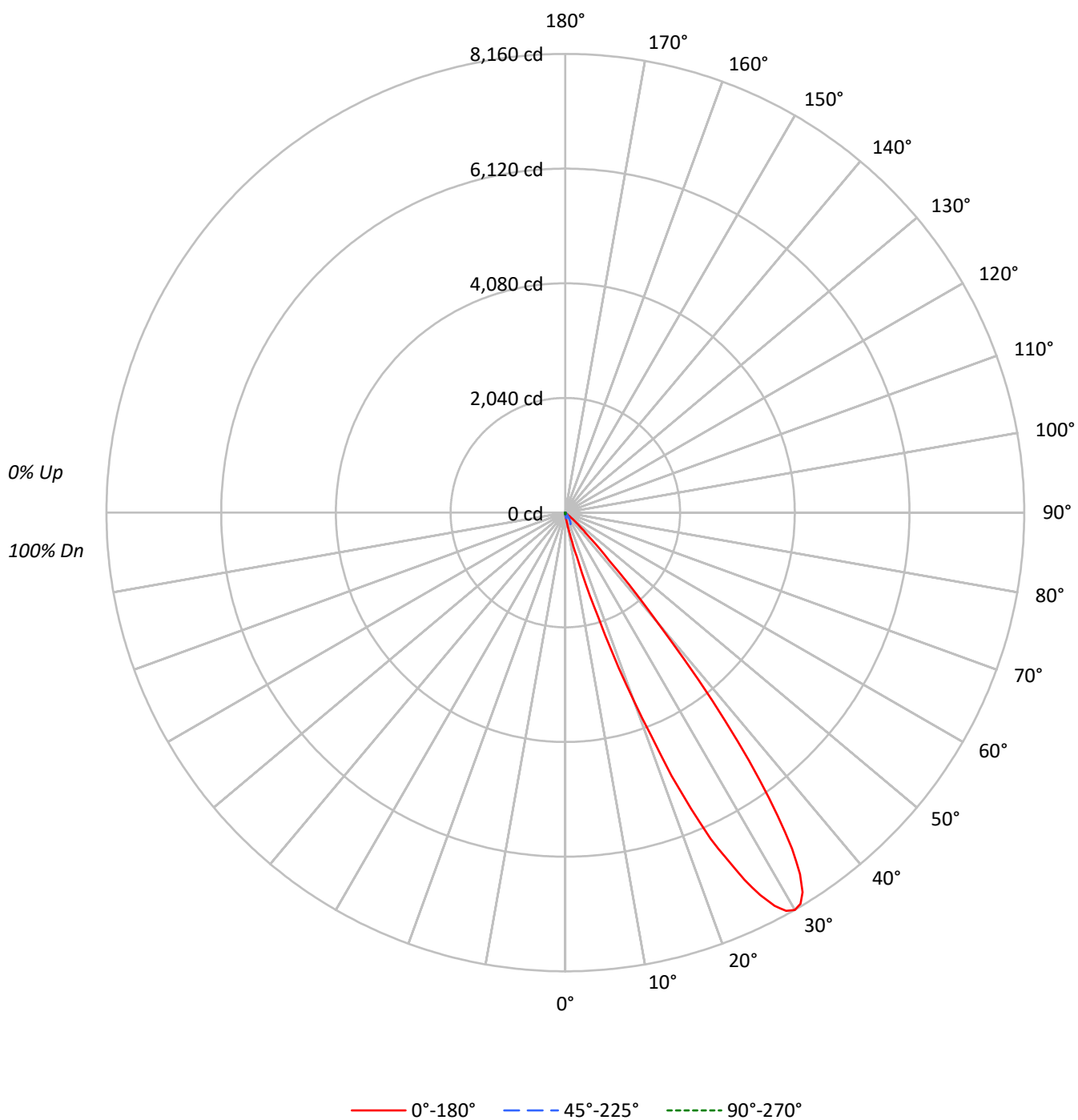
Lumens per Lamp: N/A
Luminaire Lumens: 863.0 lumens
Efficiency: N/A
Efficacy: 59.1 lumens/watt
Spacing Criteria (0/90/45): 2.33 / 0.38 / 1.17
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.6
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	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	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°	5322	5322	5322	5322	5322
5°	15369	11618	4547	1884	1262
10°	39995	17296	3008	0	0
15°	159862	28314	1623	0	0
20°	653139	41750	495	0	0
25°	1291117	41388	0	0	0
30°	1622783	32674	0	0	0
35°	1384611	20036	0	0	0
40°	570033	6317	0	0	0
45°	123339	2655	0	0	0
50°	15808	0	0	0	0
55°	1351	0	270	0	0
60°	0	0	620	0	0
65°	0	0	734	0	0
70°	0	453	1360	0	0
75°	0	599	1797	0	0
80°	0	893	2678	0	0
85°	0	1778	5335	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2°

Vertical Angle: 45°

Luminance: 129087 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.1	0.5
10°-20°	60.5	7.0
20°-30°	352.5	40.8
30°-40°	378.0	43.8
40°-50°	63.8	7.4
50°-60°	1.9	0.2
60°-70°	0.6	0.1
70°-80°	0.8	0.1
80°-90°	0.8	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°	417.1	48.3
0°-40°	795.1	92.1
0°-60°	860.8	99.8
0°-90°	863.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	863.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	31	31	31	31	31	
5°	89	67	26	11	7	12
15°	897	159	9	0	0	415
25°	6794	218	0	0	0	3074
35°	6586	95	0	0	0	3785
45°	506	11	0	0	0	598
55°	4	0	1	0	0	11
65°	0	0	2	0	0	0
75°	0	1	3	0	0	0
85°	0	1	3	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°	30.9	30.9	30.9	30.9	30.9	30.9	30.9	30.9	30.9	30.9	30.9
2.5°	56.3	57.2	58.1	58.1	58.1	58.1	57.2	57.2	57.2	57.2	56.3
5°	88.9	88.9	88.9	88.9	88.9	88.9	88.0	88.0	88.0	88.0	88.0
7.5°	127.0	125.2	126.1	123.4	125.2	124.3	123.4	125.2	125.2	120.7	120.7
10°	228.7	227.8	218.7	220.5	222.3	221.4	221.4	216.0	215.1	211.4	207.8
12.5°	441.0	451.0	458.3	458.3	441.0	447.4	435.6	438.3	440.1	434.7	415.6
15°	896.6	912.9	895.7	912.0	905.7	882.1	855.8	820.4	834.0	809.5	801.3
17.5°	1963.8	2001.0	1985.6	1910.3	1934.8	1876.7	1840.4	1826.8	1788.7	1675.2	1628.0
20°	3563.7	3609.1	3566.4	3478.4	3506.5	3396.7	3368.6	3342.3	3173.5	3111.8	2914.0
21°	4237.1	4274.3	4290.6	4199.0	4142.7	4055.6	3983.0	3959.4	3856.8	3738.0	3534.7
22°	5050.2	5006.6	4908.6	4921.3	4837.8	4766.1	4665.4	4570.1	4455.8	4289.7	4121.8
23°	5723.5	5672.7	5626.4	5570.2	5480.3	5429.5	5285.2	5180.9	5032.0	4854.2	4692.6
24°	6350.6	6272.6	6243.5	6143.7	6118.3	6004.0	5886.9	5750.8	5571.1	5381.4	5202.6
25°	6794.4	6806.2	6780.8	6769.0	6639.2	6522.1	6406.0	6196.3	6043.0	5875.1	5600.1
26°	7269.9	7275.4	7262.7	7175.5	7058.5	6944.1	6794.4	6612.0	6389.6	6203.6	5955.0
27°	7633.8	7612.0	7593.9	7490.4	7394.2	7249.9	7113.8	6897.8	6681.0	6459.5	6170.9
28°	7924.2	7883.4	7860.7	7771.8	7659.2	7482.3	7315.3	7113.8	6896.9	6659.2	6347.0
29°	8099.4	8055.8	8030.4	7932.4	7802.6	7647.4	7478.6	7257.2	7024.0	6759.0	6445.0
30°	8160.2	8134.8	8094.8	7993.2	7858.9	7697.3	7524.0	7283.5	7039.4	6768.1	6435.9
31°	8120.2	8087.6	8049.4	7939.6	7794.4	7640.2	7438.7	7186.4	6929.6	6671.0	6318.9
32°	7961.4	7941.5	7895.2	7748.2	7630.2	7430.5	7231.8	6995.8	6715.4	6437.7	6119.2
33°	7663.8	7631.1	7591.2	7456.9	7306.2	7114.7	6916.9	6675.5	6396.9	6103.8	5753.5
34°	7210.0	7168.3	7118.4	7028.5	6836.1	6670.1	6441.4	6159.1	5928.6	5647.3	5330.6
35°	6585.7	6524.9	6465.0	6396.9	6180.9	6027.6	5873.3	5627.4	5405.0	5140.0	4781.6
36°	5885.1	5861.5	5812.5	5632.8	5562.9	5354.2	5229.9	4947.6	4768.0	4508.4	4212.6
37°	5092.8	4954.0	5024.8	4924.0	4713.5	4648.2	4500.2	4257.9	4063.7	3789.7	3575.5
38°	4243.4	4152.7	4202.6	4101.0	3991.1	3840.5	3728.0	3551.0	3333.2	3118.1	2914.9
39°	3363.2	3289.7	3344.1	3275.1	3108.2	3045.5	2945.7	2810.5	2635.4	2467.5	2275.1
40°	2535.5	2441.2	2513.8	2415.7	2339.5	2237.0	2186.1	2061.8	1952.9	1852.2	1729.7
42.5°	1158.0	1148.0	1131.6	1096.2	1088.1	1089.0	1026.4	985.5	930.2	865.7	826.7
45°	506.4	519.1	530.0	510.0	509.1	498.2	494.6	467.4	456.5	435.6	410.2
47.5°	249.6	254.1	251.4	256.8	252.3	245.0	243.2	239.6	228.7	227.8	216.0
50°	59.0	58.1	58.1	59.0	58.1	58.1	57.2	55.4	54.4	55.4	52.6
52.5°	19.1	20.0	19.1	18.1	19.1	20.0	19.1	19.1	19.1	19.1	19.1
55°	4.5	4.5	4.5	4.5	4.5	4.5	3.6	3.6	4.5	4.5	4.5
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°	30.9	30.9	30.9	30.9	30.9	30.9	30.9	30.9
2.5°	55.4	47.2	39.0	30.9	22.7	18.1	17.2	16.3
5°	83.5	67.2	44.5	26.3	15.4	10.9	8.2	7.3
7.5°	112.5	83.5	49.0	21.8	10.9	4.5	1.8	0.9
10°	161.5	98.9	50.8	17.2	5.4	0.0	0.0	0.0
12.5°	316.7	113.4	49.9	13.6	0.9	0.0	0.0	0.0
15°	526.3	158.8	46.3	9.1	0.0	0.0	0.0	0.0
17.5°	862.1	205.1	39.9	6.4	0.0	0.0	0.0	0.0
20°	1336.7	227.8	30.9	2.7	0.0	0.0	0.0	0.0
21°	1567.2	229.6	27.2	1.8	0.0	0.0	0.0	0.0
22°	1766.9	229.6	23.6	0.9	0.0	0.0	0.0	0.0
23°	1952.0	226.9	20.9	0.0	0.0	0.0	0.0	0.0
24°	2104.5	223.2	19.1	0.0	0.0	0.0	0.0	0.0
25°	2218.8	217.8	17.2	0.0	0.0	0.0	0.0	0.0
26°	2271.5	210.5	14.5	0.0	0.0	0.0	0.0	0.0
27°	2297.8	200.6	12.7	0.0	0.0	0.0	0.0	0.0
28°	2279.6	189.7	10.9	0.0	0.0	0.0	0.0	0.0
29°	2234.2	177.9	8.2	0.0	0.0	0.0	0.0	0.0
30°	2175.3	164.3	6.4	0.0	0.0	0.0	0.0	0.0
31°	2089.0	150.6	4.5	0.0	0.0	0.0	0.0	0.0
32°	1971.1	137.0	3.6	0.0	0.0	0.0	0.0	0.0
33°	1813.2	122.5	1.8	0.0	0.0	0.0	0.0	0.0
34°	1618.1	108.0	0.9	0.0	0.0	0.0	0.0	0.0
35°	1399.4	95.3	0.0	0.0	0.0	0.0	0.0	0.0
36°	1211.5	81.7	0.0	0.0	0.0	0.0	0.0	0.0
37°	1022.7	65.3	0.0	0.0	0.0	0.0	0.0	0.0
38°	856.7	51.7	0.0	0.0	0.0	0.0	0.0	0.0
39°	708.8	41.7	0.0	0.0	0.0	0.0	0.0	0.0
40°	587.1	28.1	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	324.9	19.1	0.0	0.0	0.0	0.0	0.0	0.0
45°	196.9	10.9	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	114.3	3.6	0.0	0.0	0.0	0.0	0.0	0.0
50°	43.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	14.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	3.6	0.0	0.0	0.9	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.9	1.8	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.9	1.8	0.9	0.0	0.0	0.0
65°	0.0	0.0	1.8	1.8	0.9	0.0	0.0	0.0
67.5°	0.0	0.0	1.8	2.7	0.9	0.0	0.0	0.0
70°	0.0	0.9	1.8	2.7	0.9	0.0	0.0	0.0
72.5°	0.0	0.9	1.8	2.7	0.9	0.0	0.0	0.0
75°	0.0	0.9	1.8	2.7	0.9	0.0	0.0	0.0
77.5°	0.0	0.9	1.8	2.7	0.9	0.0	0.0	0.0
80°	0.0	0.9	1.8	2.7	0.9	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	0.9	1.8	2.7	0.9	0.0	0.0	0.0
85°	0.0	0.9	1.8	2.7	0.9	0.0	0.0	0.0
87.5°	0.0	0.9	1.8	2.7	0.9	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)