

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: P1313520

Luminaire Tested: P3SQAS17R209730DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1313520
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: P3SQAS17R209730DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R20 optic, 3000K CCT AND, 97CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

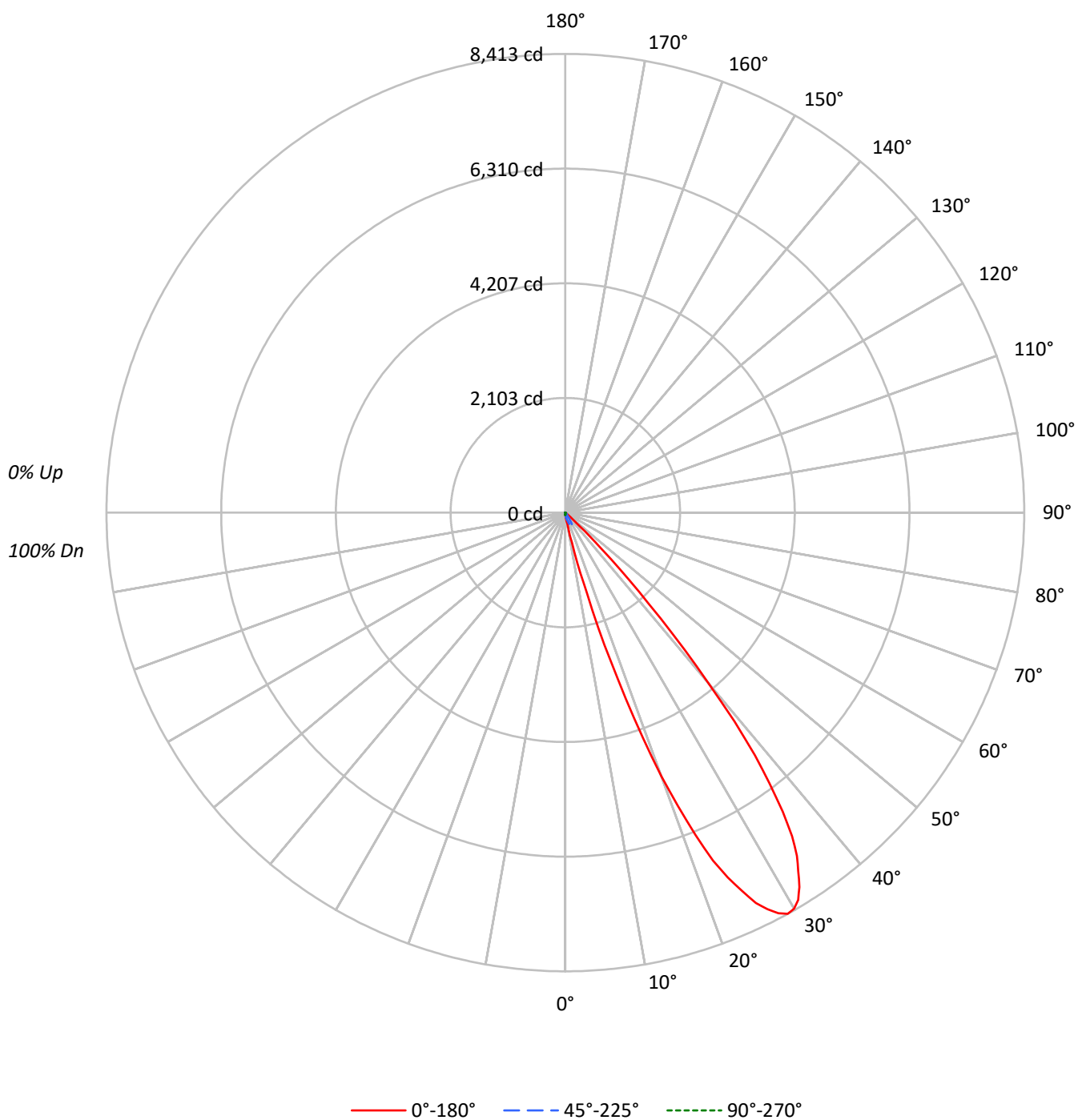
Lumens per Lamp: N/A
Luminaire Lumens: 1161.0 lumens
Efficiency: N/A
Efficacy: 54.8 lumens/watt
Spacing Criteria (0/90/45): 2.28 / 0.42 / 1.12
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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	49		
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°	7164	7164	7164	7164	7164
5°	15577	10978	6587	2991	2196
10°	38771	19377	4652	612	0
15°	272778	26566	2674	0	0
20°	942769	44646	1063	0	0
25°	1453191	57046	437	0	0
30°	1667965	44088	0	0	0
35°	1523330	16757	0	0	0
40°	913244	7779	0	0	0
45°	224416	3653	0	0	0
50°	24757	938	0	0	0
55°	3453	0	360	0	0
60°	0	0	792	0	0
65°	0	0	937	0	0
70°	0	604	1762	0	0
75°	0	799	2329	0	0
80°	0	1190	3471	0	0
85°	0	2371	6916	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 1°

Vertical Angle: 45°

Luminance: 239322 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.7	0.4
10°-20°	90.7	7.8
20°-30°	458.6	39.5
30°-40°	496.2	42.7
40°-50°	104.8	9.0
50°-60°	3.2	0.3
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°	554.0	47.7
0°-40°	1050.3	90.5
0°-60°	1158.2	99.8
0°-90°	1161.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1161.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	42	42	42	42	42	
5°	90	64	38	17	13	13
15°	1530	149	15	0	0	638
25°	7647	300	2	0	0	3457
35°	7246	80	0	0	0	4272
45°	921	15	0	0	0	1014
55°	12	0	1	0	0	21
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°	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6
2.5°	56.6	55.4	56.6	55.4	56.6	56.6	56.6	55.4	55.4	55.4	55.4
5°	90.1	90.1	88.9	90.1	90.1	90.1	90.1	88.9	88.9	87.8	87.8
7.5°	142.0	142.0	140.9	140.9	142.0	143.2	138.6	140.9	140.9	140.9	139.7
10°	221.7	226.3	221.7	227.5	222.8	219.4	225.2	219.4	219.4	218.2	214.8
12.5°	558.9	546.2	538.1	518.4	538.1	523.1	526.5	523.1	511.5	496.5	487.3
15°	1529.9	1529.9	1484.9	1544.9	1501.1	1517.2	1434.1	1435.2	1392.5	1346.3	1320.9
17.5°	3198.4	3227.3	3197.2	3178.8	3139.5	3082.9	3059.8	3000.9	2923.6	2833.5	2823.1
20°	5144.0	5022.8	5079.3	5027.4	4995.0	4925.8	4848.4	4799.9	4731.8	4617.5	4448.9
21°	5756.0	5751.3	5750.2	5749.0	5701.7	5588.5	5518.1	5421.1	5325.3	5207.5	5066.6
22°	6372.5	6394.5	6403.7	6336.7	6239.8	6189.0	6140.5	6007.7	5856.4	5795.2	5627.8
23°	6938.3	6917.5	6857.5	6826.3	6751.3	6736.3	6591.9	6507.6	6359.8	6292.9	6094.3
24°	7324.0	7313.6	7285.9	7239.7	7179.6	7087.3	7000.7	6867.9	6746.7	6637.0	6452.2
25°	7647.3	7656.5	7605.7	7574.5	7509.9	7406.0	7299.7	7154.2	7041.1	6912.9	6699.3
26°	7967.1	7902.5	7862.0	7815.9	7745.4	7626.5	7523.7	7393.3	7255.9	7112.7	6903.7
27°	8164.6	8106.8	8045.6	8000.6	7919.8	7806.6	7696.9	7552.6	7399.0	7254.7	7039.9
28°	8320.4	8256.9	8196.9	8142.6	8050.3	7929.0	7797.4	7650.7	7491.4	7342.5	7123.1
29°	8412.8	8337.8	8273.1	8211.9	8127.6	7996.0	7863.2	7706.2	7552.6	7396.7	7172.7
30°	8387.4	8322.8	8260.4	8198.1	8112.6	7989.1	7857.4	7707.3	7552.6	7399.0	7171.6
31°	8288.1	8208.4	8163.4	8101.1	8027.2	7901.3	7788.2	7624.2	7484.5	7318.2	7090.7
32°	8097.6	8046.8	7986.8	7938.3	7866.7	7732.7	7621.9	7487.9	7322.8	7186.6	6947.6
33°	7839.0	7791.6	7761.6	7705.0	7635.7	7543.4	7410.6	7288.2	7102.3	6962.6	6723.6
34°	7591.9	7531.8	7456.8	7440.6	7380.6	7261.6	7141.5	7016.8	6850.6	6672.8	6431.4
35°	7245.5	7183.1	7113.8	7119.6	7048.0	6909.5	6787.1	6647.4	6489.2	6280.2	6051.5
36°	6782.4	6740.9	6730.5	6702.8	6620.8	6455.7	6339.1	6163.6	6030.8	5775.6	5579.3
37°	6217.8	6232.8	6157.8	6122.0	6026.1	5910.7	5844.9	5619.7	5465.0	5273.3	5007.7
38°	5647.4	5625.5	5536.6	5558.5	5426.9	5306.8	5120.9	4987.0	4813.8	4635.9	4423.5
39°	4935.0	4880.7	4774.5	4779.1	4679.8	4544.7	4364.6	4206.4	4102.5	3931.6	3728.4
40°	4062.1	4039.0	4002.0	3940.8	3810.4	3751.5	3591.0	3420.1	3332.3	3095.6	2996.3
42.5°	2253.9	2222.7	2160.4	2138.4	2069.1	1999.9	1906.3	1792.0	1736.6	1666.2	1509.1
45°	921.4	982.6	967.6	950.3	897.2	900.6	833.7	841.7	780.5	739.0	710.1
47.5°	203.2	220.5	221.7	213.6	221.7	214.8	211.3	205.5	206.7	210.1	202.1
50°	92.4	91.2	93.5	92.4	91.2	90.1	88.9	85.4	87.8	85.4	83.1
52.5°	35.8	36.9	36.9	34.6	35.8	35.8	35.8	34.6	34.6	34.6	34.6
55°	11.5	11.5	11.5	10.4	10.4	11.5	11.5	11.5	11.5	11.5	10.4
57.5°	1.2	2.3	1.2	2.3	1.2	1.2	1.2	1.2	1.2	2.3	2.3
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°	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6
2.5°	53.1	48.5	45.0	41.6	34.6	28.9	26.6	26.6
5°	82.0	63.5	47.3	38.1	26.6	17.3	13.9	12.7
7.5°	123.5	85.4	49.7	32.3	17.3	9.2	5.8	4.6
10°	179.0	110.8	52.0	26.6	10.4	3.5	0.0	0.0
12.5°	312.9	132.8	52.0	20.8	4.6	0.0	0.0	0.0
15°	717.0	149.0	49.7	15.0	1.2	0.0	0.0	0.0
17.5°	1489.5	187.1	43.9	10.4	0.0	0.0	0.0	0.0
20°	2378.6	243.6	34.6	5.8	0.0	0.0	0.0	0.0
21°	2744.6	263.3	31.2	4.6	0.0	0.0	0.0	0.0
22°	3007.9	281.7	27.7	3.5	0.0	0.0	0.0	0.0
23°	3297.7	293.3	24.2	2.3	0.0	0.0	0.0	0.0
24°	3511.3	300.2	20.8	2.3	0.0	0.0	0.0	0.0
25°	3644.1	300.2	18.5	2.3	0.0	0.0	0.0	0.0
26°	3722.6	293.3	16.2	1.2	0.0	0.0	0.0	0.0
27°	3741.1	281.7	13.9	1.2	0.0	0.0	0.0	0.0
28°	3718.0	266.7	11.5	0.0	0.0	0.0	0.0	0.0
29°	3645.2	244.8	10.4	0.0	0.0	0.0	0.0	0.0
30°	3566.7	221.7	8.1	0.0	0.0	0.0	0.0	0.0
31°	3432.8	190.5	6.9	0.0	0.0	0.0	0.0	0.0
32°	3278.1	158.2	5.8	0.0	0.0	0.0	0.0	0.0
33°	3071.4	124.7	4.6	0.0	0.0	0.0	0.0	0.0
34°	2766.6	98.1	4.6	0.0	0.0	0.0	0.0	0.0
35°	2492.9	79.7	3.5	0.0	0.0	0.0	0.0	0.0
36°	2135.0	63.5	3.5	0.0	0.0	0.0	0.0	0.0
37°	1829.0	53.1	3.5	0.0	0.0	0.0	0.0	0.0
38°	1531.1	45.0	2.3	0.0	0.0	0.0	0.0	0.0
39°	1242.4	39.3	2.3	0.0	0.0	0.0	0.0	0.0
40°	990.7	34.6	2.3	0.0	0.0	0.0	0.0	0.0
42.5°	534.6	23.1	0.0	0.0	0.0	0.0	0.0	0.0
45°	295.6	15.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	130.5	8.1	0.0	0.0	0.0	0.0	0.0	0.0
50°	43.9	3.5	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	21.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	10.4	0.0	0.0	1.2	0.0	0.0	0.0	0.0
57.5°	2.3	0.0	0.0	1.2	0.0	0.0	0.0	0.0
60°	0.0	0.0	1.2	2.3	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	1.2	2.3	1.2	0.0	0.0	0.0
65°	0.0	0.0	2.3	2.3	1.2	0.0	0.0	0.0
67.5°	0.0	1.2	2.3	3.5	1.2	0.0	0.0	0.0
70°	0.0	1.2	2.3	3.5	1.2	0.0	0.0	0.0
72.5°	0.0	1.2	2.3	3.5	1.2	0.0	0.0	0.0
75°	0.0	1.2	2.3	3.5	1.2	0.0	0.0	0.0
77.5°	0.0	1.2	2.3	3.5	1.2	0.0	0.0	0.0
80°	0.0	1.2	2.3	3.5	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	2.3	3.5	1.2	0.0	0.0	0.0
85°	0.0	1.2	2.3	3.5	1.2	0.0	0.0	0.0
87.5°	0.0	1.2	2.3	3.5	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)