

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: P1317262

Luminaire Tested: P3SQAS17R309830DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1317262
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-76)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS17R309830DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R30 optic, 3000K CCT AND, 98CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

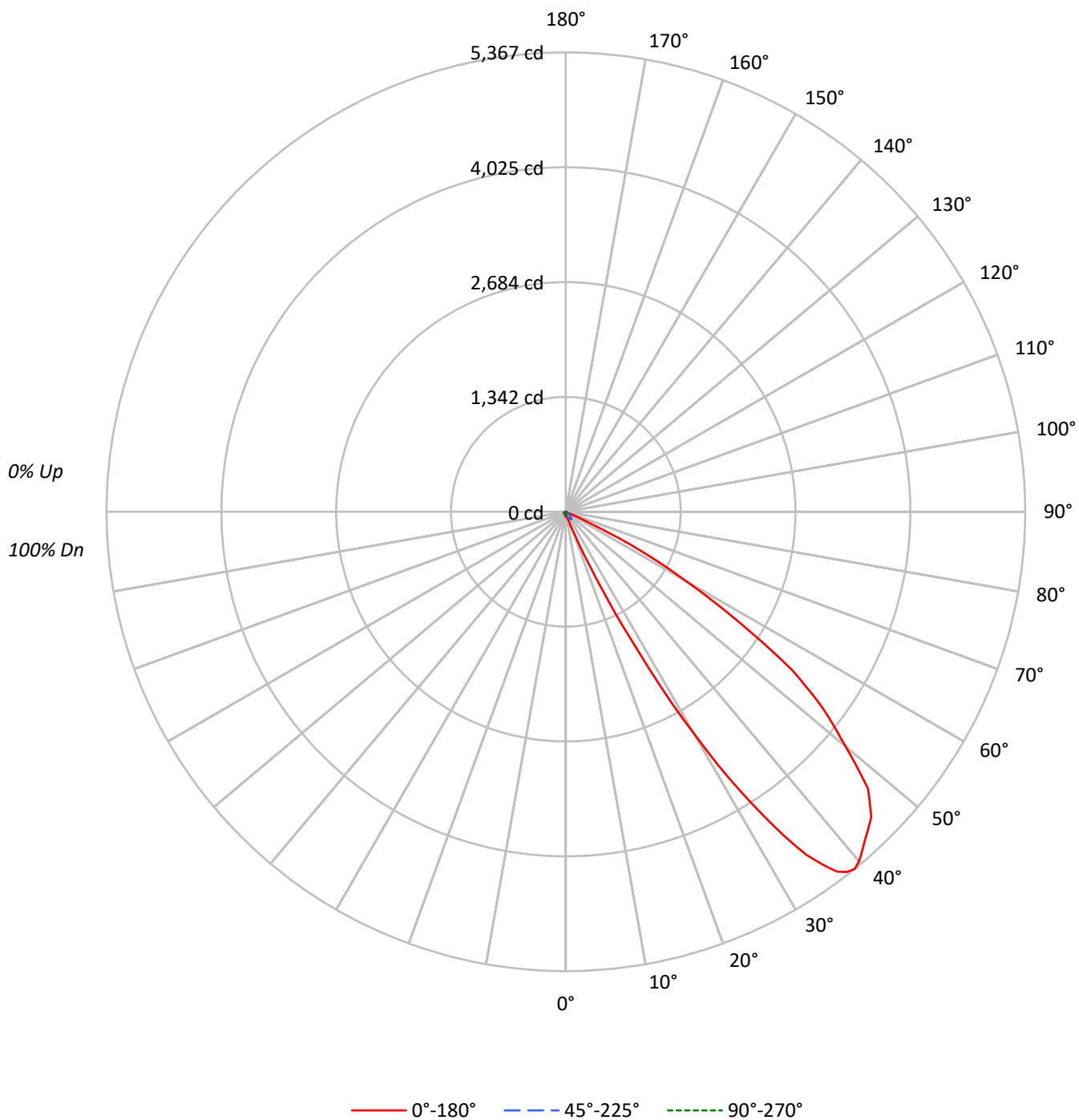
Lumens per Lamp: N/A
Luminaire Lumens: 1395.1 lumens
Efficiency: N/A
Efficacy: 68.4 lumens/watt
Spacing Criteria (0/90/45): 4.07 / 0.66 / 1.44
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 20.4
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	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87		
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73		
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61		
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	52	50		
5	75	62	52	46	73	60	52	45	58	51	45	56	50	44	54	49	44	42		
6	68	54	45	38	66	53	44	38	51	43	37	49	42	37	48	42	37	35		
7	62	48	38	32	60	47	38	32	45	37	31	44	36	31	42	36	31	29		
8	56	42	33	27	55	41	33	27	40	32	26	39	32	26	37	31	26	24		
9	52	37	29	23	50	37	28	23	36	28	22	34	27	22	33	27	22	20		
10	48	33	25	19	46	33	25	19	32	24	19	31	24	19	30	24	19	17		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	9317	9317	9317	9317	9317
5°	9958	9750	9145	8333	8125
10°	10895	9653	8009	7188	6995
15°	15922	9646	6704	6080	6294
20°	40064	10557	5168	5168	5810
25°	185998	13169	4029	4694	5359
30°	592162	18236	3043	4435	5369
35°	1027509	22244	2481	4205	5445
40°	1198339	22190	1844	4227	5553
45°	1228953	15734	1997	4579	6016
50°	1142886	8815	1581	4716	6939
55°	971344	4594	1772	5285	7777
60°	560998	1206	2032	5683	8508
65°	114430	0	2404	6724	9577
70°	1762	604	2971	7704	11229
75°	1597	799	3127	7852	13308
80°	1190	1190	4661	9323	15174
85°	0	2371	9287	9287	18575

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1228953 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.9	0.4
10°-20°	14.1	1.0
20°-30°	80.5	5.8
30°-40°	375.8	26.9
40°-50°	531.4	38.1
50°-60°	326.9	23.4
60°-70°	49.8	3.6
70°-80°	7.9	0.6
80°-90°	3.9	0.3
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°	99.4	7.1
0°-40°	475.2	34.1
0°-60°	1333.4	95.6
0°-90°	1395.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1395.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	54	54	54	54	54	
5°	58	56	53	48	47	6
15°	89	54	38	34	35	32
25°	979	69	21	25	28	602
35°	4887	106	12	20	26	2933
45°	5046	65	8	19	25	3825
55°	3235	15	6	18	26	2753
65°	281	0	6	16	24	508
75°	2	1	5	12	20	3
85°	0	1	5	5	9	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1
2.5°	55.2	55.2	56.4	56.4	55.2	56.4	56.4	56.4	54.1	52.9	50.5
5°	57.6	57.6	57.6	58.8	57.6	57.6	56.4	55.2	52.9	49.4	48.2
7.5°	59.9	59.9	58.8	59.9	58.8	58.8	56.4	54.1	50.5	47.0	44.7
10°	62.3	62.3	61.1	61.1	59.9	59.9	55.2	51.7	45.8	42.3	41.1
12.5°	69.3	69.3	68.2	67.0	64.6	63.5	54.1	48.2	41.1	37.6	36.4
15°	89.3	88.1	85.8	82.3	76.4	75.2	54.1	44.7	37.6	34.1	34.1
17.5°	122.2	121.0	117.5	108.1	97.5	94.0	54.1	40.0	32.9	30.6	30.6
20°	218.6	209.2	191.5	168.0	143.4	130.4	57.6	35.3	28.2	27.0	28.2
21°	285.5	276.1	253.8	215.0	171.6	157.5	59.9	34.1	27.0	25.9	28.2
22°	389.0	378.4	332.6	279.7	217.4	192.7	61.1	31.7	24.7	24.7	27.0
23°	542.9	525.3	447.7	363.1	271.4	236.2	63.5	30.6	23.5	24.7	25.9
24°	710.9	695.7	607.5	480.6	346.7	296.1	65.8	29.4	22.3	22.3	24.7
25°	978.8	961.2	804.9	606.3	439.5	356.1	69.3	27.0	21.2	21.2	24.7
26°	1325.5	1244.4	1036.4	781.4	541.7	446.5	72.9	25.9	20.0	21.2	23.5
27°	1654.5	1587.5	1353.7	1002.4	669.8	548.8	77.6	24.7	18.8	20.0	23.5
28°	2087.0	1993.0	1698.0	1267.9	843.7	663.9	82.3	23.5	17.6	20.0	22.3
29°	2571.1	2439.5	2083.4	1566.4	1040.0	793.2	87.0	22.3	16.5	18.8	22.3
30°	2977.7	2854.3	2498.2	1920.1	1265.6	963.6	91.7	21.2	15.3	18.8	22.3
31°	3454.8	3267.9	2836.7	2219.7	1459.5	1134.0	96.4	18.8	14.1	17.6	21.2
32°	3841.4	3710.9	3252.6	2558.2	1714.5	1322.0	99.9	17.6	14.1	17.6	21.2
33°	4215.0	4040.0	3596.9	2882.5	1944.8	1514.7	103.4	16.5	12.9	16.5	21.2
34°	4572.3	4411.3	3922.4	3144.5	2162.2	1698.0	105.8	14.1	12.9	16.5	20.0
35°	4887.2	4700.4	4209.2	3400.7	2385.4	1864.9	105.8	12.9	11.8	15.3	20.0
36°	5091.7	4957.7	4458.3	3653.4	2587.5	2023.5	105.8	11.8	10.6	15.3	18.8
37°	5266.7	5110.5	4658.1	3847.2	2736.8	2150.4	105.8	10.6	10.6	15.3	18.8
38°	5338.4	5204.5	4795.5	4018.8	2876.6	2279.7	104.6	9.4	9.4	14.1	18.8
39°	5366.6	5246.8	4898.9	4142.2	2980.0	2366.6	102.2	8.2	9.4	14.1	18.8
40°	5330.2	5239.7	4951.8	4222.1	3062.3	2430.1	98.7	7.1	8.2	14.1	18.8
42.5°	5179.8	5119.9	4940.1	4302.0	3132.8	2477.1	85.8	4.7	8.2	12.9	18.8
45°	5045.8	4980.0	4821.4	4218.6	3041.1	2384.3	64.6	2.4	8.2	12.9	18.8
47.5°	4786.1	4745.0	4620.5	4005.9	2840.2	2175.1	45.8	1.2	7.1	11.8	17.6
50°	4265.6	4226.8	4062.3	3478.3	2443.0	1839.0	32.9	1.2	5.9	11.8	17.6
52.5°	3799.1	3757.9	3521.7	2891.9	1876.6	1347.8	21.2	1.2	5.9	11.8	17.6
55°	3235.0	3163.3	2853.1	2195.1	1330.2	903.6	15.3	1.2	5.9	10.6	17.6
57.5°	2394.8	2290.2	2012.9	1497.1	766.2	490.0	8.2	1.2	5.9	10.6	17.6
60°	1628.7	1566.4	1259.7	789.7	326.7	206.8	3.5	1.2	5.9	10.6	16.5
62.5°	987.1	908.3	633.4	336.1	141.0	94.0	0.0	2.4	5.9	10.6	16.5
65°	280.8	249.1	165.7	76.4	40.0	30.6	0.0	2.4	5.9	10.6	16.5
67.5°	9.4	9.4	9.4	8.2	5.9	5.9	1.2	2.4	5.9	10.6	15.3
70°	3.5	3.5	3.5	2.4	2.4	1.2	1.2	2.4	5.9	9.4	15.3
72.5°	2.4	2.4	2.4	2.4	1.2	1.2	1.2	2.4	4.7	8.2	14.1
75°	2.4	2.4	2.4	1.2	1.2	1.2	1.2	3.5	4.7	8.2	11.8
77.5°	2.4	2.4	2.4	1.2	1.2	1.2	1.2	3.5	4.7	7.1	11.8
80°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	3.5	4.7	7.1	9.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
82.5°	1.2	1.2	1.2	0.0	0.0	0.0	1.2	3.5	4.7	4.7	7.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	1.2	3.5	4.7	3.5	4.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.2	3.5	3.5	3.5	2.4
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):

	157.5°	180°
0°	54.1	54.1
2.5°	50.5	50.5
5°	47.0	47.0
7.5°	43.5	43.5
10°	40.0	40.0
12.5°	37.6	37.6
15°	34.1	35.3
17.5°	31.7	32.9
20°	30.6	31.7
21°	30.6	31.7
22°	29.4	30.6
23°	29.4	30.6
24°	28.2	29.4
25°	27.0	28.2
26°	27.0	28.2
27°	27.0	28.2
28°	25.9	28.2
29°	25.9	27.0
30°	25.9	27.0
31°	24.7	27.0
32°	24.7	27.0
33°	24.7	25.9
34°	23.5	25.9
35°	23.5	25.9
36°	23.5	25.9
37°	23.5	24.7
38°	23.5	25.9
39°	23.5	24.7
40°	23.5	24.7
42.5°	23.5	24.7
45°	23.5	24.7
47.5°	23.5	25.9
50°	23.5	25.9
52.5°	23.5	25.9
55°	23.5	25.9
57.5°	23.5	24.7
60°	23.5	24.7
62.5°	22.3	24.7
65°	22.3	23.5
67.5°	22.3	23.5
70°	21.2	22.3
72.5°	20.0	21.2
75°	17.6	20.0
77.5°	16.5	17.6
80°	14.1	15.3



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CANDELA DISTRIBUTION (continued):

	157.5°	180°
82.5°	11.8	11.8
85°	8.2	9.4
87.5°	4.7	4.7
90°	0.0	0.0

(END OF REPORT)