

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: P1308455

Luminaire Tested: P3SQAS24R309030D010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1308455
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: P3SQAS24R309030D010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R30 optic, 3000K CCT AND, 90CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

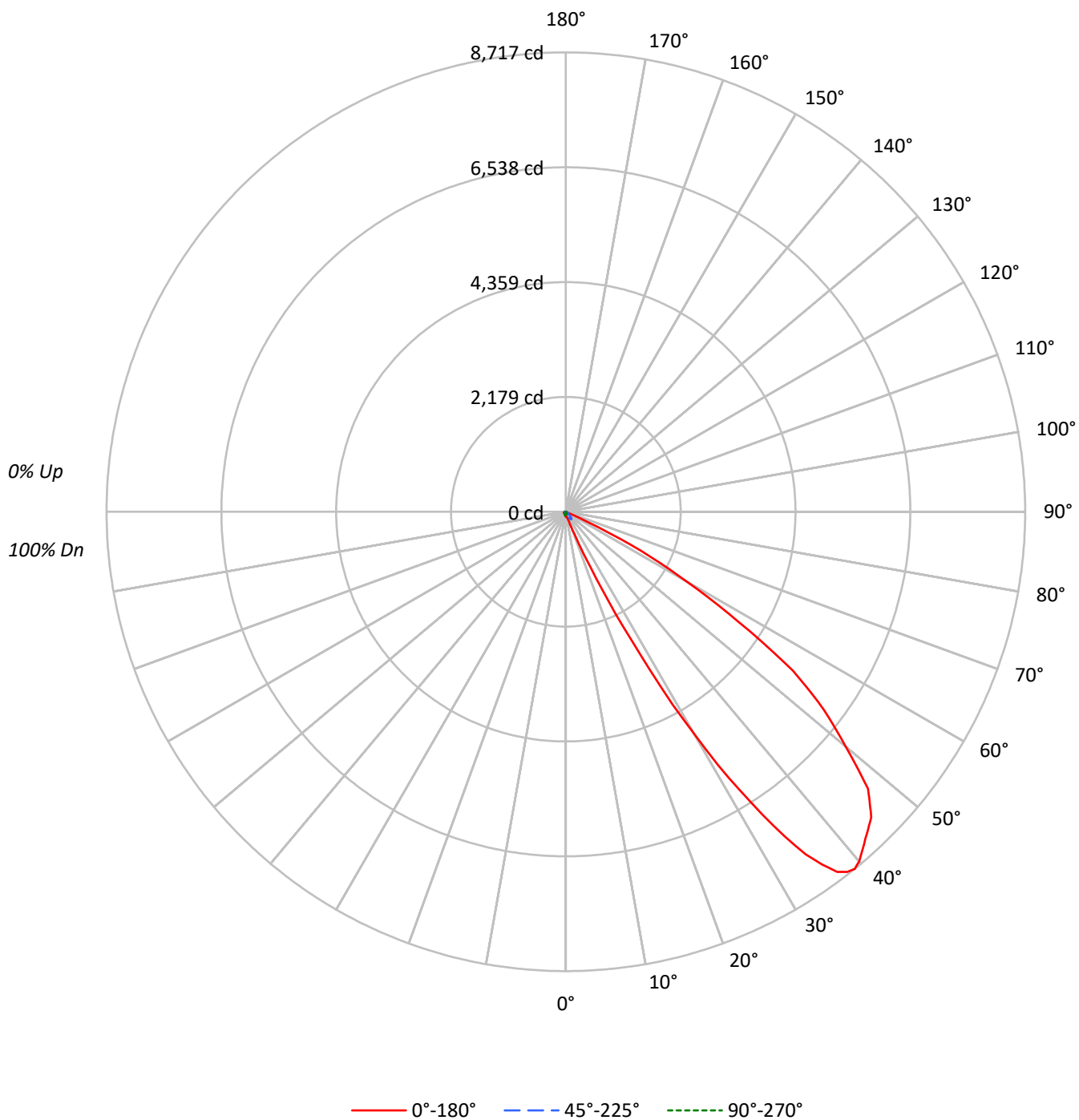
Lumens per Lamp: N/A
Luminaire Lumens: 2266.0 lumens
Efficiency: N/A
Efficacy: 78.7 lumens/watt
Spacing Criteria (0/90/45): 4.07 / 0.66 / 1.44
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 28.8
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°	15121	15121	15121	15121	15121
5°	16164	15836	14850	13537	13208
10°	17698	15687	13011	11682	11350
15°	25871	15655	10894	9878	10216
20°	65063	17136	8394	8394	9439
25°	302142	21397	6537	7620	8703
30°	961893	29611	4932	7219	8730
35°	1669051	36120	4016	6812	8830
40°	1946543	36039	3013	6857	9015
45°	1996288	25574	3264	7429	9767
50°	1856466	14308	2545	7663	11253
55°	1577842	7446	2852	8587	12611
60°	911264	1963	3272	9197	13812
65°	185908	0	3871	10881	15567
70°	2870	957	4784	12488	18279
75°	2529	1264	5057	12709	21560
80°	1884	1884	7538	15174	24596
85°	0	3754	15018	15018	30233

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1996288 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.9	0.4
10°-20°	22.8	1.0
20°-30°	130.7	5.8
30°-40°	610.3	26.9
40°-50°	863.1	38.1
50°-60°	531.0	23.4
60°-70°	80.9	3.6
70°-80°	12.8	0.6
80°-90°	6.4	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°	161.5	7.1
0°-40°	771.8	34.1
0°-60°	2165.9	95.6
0°-90°	2266.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2266.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	88	88	88	88	88	
5°	94	92	86	78	76	9
15°	145	88	61	55	57	52
25°	1590	113	34	40	46	978
35°	7939	172	19	32	42	4764
45°	8196	105	13	30	40	6214
55°	5255	25	10	29	42	4471
65°	456	0	10	27	38	826
75°	4	2	8	19	32	4
85°	0	2	8	8	15	1
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°	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8
2.5°	89.7	89.7	91.6	91.6	89.7	91.6	91.6	91.6	87.8	85.9	82.1
5°	93.5	93.5	93.5	95.4	93.5	93.5	91.6	89.7	85.9	80.2	78.3
7.5°	97.3	97.3	95.4	97.3	95.4	95.4	91.6	87.8	82.1	76.4	72.5
10°	101.2	101.2	99.3	99.3	97.3	97.3	89.7	84.0	74.4	68.7	66.8
12.5°	112.6	112.6	110.7	108.8	105.0	103.1	87.8	78.3	66.8	61.1	59.2
15°	145.1	143.2	139.3	133.6	124.1	122.2	87.8	72.5	61.1	55.4	55.4
17.5°	198.5	196.6	190.9	175.6	158.4	152.7	87.8	64.9	53.4	49.6	49.6
20°	355.0	339.8	311.1	273.0	232.9	211.9	93.5	57.3	45.8	43.9	45.8
21°	463.8	448.6	412.3	349.3	278.7	255.8	97.3	55.4	43.9	42.0	45.8
22°	631.8	614.6	540.2	454.3	353.1	313.0	99.3	51.5	40.1	40.1	43.9
23°	881.9	853.2	727.2	589.8	440.9	383.7	103.1	49.6	38.2	40.1	42.0
24°	1154.8	1130.0	986.8	780.7	563.1	481.0	106.9	47.7	36.3	36.3	40.1
25°	1590.0	1561.4	1307.5	984.9	713.9	578.4	112.6	43.9	34.4	34.4	40.1
26°	2153.1	2021.4	1683.5	1269.3	879.9	725.3	118.3	42.0	32.4	34.4	38.2
27°	2687.6	2578.8	2198.9	1628.2	1088.0	891.4	126.0	40.1	30.5	32.4	38.2
28°	3390.0	3237.3	2758.2	2059.6	1370.5	1078.5	133.6	38.2	28.6	32.4	36.3
29°	4176.4	3962.6	3384.3	2544.4	1689.3	1288.4	141.2	36.3	26.7	30.5	36.3
30°	4836.9	4636.4	4058.1	3119.0	2055.8	1565.2	148.9	34.4	24.8	30.5	36.3
31°	5611.8	5308.3	4607.8	3605.7	2370.7	1842.0	156.5	30.5	22.9	28.6	34.4
32°	6239.8	6027.9	5283.5	4155.4	2784.9	2147.4	162.2	28.6	22.9	28.6	34.4
33°	6846.8	6562.4	5842.8	4682.2	3159.0	2460.4	168.0	26.7	21.0	26.7	34.4
34°	7427.1	7165.6	6371.5	5107.9	3512.2	2758.2	171.8	22.9	21.0	26.7	32.4
35°	7938.6	7635.1	6837.3	5524.0	3874.8	3029.2	171.8	21.0	19.1	24.8	32.4
36°	8270.8	8053.2	7241.9	5934.4	4203.1	3286.9	171.8	19.1	17.2	24.8	30.5
37°	8555.2	8301.3	7566.4	6249.4	4445.6	3493.1	171.8	17.2	17.2	24.8	30.5
38°	8671.6	8454.0	7789.7	6528.0	4672.7	3703.0	169.9	15.3	15.3	22.9	30.5
39°	8717.4	8522.7	7957.7	6728.5	4840.7	3844.3	166.1	13.4	15.3	22.9	30.5
40°	8658.2	8511.3	8043.6	6858.3	4974.3	3947.4	160.3	11.5	13.4	22.9	30.5
42.5°	8413.9	8316.6	8024.5	6988.1	5088.8	4023.7	139.3	7.6	13.4	21.0	30.5
45°	8196.3	8089.4	7831.7	6852.5	4939.9	3872.9	105.0	3.8	13.4	21.0	30.5
47.5°	7774.5	7707.7	7505.3	6507.0	4613.5	3533.2	74.4	1.9	11.5	19.1	28.6
50°	6928.9	6865.9	6598.7	5650.0	3968.4	2987.2	53.4	1.9	9.5	19.1	28.6
52.5°	6171.1	6104.3	5720.6	4697.5	3048.3	2189.4	34.4	1.9	9.5	19.1	28.6
55°	5254.9	5138.4	4634.5	3565.6	2160.7	1467.9	24.8	1.9	9.5	17.2	28.6
57.5°	3890.1	3720.2	3269.7	2431.8	1244.5	796.0	13.4	1.9	9.5	17.2	28.6
60°	2645.6	2544.4	2046.2	1282.7	530.6	335.9	5.7	1.9	9.5	17.2	26.7
62.5°	1603.4	1475.5	1028.8	545.9	229.1	152.7	0.0	3.8	9.5	17.2	26.7
65°	456.2	404.7	269.1	124.1	64.9	49.6	0.0	3.8	9.5	17.2	26.7
67.5°	15.3	15.3	15.3	13.4	9.5	9.5	1.9	3.8	9.5	17.2	24.8
70°	5.7	5.7	5.7	3.8	3.8	1.9	1.9	3.8	9.5	15.3	24.8
72.5°	3.8	3.8	3.8	3.8	1.9	1.9	1.9	3.8	7.6	13.4	22.9
75°	3.8	3.8	3.8	1.9	1.9	1.9	1.9	5.7	7.6	13.4	19.1
77.5°	3.8	3.8	3.8	1.9	1.9	1.9	1.9	5.7	7.6	11.5	19.1
80°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	5.7	7.6	11.5	15.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
82.5°	1.9	1.9	1.9	0.0	0.0	0.0	1.9	5.7	7.6	7.6	11.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	1.9	5.7	7.6	5.7	7.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.9	5.7	5.7	5.7	3.8
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°	87.8	87.8
2.5°	82.1	82.1
5°	76.4	76.4
7.5°	70.6	70.6
10°	64.9	64.9
12.5°	61.1	61.1
15°	55.4	57.3
17.5°	51.5	53.4
20°	49.6	51.5
21°	49.6	51.5
22°	47.7	49.6
23°	47.7	49.6
24°	45.8	47.7
25°	43.9	45.8
26°	43.9	45.8
27°	43.9	45.8
28°	42.0	45.8
29°	42.0	43.9
30°	42.0	43.9
31°	40.1	43.9
32°	40.1	43.9
33°	40.1	42.0
34°	38.2	42.0
35°	38.2	42.0
36°	38.2	42.0
37°	38.2	40.1
38°	38.2	42.0
39°	38.2	40.1
40°	38.2	40.1
42.5°	38.2	40.1
45°	38.2	40.1
47.5°	38.2	42.0
50°	38.2	42.0
52.5°	38.2	42.0
55°	38.2	42.0
57.5°	38.2	40.1
60°	38.2	40.1
62.5°	36.3	40.1
65°	36.3	38.2
67.5°	36.3	38.2
70°	34.4	36.3
72.5°	32.4	34.4
75°	28.6	32.4
77.5°	26.7	28.6
80°	22.9	24.8



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CANDELA DISTRIBUTION (continued):

	157.5°	180°
82.5°	19.1	19.1
85°	13.4	15.3
87.5°	7.6	7.6
90°	0.0	0.0

(END OF REPORT)