

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: P1309819

Luminaire Tested: P3SQAS02R609040DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1309819
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-81)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS02R609040DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R60 optic, 4000K CCT AND, 90CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

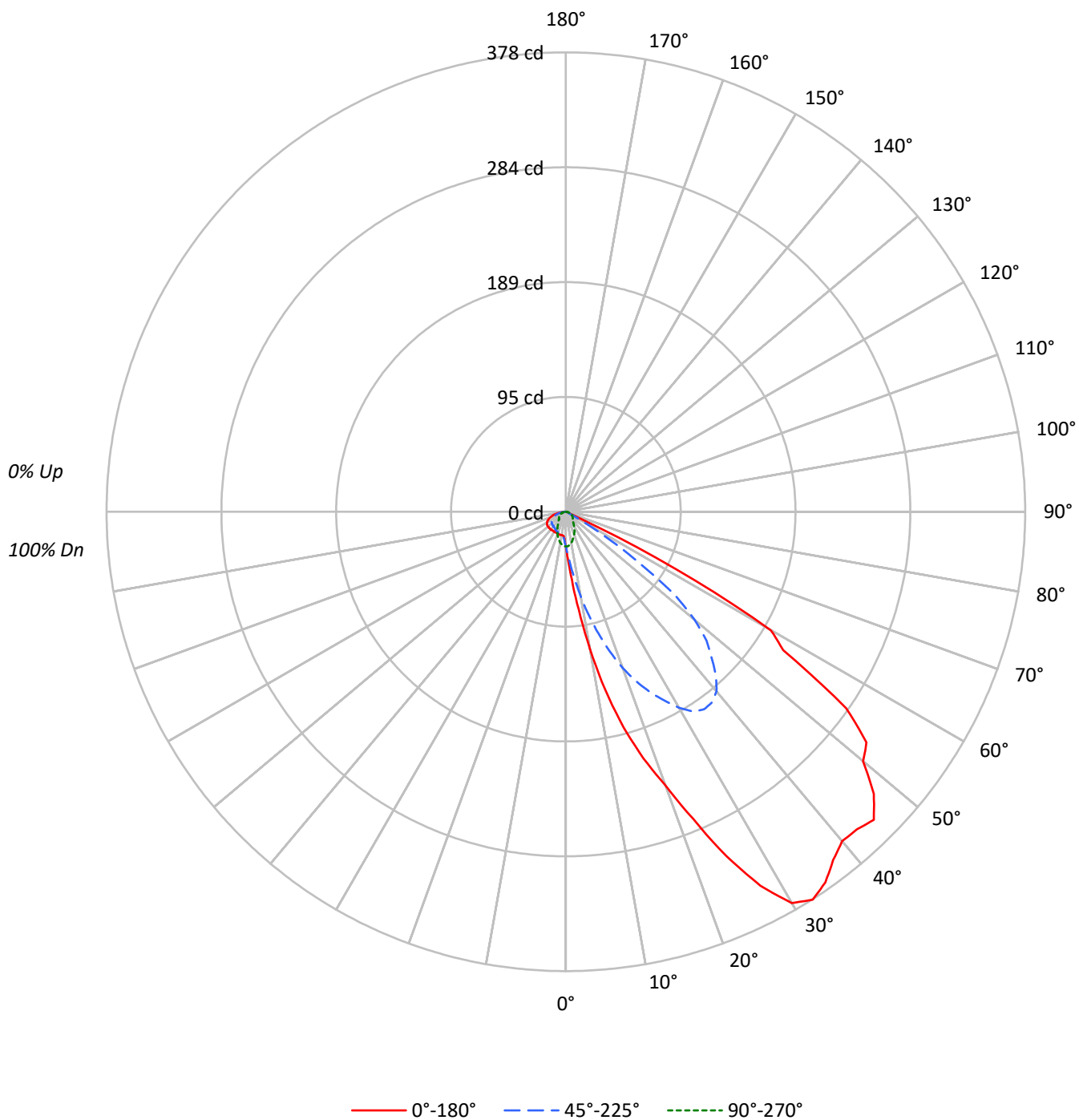
Lumens per Lamp: N/A
Luminaire Lumens: 288.0 lumens
Efficiency: N/A
Efficacy: 80.0 lumens/watt
Spacing Criteria (0/90/45): 3.39 / 0.84 / 2.07
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 3.6
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	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	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76	74		
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62		
4	84	72	64	58	82	71	63	57	69	62	56	66	60	56	64	59	55	53		
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45		
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39		
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33		
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29		
9	55	42	33	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25		
10	52	38	30	25	50	38	30	25	37	29	24	36	29	24	35	29	24	22		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	4908	4908	4908	4908	4908
5°	9681	7555	4841	3665	3492
10°	20006	12312	4529	3340	3393
15°	32718	18490	4065	3352	3459
20°	43894	25054	3647	3354	3501
25°	59402	31088	3192	3325	3630
30°	73938	37009	2665	3341	3798
35°	78274	41713	2250	3406	3953
40°	79519	43368	2068	3530	4294
45°	87292	41308	1973	3751	4652
50°	85577	37028	1956	3992	5117
55°	84584	22730	1952	4324	5645
60°	67098	5408	2067	4616	6131
65°	4279	978	2038	4686	6602
70°	906	1057	1964	4884	6999
75°	865	1065	1730	4724	7120
80°	793	992	1785	4661	6744
85°	593	988	1976	4150	6719

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°

Vertical Angle: 52.5°

Luminance: 92143 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.6	1.2
10°-20°	18.0	6.2
20°-30°	41.6	14.5
30°-40°	64.7	22.5
40°-50°	73.8	25.6
50°-60°	62.1	21.6
60°-70°	18.0	6.3
70°-80°	4.6	1.6
80°-90°	1.6	0.5
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°	63.2	21.9
0°-40°	127.9	44.4
0°-60°	263.8	91.6
0°-90°	288.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	288.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	28	28	28	28	28	
5°	56	44	28	21	20	7
15°	184	104	23	19	19	53
25°	313	164	17	18	19	145
35°	372	198	11	16	19	231
45°	358	170	8	15	19	269
55°	282	76	6	14	19	237
65°	10	2	5	12	16	52
75°	1	2	3	7	11	1
85°	0	0	1	2	3	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	28.5	28.5	28.5	28.5	28.5	28.5	28.5	28.5	28.5	28.5	28.5
2.5°	38.5	38.2	38.2	38.0	37.7	37.4	36.7	36.4	34.8	31.7	28.5
5°	56.0	55.8	55.0	54.7	53.4	51.6	49.7	47.9	43.7	34.8	28.0
7.5°	81.2	81.7	81.2	78.3	76.4	73.6	68.1	64.1	55.8	38.0	27.0
10°	114.4	114.4	113.6	109.2	105.2	99.7	92.7	85.9	70.4	40.8	25.9
12.5°	150.5	151.3	147.4	143.7	136.7	129.9	120.2	110.0	87.2	43.2	24.6
15°	183.5	183.0	179.1	174.4	167.0	157.6	147.4	134.3	103.7	44.8	22.8
17.5°	212.8	211.8	208.4	203.2	194.3	183.8	170.7	156.6	120.7	46.1	21.5
20°	239.5	235.9	232.0	226.5	217.8	206.8	193.2	177.2	136.7	46.1	19.9
22.5°	273.3	269.6	264.2	255.8	244.3	230.6	214.7	196.6	150.8	45.0	18.3
25°	312.6	309.7	300.3	289.5	274.6	258.4	239.8	215.5	163.6	43.5	16.8
27.5°	346.9	343.7	334.3	318.6	300.5	281.2	261.5	236.7	174.9	40.6	14.9
30°	371.8	367.8	360.5	345.6	323.6	300.0	276.7	252.9	186.1	37.2	13.4
32.5°	378.3	377.8	372.3	361.3	341.6	315.7	288.0	262.1	195.0	32.7	12.0
35°	372.3	373.1	372.0	366.5	352.1	326.7	295.3	267.0	198.4	28.3	10.7
37.5°	361.3	362.3	364.2	364.9	355.8	333.3	299.5	269.1	197.7	23.8	9.9
40°	353.7	353.2	353.2	358.4	356.6	336.1	300.0	267.6	192.9	19.1	9.2
42.5°	354.5	348.7	344.8	353.2	355.8	334.8	296.6	263.4	182.7	14.7	8.4
45°	358.4	346.1	339.3	350.0	354.2	330.4	290.3	257.1	169.6	10.2	8.1
47.5°	343.7	335.6	334.6	349.8	351.3	322.8	280.6	247.1	157.1	7.1	7.6
50°	319.4	318.1	323.6	339.3	339.5	310.2	269.6	229.1	138.2	5.0	7.3
52.5°	311.8	312.6	317.6	325.7	318.1	289.0	249.8	213.9	114.4	3.9	7.1
55°	281.7	283.0	287.7	292.7	287.2	263.1	225.7	195.6	75.7	3.7	6.5
57.5°	212.1	215.5	224.1	228.5	229.1	214.4	204.5	168.6	42.7	3.7	6.3
60°	194.8	190.3	186.4	177.2	168.9	167.0	168.1	126.4	15.7	3.4	6.0
62.5°	101.8	99.7	105.8	109.7	110.7	116.5	108.9	66.8	3.4	3.4	5.5
65°	10.5	10.5	12.8	17.0	28.3	37.7	35.9	19.4	2.4	3.1	5.0
67.5°	3.1	3.1	3.1	3.7	4.7	4.7	3.9	2.9	2.4	2.9	4.5
70°	1.8	1.8	1.8	1.8	1.8	1.8	2.1	1.8	2.1	2.6	3.9
72.5°	1.6	1.6	1.6	1.6	1.8	1.8	1.8	1.8	1.8	2.4	3.4
75°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.6	1.6	1.8	2.6
77.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.3	1.3	1.3	1.6	2.1
80°	0.8	0.8	0.8	0.8	0.8	1.0	1.0	1.0	1.0	1.3	1.8
82.5°	0.5	0.5	0.5	0.5	0.8	0.8	0.8	0.8	0.8	1.0	1.3
85°	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.8	1.0
87.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.5	0.8
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):

	112.5°	135°	157.5°	180°
0°	28.5	28.5	28.5	28.5
2.5°	25.9	24.1	23.0	22.5
5°	23.6	21.2	20.4	20.2
7.5°	21.5	19.9	19.6	19.6
10°	20.2	19.1	19.4	19.4
12.5°	19.4	19.1	19.4	19.6
15°	18.6	18.8	19.4	19.4
17.5°	18.1	18.6	19.1	19.4
20°	17.3	18.3	19.1	19.1
22.5°	16.8	18.1	18.8	19.1
25°	16.2	17.5	18.6	19.1
27.5°	15.4	17.3	18.6	18.8
30°	14.7	16.8	18.3	19.1
32.5°	13.9	16.5	18.3	18.8
35°	13.4	16.2	18.3	18.8
37.5°	12.8	16.0	18.3	19.1
40°	12.6	15.7	18.1	19.1
42.5°	12.0	15.7	18.1	19.1
45°	11.8	15.4	18.1	19.1
47.5°	11.5	15.2	18.1	19.1
50°	11.0	14.9	17.8	19.1
52.5°	10.7	14.7	17.8	19.1
55°	10.2	14.4	17.5	18.8
57.5°	9.9	13.9	17.3	18.3
60°	9.4	13.4	16.8	17.8
62.5°	8.6	12.6	16.0	17.3
65°	7.9	11.5	15.2	16.2
67.5°	7.1	10.7	14.1	15.2
70°	6.3	9.7	12.8	13.9
72.5°	5.5	8.4	11.5	12.3
75°	4.7	7.1	9.7	10.7
77.5°	3.7	5.8	8.1	8.9
80°	2.9	4.7	6.3	6.8
82.5°	2.4	3.4	4.7	5.0
85°	1.6	2.1	2.9	3.4
87.5°	0.8	1.0	1.3	1.6
90°	0.0	0.0	0.0	0.0

(END OF REPORT)