

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: P1312999

Luminaire Tested: P3SQAS02R709730DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1312999
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-83)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS02R709730DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R70 optic, 3000K CCT AND, 97CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

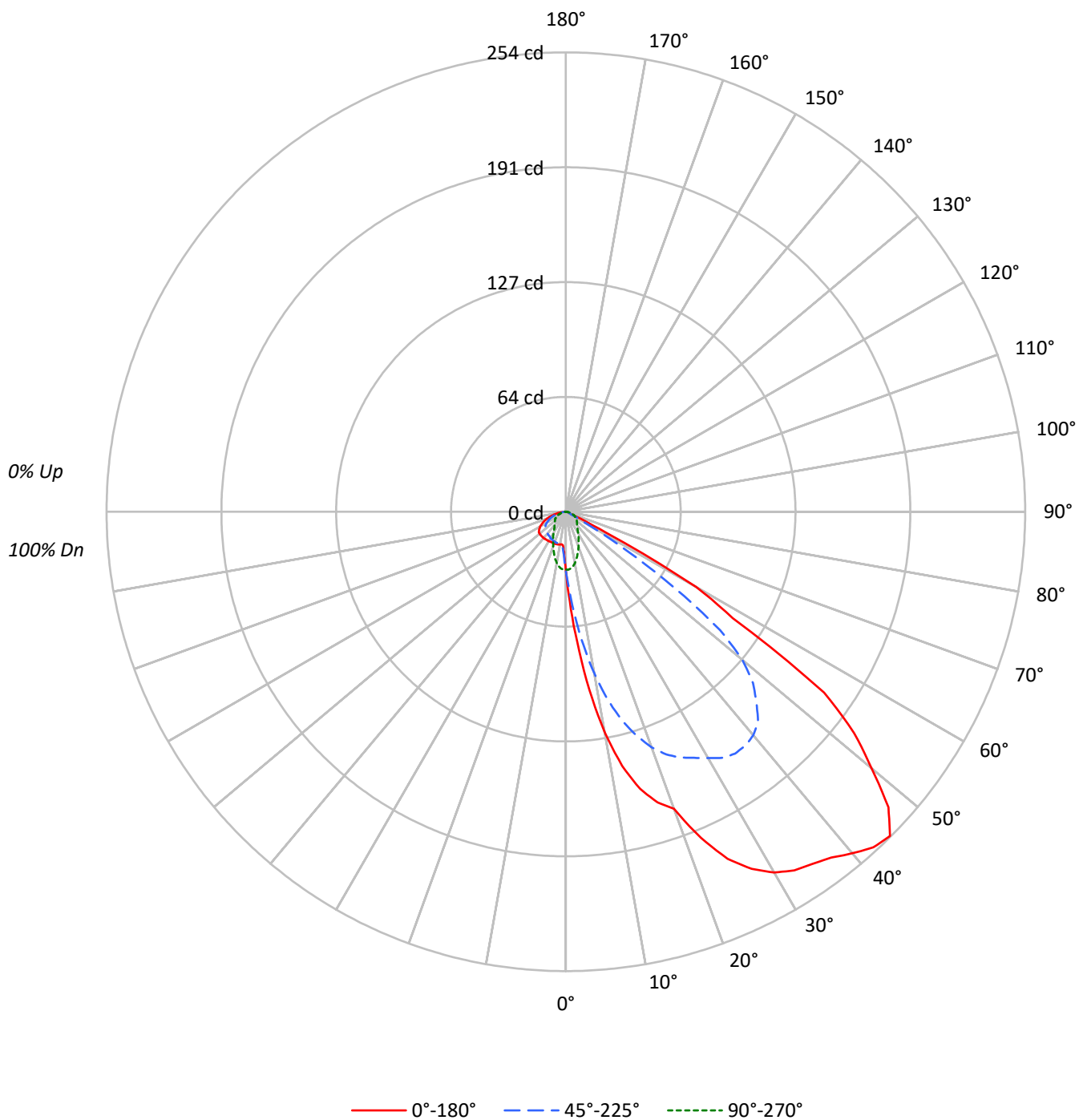
Lumens per Lamp: N/A
Luminaire Lumens: 219.0 lumens
Efficiency: N/A
Efficacy: 60.8 lumens/watt
Spacing Criteria (0/90/45): 2.92 / 0.77 / 2.03
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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				20
RC	80				70				50				30				10				0
RW	70	50	30	10	70	50	30	10	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	110	106	103	99	108	104	101	98	100	97	95	96	94	92	93	91	89	87			
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	75			
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	74	69	66	64			
4	85	74	66	59	83	72	65	59	70	63	58	68	62	57	66	61	57	54			
5	78	66	57	51	76	65	57	51	63	55	50	61	54	49	59	53	49	47			
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	41			
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	35			
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33	31			
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28			
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	5494	5494	5494	5494	5494
5°	12499	10010	5446	3440	3216
10°	21668	15897	5037	3130	3218
15°	28278	21235	4404	3192	3316
20°	32037	25384	3757	3244	3446
25°	40229	28485	3154	3287	3534
30°	45799	31282	2685	3341	3739
35°	49975	34312	2334	3406	3953
40°	55418	36264	2158	3530	4272
45°	61742	36290	2119	3726	4628
50°	59132	34134	2117	3912	5037
55°	52366	22099	2162	4144	5435
60°	28658	4753	2170	4202	5649
65°	2038	1141	2119	4197	5705
70°	1007	1108	1964	3978	5489
75°	865	1131	1863	3793	5057
80°	893	1091	1686	3471	4761
85°	790	1383	1778	2964	4347

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 61742 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.2	1.9
10°-20°	17.8	8.1
20°-30°	34.1	15.6
30°-40°	48.3	22.0
40°-50°	54.6	24.9
50°-60°	43.3	19.8
60°-70°	11.7	5.3
70°-80°	3.9	1.8
80°-90°	1.2	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°	56.1	25.6
0°-40°	104.4	47.7
0°-60°	202.3	92.4
0°-90°	219.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	219.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	32	32	32	32	32	
5°	72	58	32	20	19	9
15°	159	119	25	18	19	45
25°	212	150	17	17	19	97
35°	238	163	11	16	19	150
45°	254	149	9	15	19	190
55°	174	74	7	14	18	142
65°	5	3	5	10	14	18
75°	1	2	3	6	8	1
85°	0	1	1	2	2	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9
2.5°	49.6	49.6	49.4	48.5	48.1	47.0	46.1	43.7	37.8	32.1	27.5
5°	72.3	73.4	71.9	71.7	70.4	68.4	67.1	57.9	43.7	31.5	23.6
7.5°	99.2	99.6	99.2	97.0	95.0	91.8	88.7	74.3	49.6	30.4	20.8
10°	123.9	123.2	121.9	120.4	117.6	114.1	108.8	90.9	55.3	28.8	19.0
12.5°	144.0	143.8	142.2	140.7	137.2	132.6	127.4	106.0	60.1	26.9	18.1
15°	158.6	158.6	157.1	155.4	152.1	148.4	142.5	119.1	64.0	24.7	17.3
17.5°	168.5	168.0	166.9	165.6	163.0	159.3	154.7	129.6	66.6	22.5	17.0
20°	174.8	174.6	173.7	171.7	169.6	166.7	162.6	138.5	67.7	20.5	16.8
22.5°	195.1	193.4	190.1	185.9	180.7	173.9	168.2	145.3	67.3	18.4	16.4
25°	211.7	211.1	207.6	202.5	195.6	186.8	177.4	149.9	65.1	16.6	16.0
27.5°	222.6	221.6	218.3	212.8	205.4	196.9	188.1	153.4	62.1	15.1	15.3
30°	230.3	229.6	226.4	220.2	212.6	203.2	194.2	157.3	57.9	13.5	14.6
32.5°	235.1	234.4	231.2	225.7	218.3	208.4	198.2	161.3	52.9	12.2	14.0
35°	237.7	237.1	233.4	228.5	221.6	211.9	201.0	163.2	46.8	11.1	13.3
37.5°	241.0	239.7	234.7	228.8	221.8	212.8	201.9	163.0	40.6	10.3	12.9
40°	246.5	243.0	235.8	227.9	220.7	211.7	201.2	161.3	33.9	9.6	12.5
42.5°	251.7	246.7	236.0	226.6	218.5	209.8	198.8	157.3	26.4	9.2	12.2
45°	253.5	246.0	232.9	223.5	215.9	206.9	195.6	149.0	17.9	8.7	11.8
47.5°	241.9	236.4	225.5	218.5	211.3	202.5	190.7	140.3	10.3	8.3	11.4
50°	220.7	217.2	211.1	206.7	202.8	196.6	185.1	127.4	6.1	7.9	10.9
52.5°	201.0	199.9	195.6	192.1	189.9	187.0	176.5	107.5	5.0	7.6	10.5
55°	174.4	170.9	169.8	168.5	173.0	172.8	158.6	73.6	4.8	7.2	10.1
57.5°	109.5	111.0	116.7	127.2	139.6	146.8	146.4	39.3	4.6	6.8	9.4
60°	83.2	83.0	84.8	89.1	98.3	108.6	118.2	13.8	4.4	6.3	9.0
62.5°	24.9	25.6	30.8	45.2	54.2	66.9	61.0	3.3	4.2	5.7	8.1
65°	5.0	5.2	5.2	5.9	7.2	10.9	13.3	2.8	3.9	5.2	7.4
67.5°	2.2	2.2	2.2	2.4	2.4	2.8	2.4	2.6	3.5	4.6	6.6
70°	2.0	2.0	2.0	2.0	2.0	2.0	2.2	2.2	3.1	3.9	5.7
72.5°	1.5	1.5	1.5	1.7	1.7	1.7	1.7	2.0	2.6	3.3	4.8
75°	1.3	1.3	1.3	1.3	1.5	1.5	1.5	1.7	2.2	2.8	3.9
77.5°	1.1	1.1	1.1	1.1	1.1	1.3	1.3	1.3	1.7	2.2	3.3
80°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.1	1.3	1.7	2.4
82.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.9	1.1	1.3	1.7
85°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.7	0.7	0.9	1.1
87.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.7
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):

	135°	157.5°	180°
0°	31.9	31.9	31.9
2.5°	24.3	22.9	22.3
5°	19.9	18.8	18.6
7.5°	18.4	18.1	18.1
10°	17.9	18.1	18.4
12.5°	17.9	18.4	18.6
15°	17.9	18.4	18.6
17.5°	17.9	18.4	18.6
20°	17.7	18.4	18.8
22.5°	17.5	18.4	18.6
25°	17.3	18.4	18.6
27.5°	17.0	18.1	18.6
30°	16.8	18.1	18.8
32.5°	16.4	18.1	18.8
35°	16.2	18.1	18.8
37.5°	16.0	18.1	19.0
40°	15.7	18.1	19.0
42.5°	15.5	18.1	19.0
45°	15.3	17.9	19.0
47.5°	14.9	17.9	19.0
50°	14.6	17.7	18.8
52.5°	14.2	17.5	18.8
55°	13.8	17.0	18.1
57.5°	13.1	16.4	17.3
60°	12.2	15.5	16.4
62.5°	11.1	14.4	15.1
65°	10.3	13.1	14.0
67.5°	9.0	11.6	12.5
70°	7.9	10.1	10.9
72.5°	6.8	8.5	9.4
75°	5.7	7.0	7.6
77.5°	4.4	5.7	6.1
80°	3.5	4.4	4.8
82.5°	2.4	3.1	3.3
85°	1.5	2.0	2.2
87.5°	0.7	0.9	0.9
90°	0.0	0.0	0.0

(END OF REPORT)