

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: P1314930

Luminaire Tested: P3SQAS02R609740DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1314930
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: P3SQAS02R609740DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R60 optic, 4000K CCT AND, 97CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

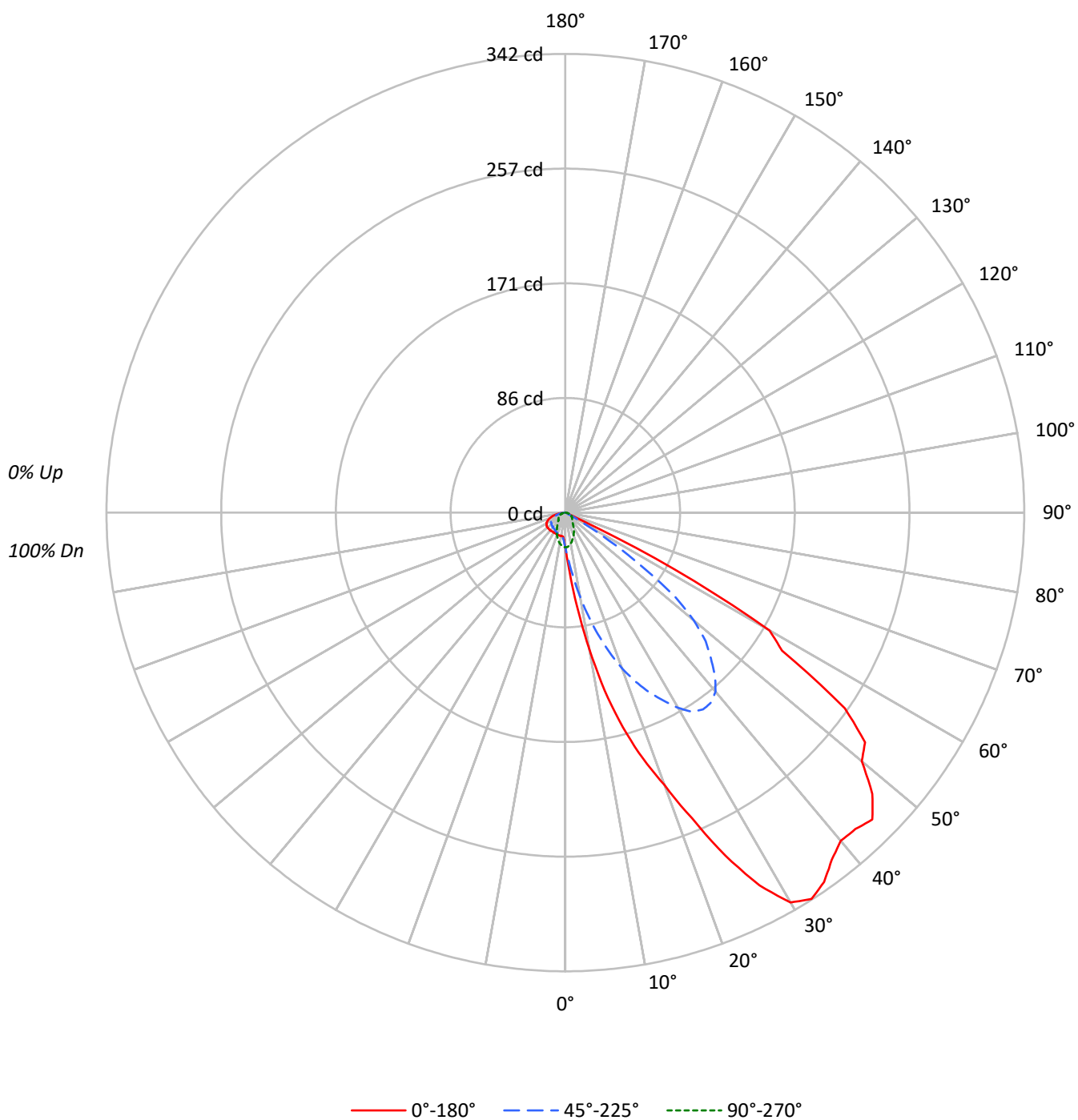
Lumens per Lamp: N/A
Luminaire Lumens: 260.0 lumens
Efficiency: N/A
Efficacy: 72.2 lumens/watt
Spacing Criteria (0/90/45): 3.38 / 0.83 / 2.07
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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°	4443	4443	4443	4443	4443
5°	8748	6829	4374	3302	3146
10°	18065	11122	4092	3025	3060
15°	29544	16689	3673	3031	3120
20°	39642	22616	3299	3024	3171
25°	53626	28067	2869	3002	3287
30°	66739	33409	2406	3003	3440
35°	70663	37655	2039	3091	3574
40°	71785	39164	1866	3192	3889
45°	78816	37313	1778	3385	4214
50°	77244	33438	1768	3617	4635
55°	76356	20508	1772	3903	5104
60°	60553	4891	1860	4168	5546
65°	3871	856	1834	4238	5990
70°	856	957	1762	4381	6294
75°	799	932	1597	4259	6455
80°	694	893	1686	4265	6050
85°	395	988	1778	3754	6126

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°

Vertical Angle: 52.5°

Luminance: 83175 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.2	1.2
10°-20°	16.2	6.2
20°-30°	37.6	14.5
30°-40°	58.4	22.5
40°-50°	66.6	25.6
50°-60°	56.1	21.6
60°-70°	16.3	6.3
70°-80°	4.2	1.6
80°-90°	1.4	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°	57.0	21.9
0°-40°	115.5	44.4
0°-60°	238.2	91.6
0°-90°	260.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	260.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	26	26	26	26	26	
5°	51	40	25	19	18	6
15°	166	94	21	17	18	48
25°	282	148	15	16	17	131
35°	336	179	10	15	17	209
45°	324	153	7	14	17	243
55°	254	68	6	13	17	214
65°	10	2	4	10	15	47
75°	1	1	2	6	10	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°	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8
2.5°	34.7	34.5	34.5	34.3	34.0	33.8	33.1	32.9	31.4	28.6	25.8
5°	50.6	50.3	49.6	49.4	48.2	46.6	44.9	43.3	39.5	31.4	25.3
7.5°	73.3	73.7	73.3	70.7	69.0	66.4	61.4	57.9	50.3	34.3	24.3
10°	103.3	103.3	102.6	98.6	95.0	90.0	83.7	77.5	63.6	36.9	23.4
12.5°	135.9	136.6	133.1	129.8	123.4	117.2	108.5	99.3	78.7	39.0	22.2
15°	165.7	165.2	161.7	157.4	150.8	142.3	133.1	121.2	93.6	40.4	20.6
17.5°	192.1	191.2	188.1	183.4	175.4	165.9	154.1	141.3	109.0	41.6	19.4
20°	216.3	212.9	209.4	204.4	196.6	186.7	174.4	160.0	123.4	41.6	18.0
22.5°	246.7	243.4	238.5	230.9	220.5	208.2	193.8	177.5	136.1	40.7	16.5
25°	282.2	279.6	271.1	261.4	247.9	233.3	216.5	194.5	147.7	39.2	15.1
27.5°	313.2	310.3	301.8	287.6	271.3	253.8	236.1	213.7	157.9	36.6	13.5
30°	335.6	332.1	325.4	312.0	292.1	270.8	249.8	228.3	168.0	33.6	12.1
32.5°	341.5	341.0	336.1	326.2	308.4	285.0	260.0	236.6	176.1	29.5	10.9
35°	336.1	336.8	335.8	330.9	317.9	295.0	266.6	241.1	179.1	25.5	9.7
37.5°	326.2	327.1	328.8	329.5	321.2	300.9	270.4	243.0	178.4	21.5	9.0
40°	319.3	318.8	318.8	323.6	321.9	303.5	270.8	241.5	174.2	17.3	8.3
42.5°	320.0	314.8	311.3	318.8	321.2	302.3	267.8	237.8	165.0	13.2	7.6
45°	323.6	312.4	306.3	316.0	319.8	298.3	262.1	232.1	153.2	9.2	7.3
47.5°	310.3	303.0	302.0	315.8	317.2	291.4	253.4	223.1	141.8	6.4	6.9
50°	288.3	287.2	292.1	306.3	306.5	280.1	243.4	206.8	124.8	4.5	6.6
52.5°	281.5	282.2	286.7	294.0	287.2	260.9	225.5	193.1	103.3	3.5	6.4
55°	254.3	255.5	259.7	264.2	259.3	237.5	203.7	176.5	68.3	3.3	5.9
57.5°	191.4	194.5	202.3	206.3	206.8	193.6	184.6	152.2	38.5	3.3	5.7
60°	175.8	171.8	168.3	160.0	152.4	150.8	151.7	114.2	14.2	3.1	5.4
62.5°	91.9	90.0	95.5	99.0	100.0	105.2	98.3	60.3	3.1	3.1	5.0
65°	9.5	9.5	11.6	15.4	25.5	34.0	32.4	17.5	2.1	2.8	4.5
67.5°	2.8	2.8	2.8	3.3	4.3	4.3	3.5	2.6	2.1	2.6	4.0
70°	1.7	1.7	1.7	1.7	1.7	1.7	1.9	1.7	1.9	2.4	3.5
72.5°	1.4	1.4	1.4	1.4	1.7	1.7	1.7	1.7	1.7	2.1	3.1
75°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.4	1.4	1.7	2.4
77.5°	0.9	0.9	0.9	0.9	0.9	0.9	1.2	1.2	1.2	1.4	1.9
80°	0.7	0.7	0.7	0.7	0.7	0.9	0.9	0.9	0.9	1.2	1.7
82.5°	0.5	0.5	0.5	0.5	0.7	0.7	0.7	0.7	0.7	0.9	1.2
85°	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.7	0.9
87.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5	0.5	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):

	112.5°	135°	157.5°	180°
0°	25.8	25.8	25.8	25.8
2.5°	23.4	21.7	20.8	20.3
5°	21.3	19.1	18.4	18.2
7.5°	19.4	18.0	17.7	17.7
10°	18.2	17.3	17.5	17.5
12.5°	17.5	17.3	17.5	17.7
15°	16.8	17.0	17.5	17.5
17.5°	16.3	16.8	17.3	17.5
20°	15.6	16.5	17.3	17.3
22.5°	15.1	16.3	17.0	17.3
25°	14.7	15.8	16.8	17.3
27.5°	13.9	15.6	16.8	17.0
30°	13.2	15.1	16.5	17.3
32.5°	12.5	14.9	16.5	17.0
35°	12.1	14.7	16.5	17.0
37.5°	11.6	14.4	16.5	17.3
40°	11.3	14.2	16.3	17.3
42.5°	10.9	14.2	16.3	17.3
45°	10.6	13.9	16.3	17.3
47.5°	10.4	13.7	16.3	17.3
50°	9.9	13.5	16.1	17.3
52.5°	9.7	13.2	16.1	17.3
55°	9.2	13.0	15.8	17.0
57.5°	9.0	12.5	15.6	16.5
60°	8.5	12.1	15.1	16.1
62.5°	7.8	11.3	14.4	15.6
65°	7.1	10.4	13.7	14.7
67.5°	6.4	9.7	12.8	13.7
70°	5.7	8.7	11.6	12.5
72.5°	5.0	7.6	10.4	11.1
75°	4.3	6.4	8.7	9.7
77.5°	3.3	5.2	7.3	8.0
80°	2.6	4.3	5.7	6.1
82.5°	2.1	3.1	4.3	4.5
85°	1.4	1.9	2.6	3.1
87.5°	0.7	0.9	1.2	1.4
90°	0.0	0.0	0.0	0.0

(END OF REPORT)