

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: P1308708

Luminaire Tested: P3SQAS02R659035DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1308708
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-82)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS02R659035DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R65 optic, 3500K CCT AND, 90CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

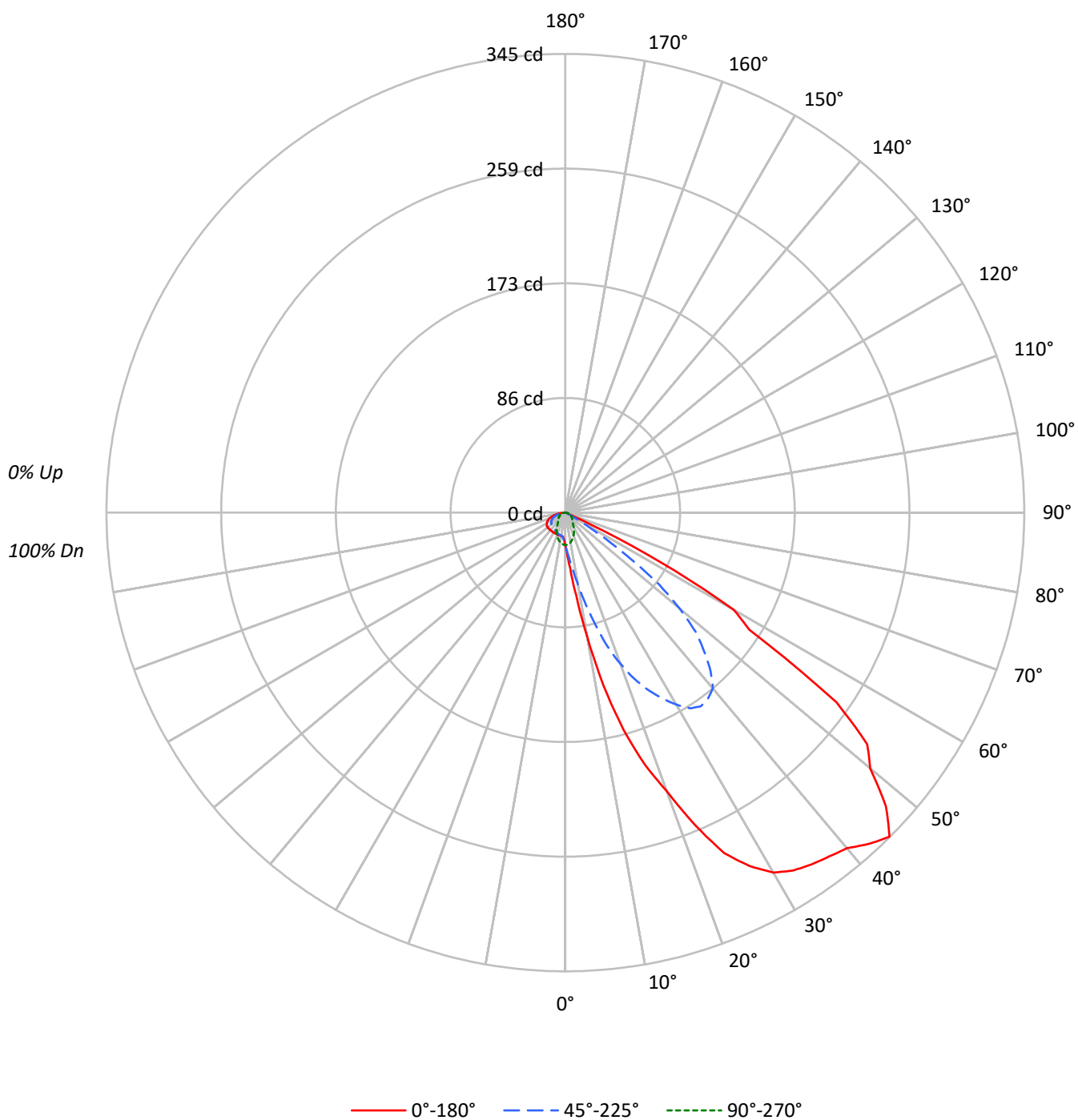
Lumens per Lamp: N/A
Luminaire Lumens: 250.0 lumens
Efficiency: N/A
Efficacy: 69.4 lumens/watt
Spacing Criteria (0/90/45): 3.28 / 0.89 / 2.04
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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			0
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	94	91	92	90	89	87		
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	74		
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	64	62		
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55	53		
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45		
6	71	57	49	42	69	57	48	42	55	47	42	53	46	41	51	46	41	39		
7	65	52	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	34		
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29		
9	56	42	34	28	54	41	33	28	40	33	28	39	33	28	38	32	28	26		
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	4185	4185	4185	4185	4185
5°	7330	5982	4115	3337	3198
10°	16579	9636	3952	3060	3113
15°	30115	15512	3673	3085	3174
20°	40834	22140	3299	3079	3207
25°	53683	27953	2907	3002	3287
30°	62165	33151	2486	2983	3440
35°	67888	37361	2102	3049	3637
40°	74056	38782	1866	3215	3889
45°	83955	35949	1778	3410	4214
50°	80192	30008	1742	3617	4635
55°	74735	16845	1802	3903	5104
60°	50323	3617	1826	4133	5511
65°	7784	937	1752	4279	6031
70°	906	906	1662	4431	6445
75°	865	865	1530	4325	6521
80°	793	992	1488	3967	6447
85°	593	988	1581	3952	5928

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 83955 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.9	1.2
10°-20°	15.9	6.4
20°-30°	37.3	14.9
30°-40°	56.4	22.6
40°-50°	64.9	25.9
50°-60°	51.5	20.6
60°-70°	15.4	6.2
70°-80°	4.2	1.7
80°-90°	1.4	0.6
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°	56.2	22.5
0°-40°	112.6	45.0
0°-60°	228.9	91.6
0°-90°	250.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	250.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	24	24	24	24	24	
5°	42	35	24	19	18	6
15°	169	87	21	17	18	49
25°	282	147	15	16	17	129
35°	323	178	10	14	17	203
45°	345	148	7	14	17	256
55°	249	56	6	13	17	205
65°	19	2	4	10	15	43
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°	22.5°	45°	67.5°	90°	112.5°	135°
0°	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3
2.5°	30.8	31.1	30.8	30.8	30.6	30.3	28.6	26.6	24.3	22.6	21.3
5°	42.4	42.6	41.9	41.9	41.4	40.6	34.6	28.8	23.8	21.1	19.3
7.5°	62.7	63.7	62.4	60.9	58.2	57.7	43.1	31.1	23.3	19.6	18.0
10°	94.8	94.0	92.7	89.7	85.0	82.7	55.1	33.3	22.6	18.5	17.5
12.5°	133.6	131.6	130.1	124.6	118.1	114.3	70.2	35.3	21.6	17.5	17.3
15°	168.9	167.4	163.9	158.7	150.7	147.6	87.0	36.6	20.6	16.8	17.3
17.5°	198.8	197.3	195.3	190.0	181.7	177.2	105.8	37.3	19.3	16.3	17.0
20°	222.8	221.8	219.1	214.8	206.5	202.3	120.8	37.3	18.0	15.8	16.8
22.5°	253.9	251.7	248.2	241.9	231.6	225.1	135.1	36.6	16.8	15.3	16.3
25°	282.5	281.0	276.5	269.0	257.9	251.4	147.1	35.1	15.3	14.5	15.8
27.5°	299.5	298.5	294.3	286.5	274.2	269.2	157.2	32.8	13.8	13.8	15.5
30°	312.6	310.6	306.3	298.8	286.3	280.2	166.7	30.1	12.5	13.0	15.0
32.5°	319.1	318.3	314.6	308.1	295.8	289.0	174.5	26.6	11.0	12.5	14.8
35°	322.9	322.1	319.1	312.8	301.3	294.8	177.7	23.3	10.0	12.0	14.5
37.5°	325.9	325.1	321.4	315.1	303.6	296.8	176.2	19.8	9.0	11.5	14.3
40°	329.4	326.6	320.9	314.6	304.1	297.5	172.5	16.5	8.3	11.3	14.3
42.5°	337.9	328.4	319.3	313.6	303.6	296.0	161.7	13.0	7.5	10.8	14.0
45°	344.7	327.9	316.3	311.8	301.6	293.0	147.6	9.5	7.3	10.5	14.0
47.5°	326.9	316.6	311.3	308.8	297.8	288.5	133.1	6.5	7.0	10.3	13.8
50°	299.3	298.0	296.0	296.3	286.3	278.7	112.0	4.5	6.5	10.0	13.5
52.5°	286.0	284.5	281.0	278.5	268.5	261.9	88.7	3.5	6.3	9.8	13.3
55°	248.9	249.9	246.2	247.7	244.7	241.4	56.1	3.3	6.0	9.3	13.0
57.5°	163.9	168.9	177.7	188.3	197.8	204.3	30.3	3.3	5.5	9.0	12.5
60°	146.1	144.9	144.6	146.6	150.9	154.4	10.5	3.0	5.3	8.3	12.0
62.5°	80.0	79.5	87.0	99.8	107.3	108.0	3.0	3.0	4.8	7.8	11.3
65°	19.1	19.8	22.1	27.6	32.6	35.8	2.3	2.8	4.3	7.3	10.5
67.5°	3.0	3.3	3.3	4.0	4.5	4.5	2.0	2.5	3.8	6.5	9.8
70°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.3	3.3	5.8	8.8
72.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.8	2.0	2.8	5.0	7.5
75°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.8	2.3	4.0	6.5
77.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.3	1.5	2.0	3.3	5.3
80°	0.8	0.8	0.8	0.8	0.8	0.8	1.0	1.3	1.5	2.5	4.0
82.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.8	1.0	1.3	2.0	3.0
85°	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.8	0.8	1.3	2.0
87.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.8	1.0
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°	24.3	24.3
2.5°	20.6	20.3
5°	18.5	18.5
7.5°	17.8	17.8
10°	17.5	17.8
12.5°	17.5	17.8
15°	17.5	17.8
17.5°	17.5	17.8
20°	17.3	17.5
22.5°	17.0	17.3
25°	16.8	17.3
27.5°	16.5	17.3
30°	16.5	17.3
32.5°	16.5	17.3
35°	16.3	17.3
37.5°	16.3	17.3
40°	16.3	17.3
42.5°	16.3	17.3
45°	16.3	17.3
47.5°	16.3	17.3
50°	16.3	17.3
52.5°	16.0	17.3
55°	16.0	17.0
57.5°	15.5	16.5
60°	15.0	16.0
62.5°	14.5	15.5
65°	13.8	14.8
67.5°	13.0	13.8
70°	11.8	12.8
72.5°	10.5	11.3
75°	9.0	9.8
77.5°	7.5	8.3
80°	6.0	6.5
82.5°	4.3	4.8
85°	2.8	3.0
87.5°	1.3	1.3
90°	0.0	0.0

(END OF REPORT)