

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: P1314921

Luminaire Tested: P3SQAS02R559740DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1314921
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-80)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS02R559740DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R55 optic, 4000K CCT AND, 97CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

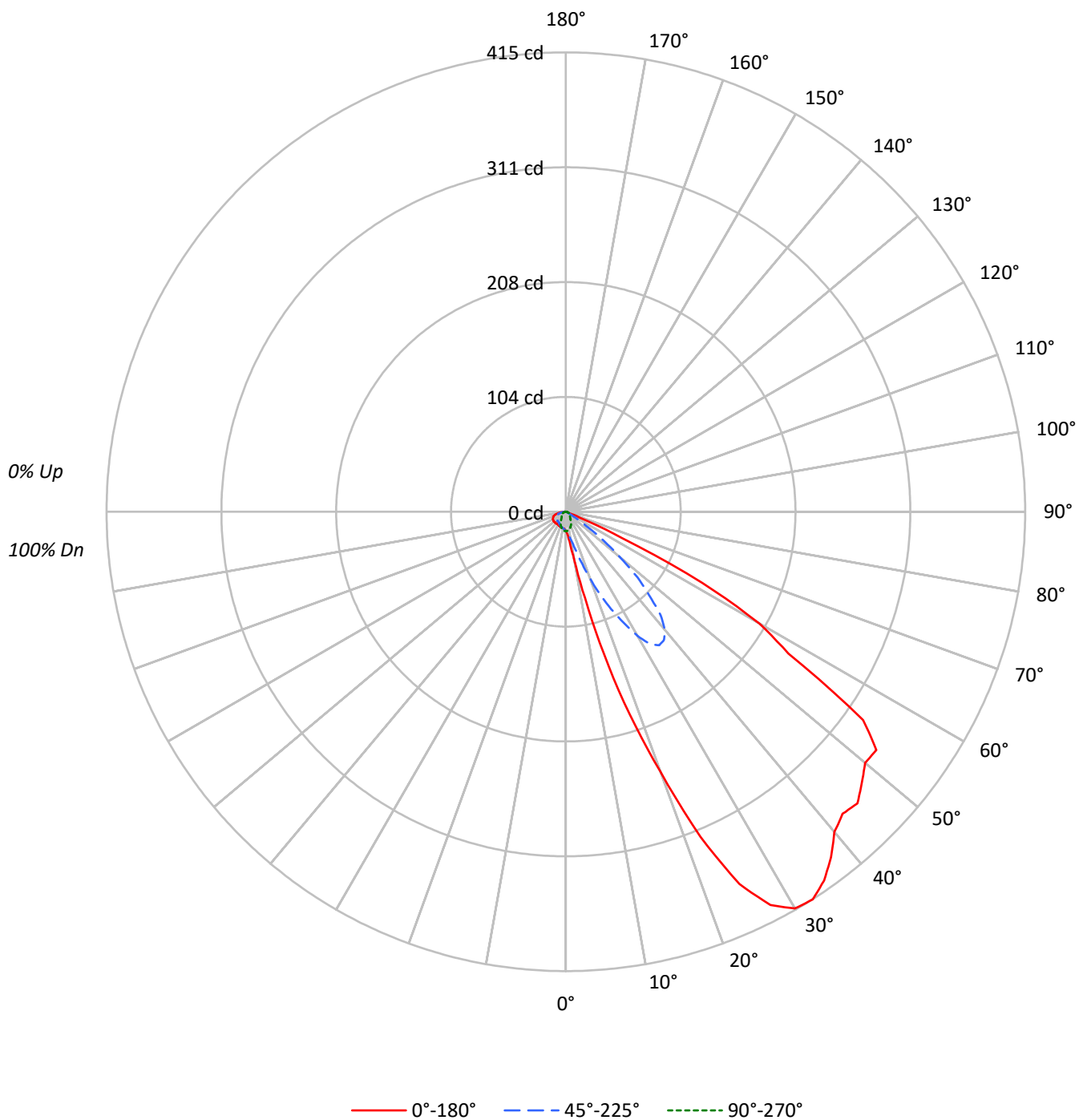
Lumens per Lamp: N/A
Luminaire Lumens: 267.0 lumens
Efficiency: N/A
Efficacy: 74.2 lumens/watt
Spacing Criteria (0/90/45): 3.76 / 0.91 / 1.95
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	110	106	102	99	107	104	100	97	99	97	94	95	93	91	92	90	88
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75
3	91	81	73	67	89	80	72	67	77	71	65	74	69	64	72	67	63
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54
5	76	63	54	47	74	62	53	47	60	52	47	58	51	46	56	50	46
6	69	56	47	40	68	55	46	40	53	46	40	51	45	39	50	44	39
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	38	34
8	59	45	36	30	57	44	36	30	43	35	30	41	35	29	40	34	29
9	54	40	32	26	53	40	32	26	39	31	26	38	31	26	36	30	26
10	50	37	28	23	49	36	28	23	35	28	23	34	27	23	33	27	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	2962	2962	2962	2962	2962
5°	3786	3475	2974	2766	2697
10°	7712	4407	2886	2641	2641
15°	23678	6775	2692	2567	2657
20°	45782	11840	2419	2511	2639
25°	70481	18433	2109	2413	2641
30°	82291	25753	1730	2386	2724
35°	85507	30948	1430	2376	2817
40°	84870	31250	1326	2496	3080
45°	90726	25866	1267	2704	3337
50°	94553	17067	1259	2920	3724
55°	98456	7446	1261	3183	4114
60°	69544	1722	1309	3479	4616
65°	22699	571	1263	3749	5175
70°	705	604	1309	4028	5942
75°	599	599	1131	4259	6588
80°	496	694	1190	4166	7042
85°	395	988	1383	4150	6916

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 100036 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.8	0.7
10°-20°	11.3	4.2
20°-30°	38.0	14.2
30°-40°	62.4	23.4
40°-50°	69.6	26.1
50°-60°	58.6	21.9
60°-70°	19.9	7.4
70°-80°	3.9	1.5
80°-90°	1.5	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°	51.2	19.2
0°-40°	113.6	42.5
0°-60°	241.8	90.6
0°-90°	267.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	267.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	17	17	17	17	17	
5°	22	20	17	16	16	3
15°	133	38	15	14	15	42
25°	371	97	11	13	14	167
35°	407	147	7	11	13	253
45°	372	106	5	11	14	284
55°	328	25	4	11	14	267
65°	56	1	3	9	13	75
75°	1	1	2	6	10	1
85°	0	0	1	2	4	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°	17.2	17.2	17.2	17.2	17.2	17.2	17.2	17.2	17.2	17.2	17.2
2.5°	18.9	18.9	18.9	18.9	18.9	18.9	18.6	17.9	17.5	16.7	16.5
5°	21.9	21.9	21.9	21.7	21.7	21.2	20.1	18.4	17.2	16.3	16.0
7.5°	28.3	28.1	27.6	27.4	26.7	26.4	22.2	18.9	17.0	15.8	15.6
10°	44.1	43.6	42.9	40.3	38.0	36.3	25.2	19.1	16.5	15.3	15.1
12.5°	79.5	78.6	75.0	69.6	63.0	59.7	30.2	19.3	15.8	14.9	14.9
15°	132.8	131.6	125.0	117.5	105.5	98.8	38.0	19.1	15.1	14.2	14.4
17.5°	191.8	188.5	181.7	171.7	155.5	147.7	49.5	18.6	14.2	13.7	14.2
20°	249.8	248.9	237.6	224.1	204.1	193.7	64.6	17.9	13.2	13.0	13.7
22.5°	317.8	313.8	301.7	287.3	259.7	246.1	80.9	17.0	12.3	12.3	13.2
25°	370.9	366.1	356.7	339.9	313.8	299.1	97.0	15.8	11.1	11.6	12.7
27.5°	400.6	395.2	388.1	373.7	353.4	340.4	113.0	14.4	9.9	10.9	12.3
30°	413.8	412.4	407.2	396.6	377.9	366.4	129.5	12.7	8.7	10.1	12.0
32.5°	415.2	415.9	413.8	406.9	392.8	382.9	141.8	11.3	7.8	9.7	11.6
35°	406.7	409.3	410.7	407.9	398.7	390.7	147.2	9.7	6.8	9.2	11.3
37.5°	393.5	398.2	402.9	403.6	398.0	392.8	145.8	8.3	6.4	9.0	11.3
40°	377.5	381.7	391.4	397.5	395.6	391.8	139.0	6.8	5.9	8.5	11.1
42.5°	370.1	371.1	381.5	391.8	391.4	388.3	126.9	5.4	5.4	8.5	11.1
45°	372.5	368.3	375.1	387.1	386.4	382.4	106.2	4.2	5.2	8.3	11.1
47.5°	362.6	356.7	368.3	382.4	379.8	373.9	87.8	3.1	5.0	8.0	10.9
50°	352.9	352.0	360.9	368.0	364.5	361.2	63.7	2.4	4.7	7.8	10.9
52.5°	353.6	352.0	352.9	352.7	345.6	342.1	43.6	1.9	4.5	7.5	10.9
55°	327.9	322.7	317.8	319.2	319.7	317.3	24.8	1.7	4.2	7.5	10.6
57.5°	238.3	236.9	242.3	257.6	269.6	271.1	12.0	1.7	4.0	7.3	10.4
60°	201.9	201.0	201.2	205.7	212.1	208.1	5.0	1.7	3.8	7.1	10.1
62.5°	139.2	148.4	152.2	162.5	158.3	152.6	1.9	1.9	3.5	6.6	9.9
65°	55.7	55.4	60.6	65.6	64.2	59.9	1.4	1.7	3.1	6.1	9.2
67.5°	13.0	11.8	10.1	8.7	7.3	5.9	1.4	1.7	2.8	5.7	8.7
70°	1.4	1.4	1.4	1.4	1.4	1.2	1.2	1.7	2.6	5.2	8.0
72.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.4	2.1	4.5	7.3
75°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.2	1.7	3.8	6.4
77.5°	0.7	0.7	0.7	0.9	0.7	0.9	0.9	1.2	1.4	3.1	5.4
80°	0.5	0.5	0.7	0.7	0.7	0.7	0.7	0.9	1.2	2.6	4.2
82.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.7	0.7	0.9	1.9	3.1
85°	0.2	0.2	0.2	0.2	0.2	0.5	0.5	0.7	0.7	1.4	2.1
87.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.5	0.5	0.7	0.7	0.9
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°	17.2	17.2
2.5°	16.3	16.3
5°	15.8	15.6
7.5°	15.3	15.3
10°	15.1	15.1
12.5°	14.9	15.1
15°	14.9	14.9
17.5°	14.4	14.6
20°	14.2	14.4
22.5°	13.9	14.2
25°	13.7	13.9
27.5°	13.4	13.7
30°	13.2	13.7
32.5°	13.0	13.4
35°	13.0	13.4
37.5°	13.0	13.7
40°	13.0	13.7
42.5°	13.0	13.7
45°	13.0	13.7
47.5°	13.0	13.7
50°	13.0	13.9
52.5°	13.0	13.9
55°	13.0	13.7
57.5°	12.7	13.7
60°	12.7	13.4
62.5°	12.5	13.2
65°	12.0	12.7
67.5°	11.6	12.5
70°	10.9	11.8
72.5°	10.1	10.9
75°	9.2	9.9
77.5°	8.0	8.5
80°	6.4	7.1
82.5°	5.0	5.4
85°	3.3	3.5
87.5°	1.4	1.7
90°	0.0	0.0

(END OF REPORT)