

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: P1316025

Luminaire Tested: P3SQAS05R659827DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1316025
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: P3SQAS05R659827DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R65 optic, 2700K CCT AND, 98CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

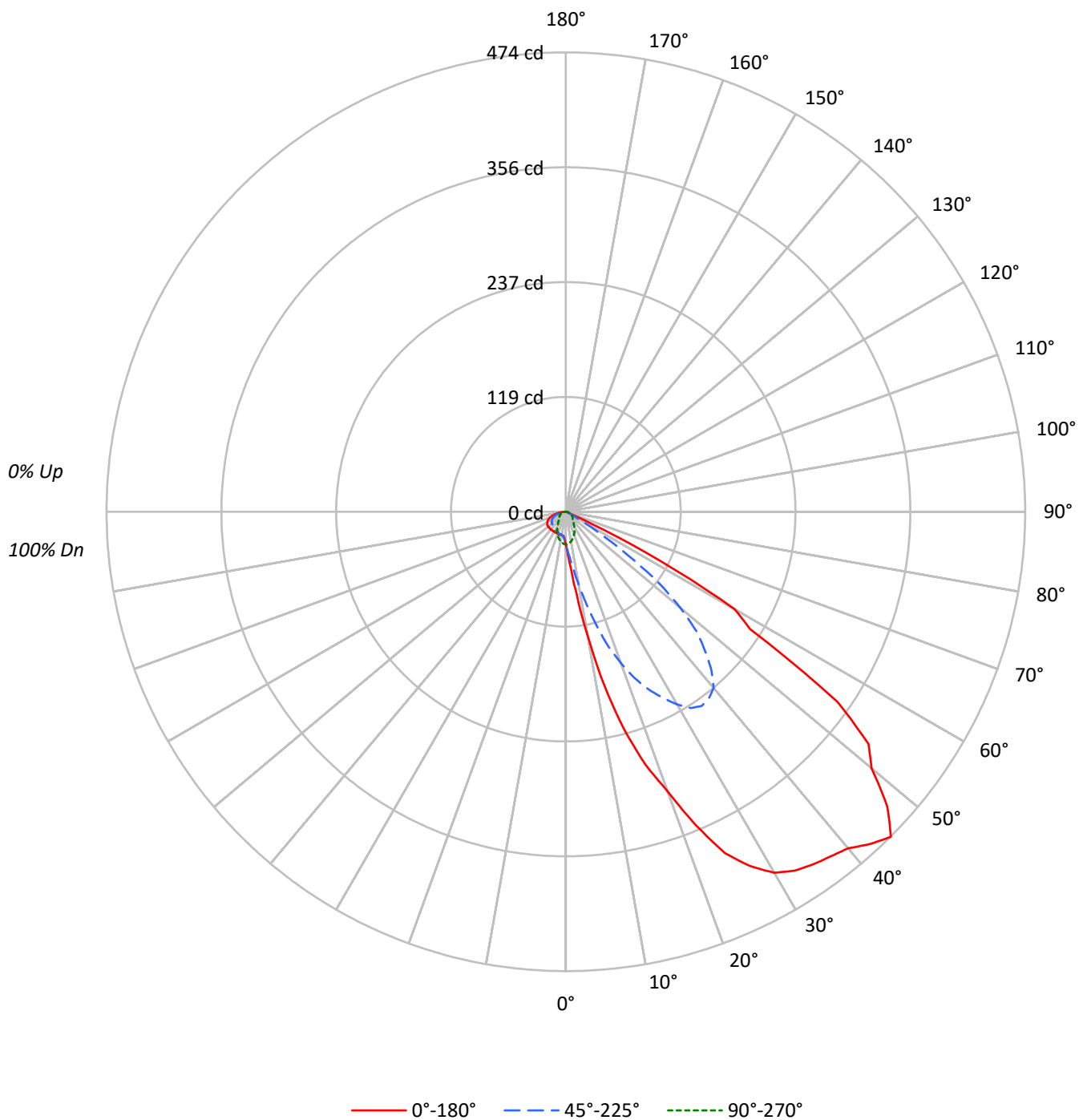
Lumens per Lamp: N/A
Luminaire Lumens: 344.0 lumens
Efficiency: N/A
Efficacy: 47.8 lumens/watt
Spacing Criteria (0/90/45): 3.28 / 0.89 / 2.04
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 7.2
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	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	65	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°	5769	5769	5769	5769	5769
5°	10079	8229	5670	4599	4408
10°	22804	13273	5421	4215	4285
15°	41454	21342	5046	4243	4368
20°	56192	30460	4545	4234	4417
25°	73863	38480	3991	4124	4523
30°	85532	45620	3420	4117	4733
35°	93412	51405	2901	4205	5004
40°	101889	53350	2563	4429	5351
45°	115520	49491	2436	4701	5797
50°	110334	41315	2411	4984	6377
55°	102839	23210	2492	5375	7056
60°	69268	4994	2480	5718	7612
65°	10677	1263	2404	5909	8313
70°	1209	1209	2266	6093	8862
75°	1131	1131	2063	5989	8983
80°	992	1389	2083	5455	8926
85°	593	1383	1976	5533	8102

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 115520 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.1	1.2
10°-20°	21.9	6.4
20°-30°	51.4	14.9
30°-40°	77.6	22.6
40°-50°	89.2	25.9
50°-60°	70.9	20.6
60°-70°	21.2	6.2
70°-80°	5.8	1.7
80°-90°	1.9	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°	77.3	22.5
0°-40°	155.0	45.0
0°-60°	315.1	91.6
0°-90°	344.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	344.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	34	34	34	34	34	
5°	58	48	33	27	26	8
15°	232	120	28	24	24	67
25°	389	202	21	22	24	177
35°	444	244	14	20	24	279
45°	474	203	10	19	24	352
55°	342	77	8	18	24	282
65°	26	3	6	14	20	59
75°	2	2	3	9	14	2
85°	0	1	1	3	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°	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5
2.5°	42.4	42.8	42.4	42.4	42.1	41.7	39.3	36.6	33.5	31.0	29.3
5°	58.3	58.6	57.6	57.6	56.9	55.9	47.6	39.7	32.8	29.0	26.6
7.5°	86.2	87.6	85.9	83.8	80.0	79.3	59.3	42.8	32.1	26.9	24.8
10°	130.4	129.3	127.6	123.5	116.9	113.8	75.9	45.9	31.0	25.5	24.1
12.5°	183.8	181.1	179.0	171.4	162.5	157.3	96.6	48.6	29.7	24.1	23.8
15°	232.5	230.4	225.6	218.3	207.3	203.2	119.7	50.4	28.3	23.1	23.8
17.5°	273.5	271.4	268.7	261.4	250.1	243.9	145.6	51.4	26.6	22.4	23.5
20°	306.6	305.3	301.5	295.6	284.2	278.3	166.2	51.4	24.8	21.7	23.1
22.5°	349.4	346.3	341.5	332.8	318.7	309.7	185.9	50.4	23.1	21.0	22.4
25°	388.7	386.7	380.4	370.1	354.9	346.0	202.5	48.3	21.0	20.0	21.7
27.5°	412.2	410.8	404.9	394.2	377.3	370.4	216.3	45.2	19.0	19.0	21.4
30°	430.1	427.4	421.5	411.1	393.9	385.6	229.4	41.4	17.2	17.9	20.7
32.5°	439.1	438.0	432.9	423.9	407.0	397.7	240.1	36.6	15.2	17.2	20.4
35°	444.3	443.2	439.1	430.5	414.6	405.6	244.5	32.1	13.8	16.6	20.0
37.5°	448.4	447.4	442.2	433.6	417.7	408.4	242.5	27.2	12.4	15.9	19.7
40°	453.2	449.4	441.5	432.9	418.4	409.4	237.3	22.8	11.4	15.5	19.7
42.5°	464.9	451.8	439.4	431.5	417.7	407.3	222.5	17.9	10.3	14.8	19.3
45°	474.3	451.2	435.3	429.1	414.9	403.2	203.2	13.1	10.0	14.5	19.3
47.5°	449.8	435.6	428.4	424.9	409.8	397.0	183.2	9.0	9.7	14.1	19.0
50°	411.8	410.1	407.3	407.7	393.9	383.5	154.2	6.2	9.0	13.8	18.6
52.5°	393.6	391.5	386.7	383.2	369.4	360.4	122.1	4.8	8.6	13.5	18.3
55°	342.5	343.9	338.7	340.8	336.6	332.2	77.3	4.5	8.3	12.8	17.9
57.5°	225.6	232.5	244.5	259.0	272.1	281.1	41.7	4.5	7.6	12.4	17.2
60°	201.1	199.4	199.0	201.8	207.6	212.5	14.5	4.1	7.2	11.4	16.6
62.5°	110.0	109.3	119.7	137.3	147.6	148.7	4.1	4.1	6.6	10.7	15.5
65°	26.2	27.2	30.4	37.9	44.8	49.3	3.1	3.8	5.9	10.0	14.5
67.5°	4.1	4.5	4.5	5.5	6.2	6.2	2.8	3.4	5.2	9.0	13.5
70°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.1	4.5	7.9	12.1
72.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.4	2.8	3.8	6.9	10.3
75°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	2.4	3.1	5.5	9.0
77.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.7	2.1	2.8	4.5	7.2
80°	1.0	1.0	1.0	1.0	1.0	1.0	1.4	1.7	2.1	3.4	5.5
82.5°	0.7	0.7	0.7	0.7	0.7	0.7	1.0	1.4	1.7	2.8	4.1
85°	0.3	0.3	0.3	0.3	0.7	0.7	0.7	1.0	1.0	1.7	2.8
87.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.7	0.7	0.7	1.0	1.4
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°	33.5	33.5
2.5°	28.3	27.9
5°	25.5	25.5
7.5°	24.5	24.5
10°	24.1	24.5
12.5°	24.1	24.5
15°	24.1	24.5
17.5°	24.1	24.5
20°	23.8	24.1
22.5°	23.5	23.8
25°	23.1	23.8
27.5°	22.8	23.8
30°	22.8	23.8
32.5°	22.8	23.8
35°	22.4	23.8
37.5°	22.4	23.8
40°	22.4	23.8
42.5°	22.4	23.8
45°	22.4	23.8
47.5°	22.4	23.8
50°	22.4	23.8
52.5°	22.1	23.8
55°	22.1	23.5
57.5°	21.4	22.8
60°	20.7	22.1
62.5°	20.0	21.4
65°	19.0	20.4
67.5°	17.9	19.0
70°	16.2	17.6
72.5°	14.5	15.5
75°	12.4	13.5
77.5°	10.3	11.4
80°	8.3	9.0
82.5°	5.9	6.6
85°	3.8	4.1
87.5°	1.7	1.7
90°	0.0	0.0

(END OF REPORT)