

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: P1316009

Luminaire Tested: P3SQAS05R559827DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1316009
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: P3SQAS05R559827DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R55 optic, 2700K CCT AND, 98CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

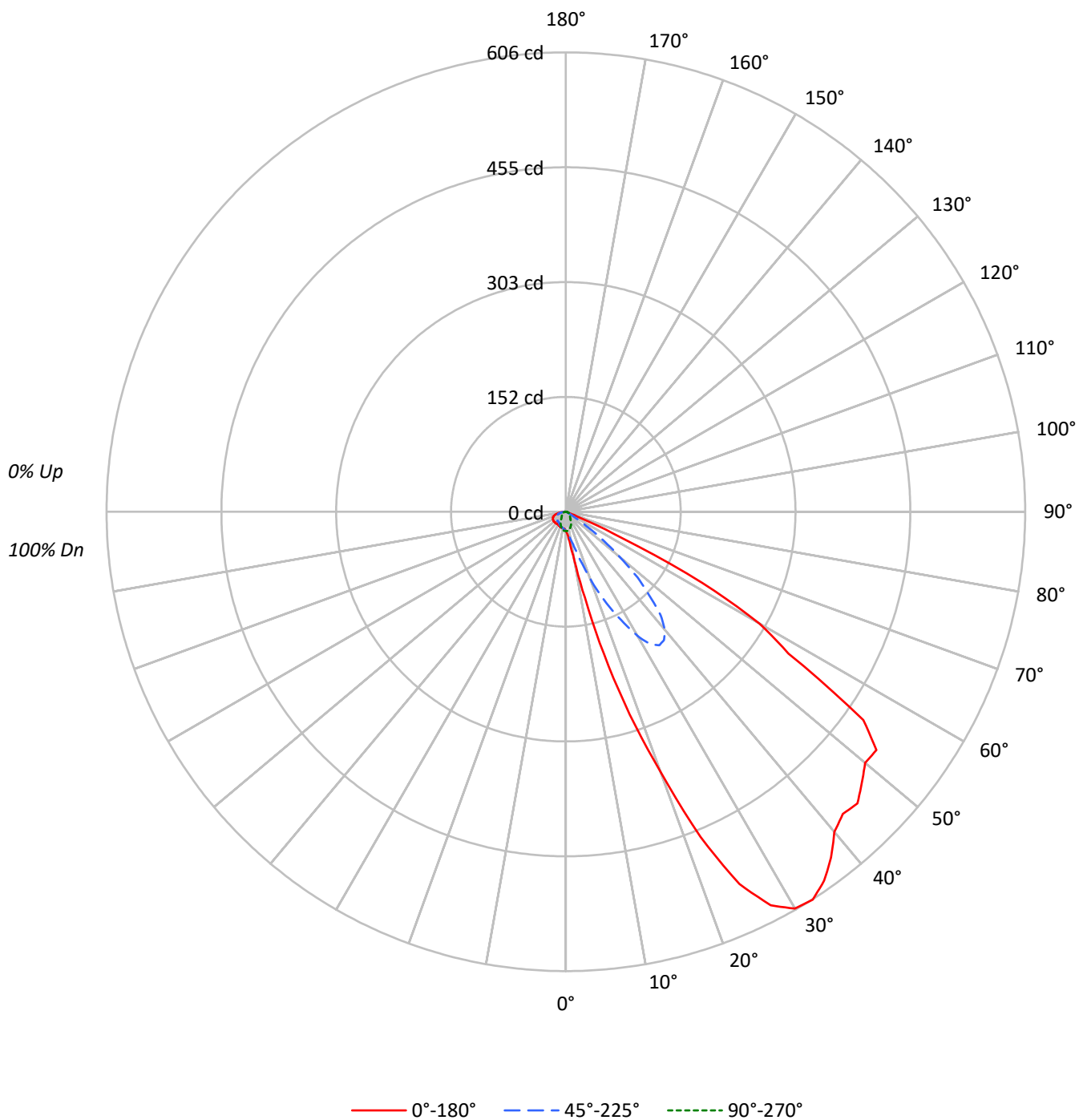
Lumens per Lamp: N/A
Luminaire Lumens: 390.0 lumens
Efficiency: N/A
Efficacy: 54.2 lumens/watt
Spacing Criteria (0/90/45): 3.75 / 0.9 / 1.95
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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
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°	4340	4340	4340	4340	4340
5°	5532	5065	4357	4045	3924
10°	11262	6453	4215	3865	3865
15°	34590	9896	3940	3744	3869
20°	66877	17301	3537	3666	3849
25°	102937	26908	3078	3534	3858
30°	120194	37625	2526	3500	3977
35°	124907	45203	2102	3469	4121
40°	123944	45639	1933	3642	4496
45°	132521	37776	1851	3946	4871
50°	138118	24918	1849	4260	5439
55°	143825	10869	1862	4654	6005
60°	101611	2480	1894	5098	6751
65°	33131	856	1834	5461	7580
70°	1057	856	1913	5891	8661
75°	932	932	1597	6188	9649
80°	694	992	1686	6149	10215
85°	593	1383	1976	6126	10275

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 146121 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.7	0.7
10°-20°	16.6	4.2
20°-30°	55.5	14.2
30°-40°	91.2	23.4
40°-50°	101.7	26.1
50°-60°	85.6	21.9
60°-70°	29.0	7.4
70°-80°	5.7	1.5
80°-90°	2.1	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°	74.7	19.2
0°-40°	165.9	42.5
0°-60°	353.2	90.6
0°-90°	390.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	390.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	25	25	25	25	25	
5°	32	29	25	23	23	4
15°	194	56	22	21	22	62
25°	542	142	16	19	20	243
35°	594	215	10	16	20	369
45°	544	155	8	16	20	416
55°	479	36	6	16	20	390
65°	81	2	4	13	19	110
75°	1	1	2	9	14	1
85°	0	1	1	3	5	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°	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2
2.5°	27.6	27.6	27.6	27.6	27.6	27.6	27.2	26.2	25.5	24.5	24.1
5°	32.0	32.0	32.0	31.7	31.7	31.0	29.3	26.9	25.2	23.8	23.4
7.5°	41.4	41.0	40.3	40.0	38.9	38.6	32.4	27.6	24.8	23.1	22.7
10°	64.4	63.7	62.7	58.9	55.5	53.1	36.9	27.9	24.1	22.4	22.1
12.5°	116.1	114.7	109.6	101.7	92.0	87.2	44.1	28.3	23.1	21.7	21.7
15°	194.0	192.3	182.6	171.6	154.0	144.4	55.5	27.9	22.1	20.7	21.0
17.5°	280.2	275.3	265.3	250.9	227.1	215.7	72.4	27.2	20.7	20.0	20.7
20°	364.9	363.5	347.0	327.4	298.1	282.9	94.4	26.2	19.3	19.0	20.0
22.5°	464.2	458.3	440.7	419.7	379.4	359.4	118.2	24.8	17.9	17.9	19.3
25°	541.7	534.8	521.0	496.6	458.3	436.9	141.6	23.1	16.2	16.9	18.6
27.5°	585.1	577.2	566.8	545.8	516.2	497.2	165.1	21.0	14.5	15.9	17.9
30°	604.4	602.3	594.8	579.3	552.0	535.1	189.2	18.6	12.7	14.8	17.6
32.5°	606.5	607.5	604.4	594.4	573.7	559.3	207.1	16.5	11.4	14.1	16.9
35°	594.1	597.9	599.9	595.8	582.4	570.6	215.0	14.1	10.0	13.4	16.5
37.5°	574.8	581.7	588.6	589.6	581.3	573.7	213.0	12.1	9.3	13.1	16.5
40°	551.3	557.5	571.7	580.6	577.9	572.4	203.0	10.0	8.6	12.4	16.2
42.5°	540.7	542.0	557.2	572.4	571.7	567.2	185.4	7.9	7.9	12.4	16.2
45°	544.1	537.9	547.9	565.5	564.4	558.6	155.1	6.2	7.6	12.1	16.2
47.5°	529.6	521.0	537.9	558.6	554.8	546.2	128.2	4.5	7.2	11.7	15.9
50°	515.5	514.1	527.2	537.6	532.4	527.6	93.0	3.4	6.9	11.4	15.9
52.5°	516.5	514.1	515.5	515.2	504.8	499.7	63.7	2.8	6.5	11.0	15.9
55°	479.0	471.4	464.2	466.2	466.9	463.5	36.2	2.4	6.2	11.0	15.5
57.5°	348.0	346.0	353.9	376.3	393.9	395.9	17.6	2.4	5.9	10.7	15.2
60°	295.0	293.6	293.9	300.5	309.8	303.9	7.2	2.4	5.5	10.3	14.8
62.5°	203.3	216.7	222.3	237.4	231.2	222.9	2.8	2.8	5.2	9.6	14.5
65°	81.3	81.0	88.6	95.8	93.7	87.5	2.1	2.4	4.5	9.0	13.4
67.5°	19.0	17.2	14.8	12.7	10.7	8.6	2.1	2.4	4.1	8.3	12.7
70°	2.1	2.1	2.1	2.1	2.1	1.7	1.7	2.4	3.8	7.6	11.7
72.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	2.1	3.1	6.5	10.7
75°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.7	2.4	5.5	9.3
77.5°	1.0	1.0	1.0	1.4	1.0	1.4	1.4	1.7	2.1	4.5	7.9
80°	0.7	0.7	1.0	1.0	1.0	1.0	1.0	1.4	1.7	3.8	6.2
82.5°	0.7	0.7	0.7	0.7	0.7	0.7	1.0	1.0	1.4	2.8	4.5
85°	0.3	0.3	0.3	0.3	0.3	0.7	0.7	1.0	1.0	2.1	3.1
87.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.7	0.7	1.0	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°	25.2	25.2
2.5°	23.8	23.8
5°	23.1	22.7
7.5°	22.4	22.4
10°	22.1	22.1
12.5°	21.7	22.1
15°	21.7	21.7
17.5°	21.0	21.4
20°	20.7	21.0
22.5°	20.3	20.7
25°	20.0	20.3
27.5°	19.6	20.0
30°	19.3	20.0
32.5°	19.0	19.6
35°	19.0	19.6
37.5°	19.0	20.0
40°	19.0	20.0
42.5°	19.0	20.0
45°	19.0	20.0
47.5°	19.0	20.0
50°	19.0	20.3
52.5°	19.0	20.3
55°	19.0	20.0
57.5°	18.6	20.0
60°	18.6	19.6
62.5°	18.3	19.3
65°	17.6	18.6
67.5°	16.9	18.3
70°	15.9	17.2
72.5°	14.8	15.9
75°	13.4	14.5
77.5°	11.7	12.4
80°	9.3	10.3
82.5°	7.2	7.9
85°	4.8	5.2
87.5°	2.1	2.4
90°	0.0	0.0

(END OF REPORT)