

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: P1316031

Luminaire Tested: P3SQAS05R709827DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1316031
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-83)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS05R709827DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R70 optic, 2700K CCT AND, 98CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

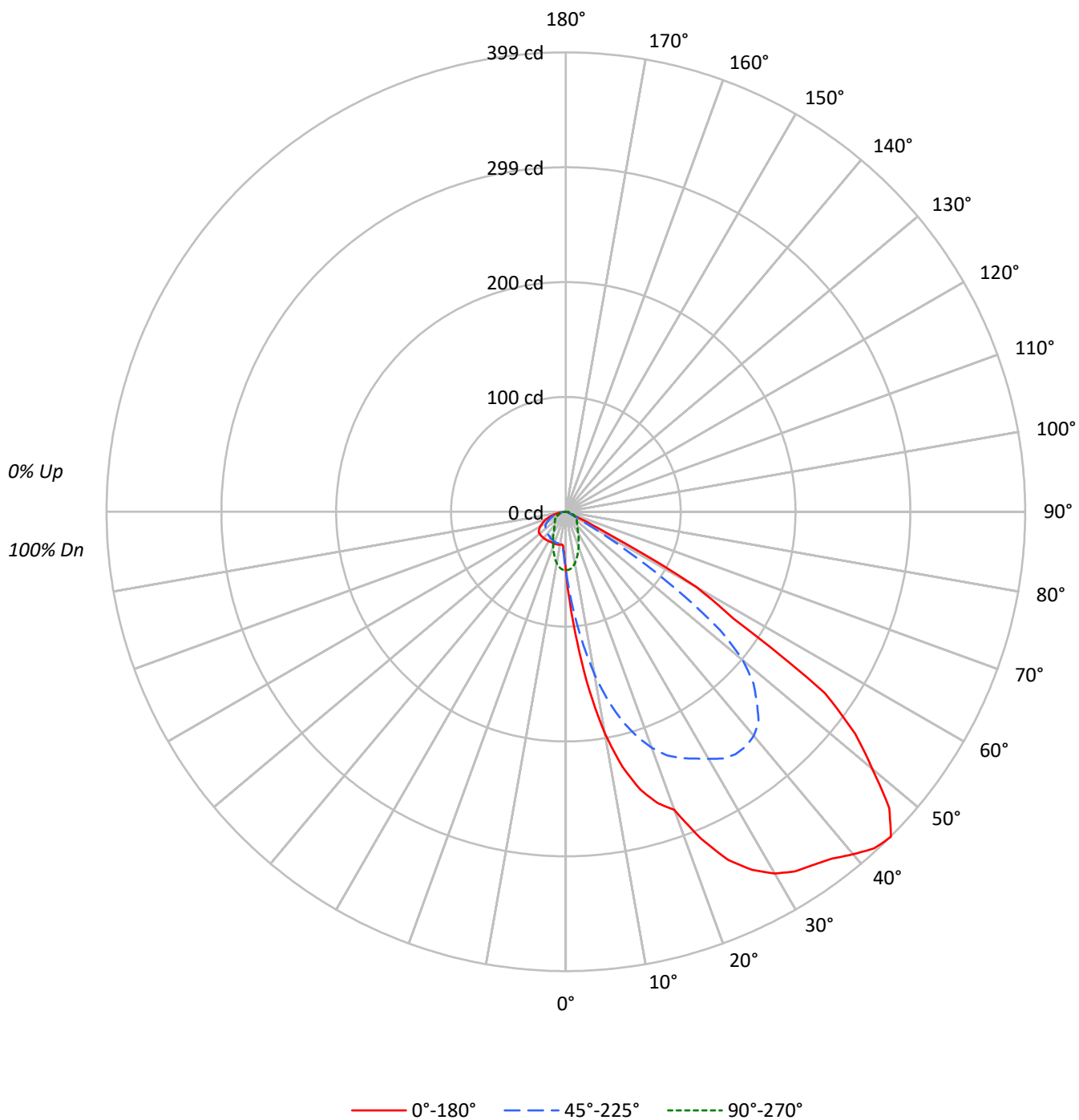
Lumens per Lamp: N/A
Luminaire Lumens: 345.0 lumens
Efficiency: N/A
Efficacy: 47.9 lumens/watt
Spacing Criteria (0/90/45): 2.92 / 0.77 / 2.03
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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
RCR																			
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	
1	110	106	103	99	108	104	101	98	100	97	95	96	94	92	93	91	89	87	
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	75	
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	74	69	66	64	
4	85	74	66	59	83	72	65	59	70	63	58	68	62	57	66	61	57	54	
5	78	66	57	51	76	65	57	51	63	55	50	61	54	49	59	53	49	47	
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	41	
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	35	
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33	31	
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28	
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	8663	8663	8663	8663	8663
5°	19691	15767	8575	5411	5065
10°	34136	25043	7940	4932	5054
15°	44557	33449	6936	5028	5224
20°	50474	39991	5938	5113	5425
25°	63374	44865	4979	5169	5568
30°	72148	49279	4236	5270	5886
35°	78737	54054	3700	5361	6223
40°	87298	57104	3395	5576	6722
45°	97253	57163	3361	5870	7282
50°	93133	53774	3322	6189	7931
55°	82482	34830	3423	6516	8587
60°	45157	7474	3444	6648	8887
65°	3219	1834	3382	6602	8965
70°	1561	1712	3122	6244	8661
75°	1397	1863	2994	5922	7985
80°	1389	1686	2777	5455	7538
85°	1383	1976	2766	4742	6719

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 97253 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.6	1.9
10°-20°	28.0	8.1
20°-30°	53.8	15.6
30°-40°	76.1	22.1
40°-50°	86.0	24.9
50°-60°	68.1	19.8
60°-70°	18.4	5.3
70°-80°	6.1	1.8
80°-90°	1.9	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°	88.4	25.6
0°-40°	164.5	47.7
0°-60°	318.7	92.4
0°-90°	345.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	345.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	50	50	50	50	50	
5°	114	91	50	31	29	13
15°	250	188	39	28	29	70
25°	334	236	26	27	29	153
35°	374	257	18	26	30	236
45°	399	235	14	24	30	299
55°	275	116	11	22	29	223
65°	8	4	8	16	22	29
75°	2	3	4	9	12	2
85°	1	1	1	2	3	1
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3
2.5°	78.1	78.1	77.8	76.4	75.7	74.0	72.6	68.8	59.5	50.6	43.4
5°	113.9	115.7	113.2	112.9	110.8	107.7	105.7	91.2	68.8	49.6	37.2
7.5°	156.3	157.0	156.3	152.8	149.7	144.6	139.7	117.0	78.1	47.8	32.7
10°	195.2	194.1	192.1	189.7	185.2	179.7	171.4	143.2	87.1	45.4	29.9
12.5°	226.8	226.5	224.1	221.7	216.2	208.9	200.7	166.9	94.7	42.3	28.6
15°	249.9	249.9	247.5	244.7	239.6	233.7	224.4	187.6	100.9	38.9	27.2
17.5°	265.4	264.7	263.0	260.9	256.8	250.9	243.7	204.1	105.0	35.5	26.8
20°	275.4	275.0	273.6	270.5	267.1	262.6	256.1	218.2	106.7	32.4	26.5
22.5°	307.4	304.6	299.5	292.9	284.7	274.0	265.0	228.9	106.0	28.9	25.8
25°	333.5	332.5	327.0	319.1	308.1	294.3	279.5	236.1	102.6	26.2	25.1
27.5°	350.7	349.0	343.9	335.3	323.6	310.1	296.4	241.6	97.8	23.8	24.1
30°	362.8	361.8	356.6	347.0	334.9	320.1	306.0	247.8	91.2	21.3	23.1
32.5°	370.4	369.3	364.2	355.6	343.9	328.4	312.2	254.0	83.3	19.3	22.0
35°	374.5	373.5	367.6	360.0	349.0	333.9	316.7	257.1	73.7	17.6	21.0
37.5°	379.7	377.6	369.7	360.4	349.4	335.3	318.0	256.8	64.0	16.2	20.3
40°	388.3	382.8	371.4	359.0	347.6	333.5	317.0	254.0	53.4	15.1	19.6
42.5°	396.5	388.6	371.7	356.9	344.2	330.4	313.2	247.8	41.6	14.5	19.3
45°	399.3	387.6	366.9	352.1	340.1	326.0	308.1	234.7	28.2	13.8	18.6
47.5°	381.0	372.4	355.2	344.2	332.8	319.1	300.5	221.0	16.2	13.1	17.9
50°	347.6	342.1	332.5	325.6	319.4	309.8	291.5	200.7	9.6	12.4	17.2
52.5°	316.7	314.9	308.1	302.6	299.1	294.6	278.1	169.3	7.9	12.0	16.5
55°	274.7	269.2	267.4	265.4	272.6	272.3	249.9	116.0	7.6	11.4	15.8
57.5°	172.4	174.9	183.8	200.3	219.9	231.3	230.6	62.0	7.2	10.7	14.8
60°	131.1	130.8	133.6	140.4	154.9	171.1	186.2	21.7	6.9	10.0	14.1
62.5°	39.2	40.3	48.5	71.3	85.4	105.3	96.0	5.2	6.5	8.9	12.7
65°	7.9	8.3	8.3	9.3	11.4	17.2	21.0	4.5	6.2	8.3	11.7
67.5°	3.4	3.4	3.4	3.8	3.8	4.5	3.8	4.1	5.5	7.2	10.3
70°	3.1	3.1	3.1	3.1	3.1	3.1	3.4	3.4	4.8	6.2	8.9
72.5°	2.4	2.4	2.4	2.8	2.8	2.8	2.8	3.1	4.1	5.2	7.6
75°	2.1	2.1	2.1	2.1	2.4	2.4	2.4	2.8	3.4	4.5	6.2
77.5°	1.7	1.7	1.7	1.7	1.7	2.1	2.1	2.1	2.8	3.4	5.2
80°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.7	2.1	2.8	3.8
82.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.4	1.7	2.1	2.8
85°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.0	1.0	1.4	1.7
87.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.7	0.7	0.7	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):

	135°	157.5°	180°
0°	50.3	50.3	50.3
2.5°	38.2	36.1	35.1
5°	31.3	29.6	29.3
7.5°	28.9	28.6	28.6
10°	28.2	28.6	28.9
12.5°	28.2	28.9	29.3
15°	28.2	28.9	29.3
17.5°	28.2	28.9	29.3
20°	27.9	28.9	29.6
22.5°	27.5	28.9	29.3
25°	27.2	28.9	29.3
27.5°	26.8	28.6	29.3
30°	26.5	28.6	29.6
32.5°	25.8	28.6	29.6
35°	25.5	28.6	29.6
37.5°	25.1	28.6	29.9
40°	24.8	28.6	29.9
42.5°	24.4	28.6	29.9
45°	24.1	28.2	29.9
47.5°	23.4	28.2	29.9
50°	23.1	27.9	29.6
52.5°	22.4	27.5	29.6
55°	21.7	26.8	28.6
57.5°	20.7	25.8	27.2
60°	19.3	24.4	25.8
62.5°	17.6	22.7	23.8
65°	16.2	20.7	22.0
67.5°	14.1	18.2	19.6
70°	12.4	15.8	17.2
72.5°	10.7	13.4	14.8
75°	8.9	11.0	12.0
77.5°	6.9	8.9	9.6
80°	5.5	6.9	7.6
82.5°	3.8	4.8	5.2
85°	2.4	3.1	3.4
87.5°	1.0	1.4	1.4
90°	0.0	0.0	0.0

(END OF REPORT)