

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: P1317923

Luminaire Tested: P3SQAS09R659835DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1317923
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: P3SQAS09R659835DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R65 optic, 3500K CCT AND, 98CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

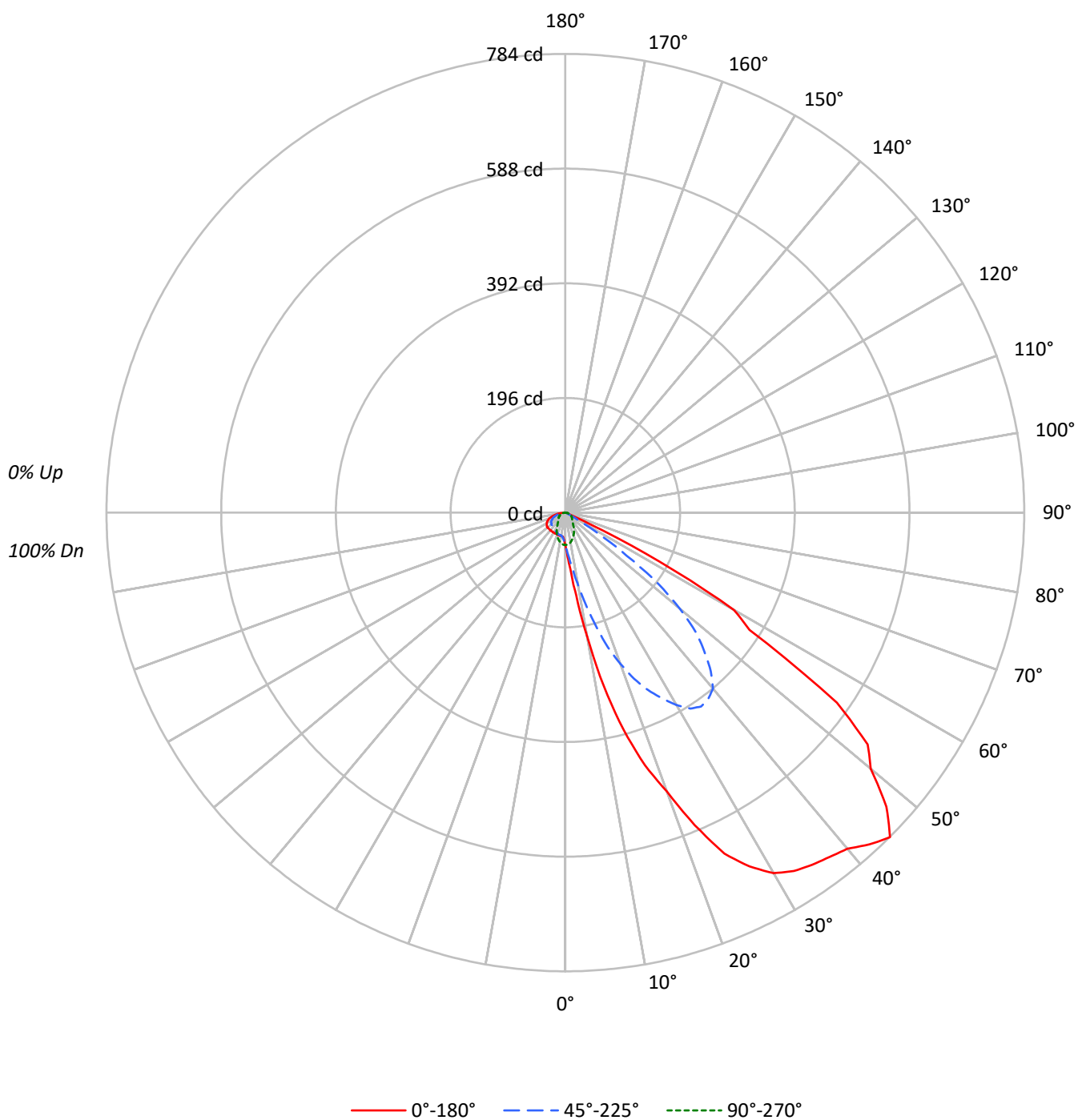
Lumens per Lamp: N/A
Luminaire Lumens: 569.0 lumens
Efficiency: N/A
Efficacy: 51.7 lumens/watt
Spacing Criteria (0/90/45): 3.28 / 0.89 / 2.04
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11
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°	9524	9524	9524	9524	9524
5°	16666	13606	9370	7589	7296
10°	37721	21947	8971	6978	7083
15°	68556	35303	8344	7025	7221
20°	92957	50401	7533	7001	7313
25°	122187	63640	6613	6822	7487
30°	141473	75450	5668	6801	7835
35°	154488	85044	4794	6959	8284
40°	168548	88242	4227	7307	8858
45°	191073	81836	4019	7770	9596
50°	182515	68322	3965	8252	10556
55°	170098	38373	4114	8918	11650
60°	114563	8267	4133	9438	12572
65°	17686	2078	3953	9780	13733
70°	2014	2014	3726	10071	14653
75°	1930	1930	3394	9848	14839
80°	1686	2281	3372	9025	14679
85°	1186	2174	3359	9090	13437

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 191073 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.7	1.2
10°-20°	36.2	6.4
20°-30°	85.0	14.9
30°-40°	128.4	22.6
40°-50°	147.6	25.9
50°-60°	117.2	20.6
60°-70°	35.1	6.2
70°-80°	9.5	1.7
80°-90°	3.2	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°	127.9	22.5
0°-40°	256.3	45.0
0°-60°	521.2	91.6
0°-90°	569.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	569.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	55	55	55	55	55	
5°	96	79	54	44	42	13
15°	384	198	47	39	40	111
25°	643	335	35	36	39	293
35°	735	404	23	33	39	461
45°	784	336	16	32	39	583
55°	566	128	14	30	39	467
65°	43	5	10	24	34	97
75°	3	3	5	15	22	3
85°	1	1	2	5	7	1
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°	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3
2.5°	70.2	70.7	70.2	70.2	69.6	69.0	65.0	60.5	55.3	51.3	48.5
5°	96.4	97.0	95.3	95.3	94.1	92.4	78.7	65.6	54.2	47.9	43.9
7.5°	142.6	144.9	142.1	138.6	132.4	131.2	98.1	70.7	53.1	44.5	41.1
10°	215.7	213.9	211.1	204.2	193.4	188.3	125.5	75.9	51.3	42.2	39.9
12.5°	304.1	299.5	296.1	283.5	268.7	260.2	159.7	80.4	49.1	39.9	39.4
15°	384.5	381.1	373.1	361.1	342.9	336.0	198.0	83.3	46.8	38.2	39.4
17.5°	452.4	449.0	444.4	432.5	413.6	403.4	240.8	85.0	43.9	37.1	38.8
20°	507.2	504.9	498.6	488.9	470.1	460.4	275.0	85.0	41.1	35.9	38.2
22.5°	577.9	572.8	564.8	550.5	527.2	512.3	307.5	83.3	38.2	34.8	37.1
25°	643.0	639.5	629.3	612.2	587.1	572.2	334.9	79.9	34.8	33.1	35.9
27.5°	681.8	679.5	669.8	652.1	624.1	612.7	357.7	74.7	31.4	31.4	35.4
30°	711.4	706.9	697.2	680.1	651.5	637.8	379.4	68.5	28.5	29.7	34.2
32.5°	726.3	724.6	716.0	701.2	673.2	657.8	397.1	60.5	25.1	28.5	33.7
35°	734.8	733.1	726.3	712.0	685.8	670.9	404.5	53.1	22.8	27.4	33.1
37.5°	741.7	740.0	731.4	717.1	690.9	675.5	401.1	45.1	20.5	26.2	32.5
40°	749.7	743.4	730.3	716.0	692.0	677.2	392.5	37.7	18.8	25.7	32.5
42.5°	769.1	747.4	726.8	713.7	690.9	673.8	368.0	29.7	17.1	24.5	31.9
45°	784.5	746.2	720.0	709.7	686.3	666.9	336.0	21.7	16.5	24.0	31.9
47.5°	744.0	720.6	708.6	702.9	677.8	656.7	302.9	14.8	16.0	23.4	31.4
50°	681.2	678.3	673.8	674.4	651.5	634.4	255.0	10.3	14.8	22.8	30.8
52.5°	651.0	647.5	639.5	633.8	611.0	596.2	202.0	8.0	14.3	22.3	30.2
55°	566.5	568.8	560.2	563.7	556.8	549.4	127.8	7.4	13.7	21.1	29.7
57.5°	373.1	384.5	404.5	428.5	450.1	465.0	69.0	7.4	12.6	20.5	28.5
60°	332.6	329.8	329.2	333.8	343.5	351.4	24.0	6.8	12.0	18.8	27.4
62.5°	182.0	180.9	198.0	227.1	244.2	245.9	6.8	6.8	10.8	17.7	25.7
65°	43.4	45.1	50.2	62.8	74.2	81.6	5.1	6.3	9.7	16.5	24.0
67.5°	6.8	7.4	7.4	9.1	10.3	10.3	4.6	5.7	8.6	14.8	22.3
70°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	5.1	7.4	13.1	20.0
72.5°	3.4	3.4	3.4	3.4	3.4	3.4	4.0	4.6	6.3	11.4	17.1
75°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	4.0	5.1	9.1	14.8
77.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.9	3.4	4.6	7.4	12.0
80°	1.7	1.7	1.7	1.7	1.7	1.7	2.3	2.9	3.4	5.7	9.1
82.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.7	2.3	2.9	4.6	6.8
85°	0.6	0.6	0.6	0.6	1.1	1.1	1.1	1.7	1.7	2.9	4.6
87.5°	0.6	0.6	0.6	0.6	0.6	0.6	1.1	1.1	1.1	1.7	2.3
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°	55.3	55.3
2.5°	46.8	46.2
5°	42.2	42.2
7.5°	40.5	40.5
10°	39.9	40.5
12.5°	39.9	40.5
15°	39.9	40.5
17.5°	39.9	40.5
20°	39.4	39.9
22.5°	38.8	39.4
25°	38.2	39.4
27.5°	37.7	39.4
30°	37.7	39.4
32.5°	37.7	39.4
35°	37.1	39.4
37.5°	37.1	39.4
40°	37.1	39.4
42.5°	37.1	39.4
45°	37.1	39.4
47.5°	37.1	39.4
50°	37.1	39.4
52.5°	36.5	39.4
55°	36.5	38.8
57.5°	35.4	37.7
60°	34.2	36.5
62.5°	33.1	35.4
65°	31.4	33.7
67.5°	29.7	31.4
70°	26.8	29.1
72.5°	24.0	25.7
75°	20.5	22.3
77.5°	17.1	18.8
80°	13.7	14.8
82.5°	9.7	10.8
85°	6.3	6.8
87.5°	2.9	2.9
90°	0.0	0.0

(END OF REPORT)