

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: P1312521

Luminaire Tested: P3SQAS13R709727DE010 E3SQCA451MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1312521
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: P3SQAS13R709727DE010 E3SQCA451MW
Description: 3in Adjustable LED luminaire with, R70 optic, 2700K CCT AND, 97CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

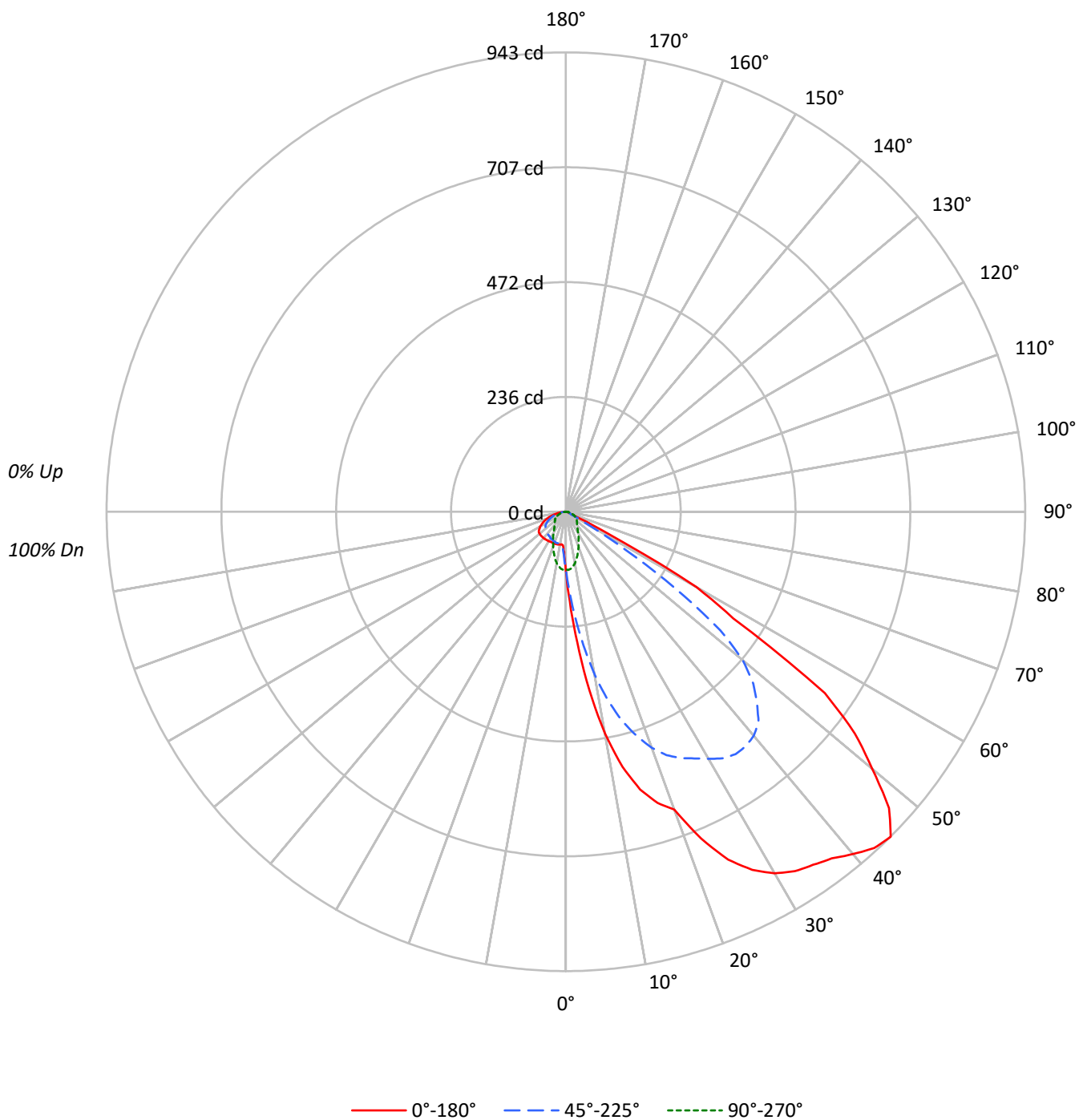
Lumens per Lamp: N/A
Luminaire Lumens: 815.0 lumens
Efficiency: N/A
Efficacy: 55.8 lumens/watt
Spacing Criteria (0/90/45): 2.92 / 0.77 / 2.03
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.6
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	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	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°	20443	20443	20443	20443	20443
5°	46522	37256	20244	12793	11946
10°	80619	59162	18765	11664	11944
15°	105249	79022	16386	11892	12320
20°	119221	94479	14002	12078	12811
25°	149722	105997	11744	12200	13131
30°	170428	116436	10023	12449	13901
35°	186004	127703	8725	12657	14696
40°	206206	134915	8049	13152	15895
45°	229725	135078	7916	13859	17220
50°	220052	127026	7850	14602	18728
55°	194839	82272	8047	15373	20268
60°	106709	17636	8129	15672	21011
65°	7621	4320	7947	15567	21191
70°	3676	4079	7352	14754	20494
75°	3261	4325	7053	14040	18964
80°	3273	4066	6447	12893	17753
85°	3162	4742	6521	11263	16006

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 229725 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	15.5	1.9
10°-20°	66.2	8.1
20°-30°	127.1	15.6
30°-40°	179.7	22.0
40°-50°	203.3	24.9
50°-60°	161.0	19.8
60°-70°	43.4	5.3
70°-80°	14.4	1.8
80°-90°	4.4	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°	208.8	25.6
0°-40°	388.5	47.7
0°-60°	752.8	92.4
0°-90°	815.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	815.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	119	119	119	119	119	
5°	269	216	117	74	69	32
15°	590	443	92	67	69	166
25°	788	558	62	64	69	361
35°	885	607	42	60	70	557
45°	943	555	32	57	71	706
55°	649	274	27	51	68	527
65°	19	11	20	38	52	67
75°	5	6	11	21	28	5
85°	2	2	3	6	8	2
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°	118.7	118.7	118.7	118.7	118.7	118.7	118.7	118.7	118.7	118.7	118.7
2.5°	184.6	184.6	183.8	180.5	178.9	174.8	171.6	162.6	140.7	119.5	102.5
5°	269.1	273.2	267.5	266.7	261.8	254.5	249.6	215.5	162.6	117.1	87.8
7.5°	369.2	370.8	369.2	361.0	353.7	341.5	330.1	276.5	184.6	113.0	77.2
10°	461.0	458.6	453.7	448.0	437.5	424.5	404.9	338.3	205.7	107.3	70.7
12.5°	535.9	535.0	529.3	523.7	510.6	493.6	474.1	394.4	223.6	100.0	67.5
15°	590.3	590.3	584.6	578.1	565.9	552.1	530.2	443.2	238.2	91.9	64.2
17.5°	626.9	625.3	621.2	616.4	606.6	592.8	575.7	482.2	248.0	83.8	63.4
20°	650.5	649.7	646.4	639.1	631.0	620.4	605.0	515.5	252.1	76.4	62.6
22.5°	726.1	719.6	707.4	692.0	672.5	647.2	626.1	540.7	250.4	68.3	61.0
25°	787.9	785.5	772.5	753.8	727.7	695.2	660.3	557.8	242.3	61.8	59.4
27.5°	828.6	824.5	812.3	792.0	764.3	732.6	700.1	570.8	230.9	56.1	56.9
30°	857.0	854.6	842.4	819.6	791.2	756.2	722.9	585.5	215.5	50.4	54.5
32.5°	874.9	872.5	860.3	840.0	812.3	775.7	737.5	600.1	196.8	45.5	52.0
35°	884.7	882.2	868.4	850.5	824.5	788.7	748.1	607.4	174.0	41.5	49.6
37.5°	896.9	892.0	873.3	851.3	825.3	792.0	751.3	606.6	151.2	38.2	48.0
40°	917.2	904.2	877.4	848.1	821.3	787.9	748.9	600.1	126.0	35.8	46.3
42.5°	936.7	918.0	878.2	843.2	813.1	780.6	739.9	585.5	98.4	34.2	45.5
45°	943.2	915.6	866.8	831.8	803.4	770.0	727.7	554.6	66.7	32.5	43.9
47.5°	900.1	879.8	839.1	813.1	786.3	753.8	709.9	522.0	38.2	30.9	42.3
50°	821.3	808.2	785.5	769.2	754.6	731.8	688.7	474.1	22.8	29.3	40.7
52.5°	748.1	744.0	727.7	714.7	706.6	696.0	657.0	400.1	18.7	28.5	39.0
55°	648.9	635.9	631.8	626.9	644.0	643.2	590.3	274.0	17.9	26.8	37.4
57.5°	407.4	413.1	434.2	473.2	519.6	546.4	544.8	146.4	17.1	25.2	35.0
60°	309.8	309.0	315.5	331.8	365.9	404.1	439.9	51.2	16.3	23.6	33.3
62.5°	92.7	95.1	114.7	168.3	201.7	248.8	226.9	12.2	15.4	21.1	30.1
65°	18.7	19.5	19.5	22.0	26.8	40.7	49.6	10.6	14.6	19.5	27.6
67.5°	8.1	8.1	8.1	8.9	8.9	10.6	8.9	9.8	13.0	17.1	24.4
70°	7.3	7.3	7.3	7.3	7.3	7.3	8.1	8.1	11.4	14.6	21.1
72.5°	5.7	5.7	5.7	6.5	6.5	6.5	6.5	7.3	9.8	12.2	17.9
75°	4.9	4.9	4.9	4.9	5.7	5.7	5.7	6.5	8.1	10.6	14.6
77.5°	4.1	4.1	4.1	4.1	4.1	4.9	4.9	4.9	6.5	8.1	12.2
80°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	4.1	4.9	6.5	8.9
82.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.3	4.1	4.9	6.5
85°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	2.4	2.4	3.3	4.1
87.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.6	1.6	1.6	2.4
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):

	135°	157.5°	180°
0°	118.7	118.7	118.7
2.5°	90.3	85.4	82.9
5°	74.0	69.9	69.1
7.5°	68.3	67.5	67.5
10°	66.7	67.5	68.3
12.5°	66.7	68.3	69.1
15°	66.7	68.3	69.1
17.5°	66.7	68.3	69.1
20°	65.9	68.3	69.9
22.5°	65.1	68.3	69.1
25°	64.2	68.3	69.1
27.5°	63.4	67.5	69.1
30°	62.6	67.5	69.9
32.5°	61.0	67.5	69.9
35°	60.2	67.5	69.9
37.5°	59.4	67.5	70.7
40°	58.5	67.5	70.7
42.5°	57.7	67.5	70.7
45°	56.9	66.7	70.7
47.5°	55.3	66.7	70.7
50°	54.5	65.9	69.9
52.5°	52.9	65.1	69.9
55°	51.2	63.4	67.5
57.5°	48.8	61.0	64.2
60°	45.5	57.7	61.0
62.5°	41.5	53.7	56.1
65°	38.2	48.8	52.0
67.5°	33.3	43.1	46.3
70°	29.3	37.4	40.7
72.5°	25.2	31.7	35.0
75°	21.1	26.0	28.5
77.5°	16.3	21.1	22.8
80°	13.0	16.3	17.9
82.5°	8.9	11.4	12.2
85°	5.7	7.3	8.1
87.5°	2.4	3.3	3.3
90°	0.0	0.0	0.0

(END OF REPORT)