

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: P1313493

Luminaire Tested: P3SQAS13R709730DE010 E3SQCA451MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1313493
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: P3SQAS13R709730DE010 E3SQCA451MW
Description: 3in Adjustable LED luminaire with, R70 optic, 3000K CCT AND, 97CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

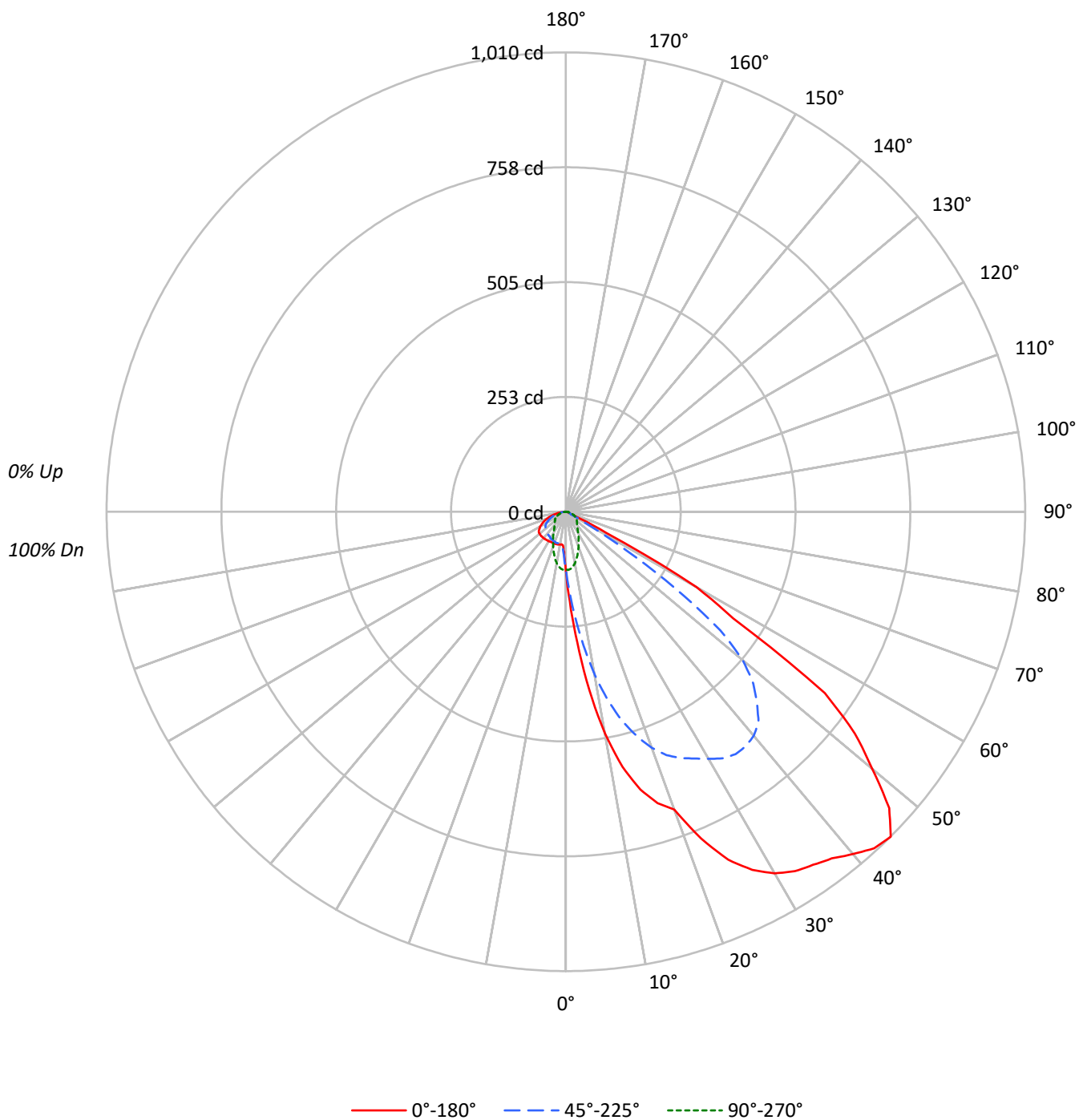
Lumens per Lamp: N/A
Luminaire Lumens: 873.0 lumens
Efficiency: N/A
Efficacy: 59.8 lumens/watt
Spacing Criteria (0/90/45): 2.92 / 0.77 / 2.03
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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			0
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°	21907	21907	21907	21907	21907
5°	49841	39901	21679	13709	12793
10°	86373	63359	20111	12486	12801
15°	112738	84638	17545	12730	13194
20°	127706	101205	15010	12939	13727
25°	160383	113541	12580	13074	14062
30°	182559	124709	10739	13344	14895
35°	199228	136785	9335	13561	15747
40°	220886	144515	8611	14096	17041
45°	246093	144674	8476	14857	18462
50°	235699	136055	8413	15647	20068
55°	208711	88127	8617	16484	21709
60°	114287	18910	8714	16809	22492
65°	8150	4605	8517	16667	22699
70°	3928	4381	7906	15811	21904
75°	3460	4658	7519	15038	20295
80°	3471	4364	6943	13786	19042
85°	3359	5138	6916	12054	17191

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 246093 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16.6	1.9
10°-20°	70.9	8.1
20°-30°	136.1	15.6
30°-40°	192.5	22.0
40°-50°	217.7	24.9
50°-60°	172.5	19.8
60°-70°	46.5	5.3
70°-80°	15.4	1.8
80°-90°	4.7	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°	223.7	25.6
0°-40°	416.1	47.7
0°-60°	806.3	92.4
0°-90°	873.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	873.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	127	127	127	127	127	
5°	288	231	125	79	74	34
15°	632	475	98	71	74	178
25°	844	598	66	69	74	387
35°	948	651	44	64	75	597
45°	1010	594	35	61	76	756
55°	695	294	29	55	72	564
65°	20	11	21	41	56	72
75°	5	7	11	23	30	6
85°	2	3	4	6	9	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°	127.2	127.2	127.2	127.2	127.2	127.2	127.2	127.2	127.2	127.2	127.2
2.5°	197.7	197.7	196.8	193.4	191.6	187.3	183.8	174.2	150.7	128.0	109.7
5°	288.3	292.7	286.6	285.7	280.5	272.6	267.4	230.8	174.2	125.4	94.1
7.5°	395.4	397.2	395.4	386.7	378.9	365.8	353.6	296.1	197.7	121.1	82.7
10°	493.9	491.2	486.0	479.9	468.6	454.7	433.8	362.3	220.4	115.0	75.8
12.5°	574.0	573.1	567.0	560.9	547.0	528.7	507.8	422.4	239.5	107.1	72.3
15°	632.3	632.3	626.2	619.3	606.2	591.4	567.9	474.7	255.2	98.4	68.8
17.5°	671.5	669.8	665.4	660.2	649.8	635.0	616.7	516.5	265.7	89.7	67.9
20°	696.8	695.9	692.4	684.6	675.9	664.6	648.0	552.2	270.0	81.9	67.1
22.5°	777.8	770.8	757.8	741.2	720.3	693.3	670.7	579.2	268.3	73.2	65.3
25°	844.0	841.4	827.4	807.4	779.5	744.7	707.2	597.5	259.6	66.2	63.6
27.5°	887.5	883.2	870.1	848.3	818.7	784.8	749.9	611.4	247.4	60.1	61.0
30°	918.0	915.4	902.3	878.0	847.5	810.0	774.3	627.1	230.8	54.0	58.4
32.5°	937.2	934.6	921.5	899.7	870.1	830.9	790.0	642.8	210.8	48.8	55.7
35°	947.6	945.0	930.2	911.1	883.2	844.9	801.3	650.6	186.4	44.4	53.1
37.5°	960.7	955.5	935.4	911.9	884.1	848.3	804.8	649.8	162.0	40.9	51.4
40°	982.5	968.5	939.8	908.4	879.7	844.0	802.2	642.8	135.0	38.3	49.6
42.5°	1003.4	983.4	940.7	903.2	871.0	836.2	792.6	627.1	105.4	36.6	48.8
45°	1010.4	980.7	928.5	891.0	860.5	824.8	779.5	594.0	71.4	34.8	47.0
47.5°	964.2	942.4	898.9	871.0	842.3	807.4	760.4	559.2	40.9	33.1	45.3
50°	879.7	865.8	841.4	824.0	808.3	783.9	737.7	507.8	24.4	31.4	43.5
52.5°	801.3	797.0	779.5	765.6	756.9	745.6	703.8	428.5	20.0	30.5	41.8
55°	695.1	681.1	676.8	671.5	689.8	689.0	632.3	293.5	19.2	28.7	40.1
57.5°	436.4	442.5	465.1	506.9	556.6	585.3	583.6	156.8	18.3	27.0	37.5
60°	331.8	331.0	337.9	355.4	391.9	432.9	471.2	54.9	17.4	25.3	35.7
62.5°	99.3	101.9	122.8	180.3	216.0	266.5	243.0	13.1	16.5	22.6	32.2
65°	20.0	20.9	20.9	23.5	28.7	43.5	53.1	11.3	15.7	20.9	29.6
67.5°	8.7	8.7	8.7	9.6	9.6	11.3	9.6	10.5	13.9	18.3	26.1
70°	7.8	7.8	7.8	7.8	7.8	7.8	8.7	8.7	12.2	15.7	22.6
72.5°	6.1	6.1	6.1	7.0	7.0	7.0	7.0	7.8	10.5	13.1	19.2
75°	5.2	5.2	5.2	5.2	6.1	6.1	6.1	7.0	8.7	11.3	15.7
77.5°	4.4	4.4	4.4	4.4	4.4	5.2	5.2	5.2	7.0	8.7	13.1
80°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	4.4	5.2	7.0	9.6
82.5°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	3.5	4.4	5.2	7.0
85°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	2.6	2.6	3.5	4.4
87.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.7	1.7	1.7	2.6
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°	127.2	127.2	127.2
2.5°	96.7	91.5	88.8
5°	79.3	74.9	74.0
7.5°	73.2	72.3	72.3
10°	71.4	72.3	73.2
12.5°	71.4	73.2	74.0
15°	71.4	73.2	74.0
17.5°	71.4	73.2	74.0
20°	70.6	73.2	74.9
22.5°	69.7	73.2	74.0
25°	68.8	73.2	74.0
27.5°	67.9	72.3	74.0
30°	67.1	72.3	74.9
32.5°	65.3	72.3	74.9
35°	64.5	72.3	74.9
37.5°	63.6	72.3	75.8
40°	62.7	72.3	75.8
42.5°	61.8	72.3	75.8
45°	61.0	71.4	75.8
47.5°	59.2	71.4	75.8
50°	58.4	70.6	74.9
52.5°	56.6	69.7	74.9
55°	54.9	67.9	72.3
57.5°	52.3	65.3	68.8
60°	48.8	61.8	65.3
62.5°	44.4	57.5	60.1
65°	40.9	52.3	55.7
67.5°	35.7	46.2	49.6
70°	31.4	40.1	43.5
72.5°	27.0	34.0	37.5
75°	22.6	27.9	30.5
77.5°	17.4	22.6	24.4
80°	13.9	17.4	19.2
82.5°	9.6	12.2	13.1
85°	6.1	7.8	8.7
87.5°	2.6	3.5	3.5
90°	0.0	0.0	0.0

(END OF REPORT)