

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: P1316908

Luminaire Tested: P3SQAS05R709830DE010 E3SQCA451MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1316908
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: P3SQAS05R709830DE010 E3SQCA451MW
Description: 3in Adjustable LED luminaire with, R70 optic, 3000K CCT AND, 98CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

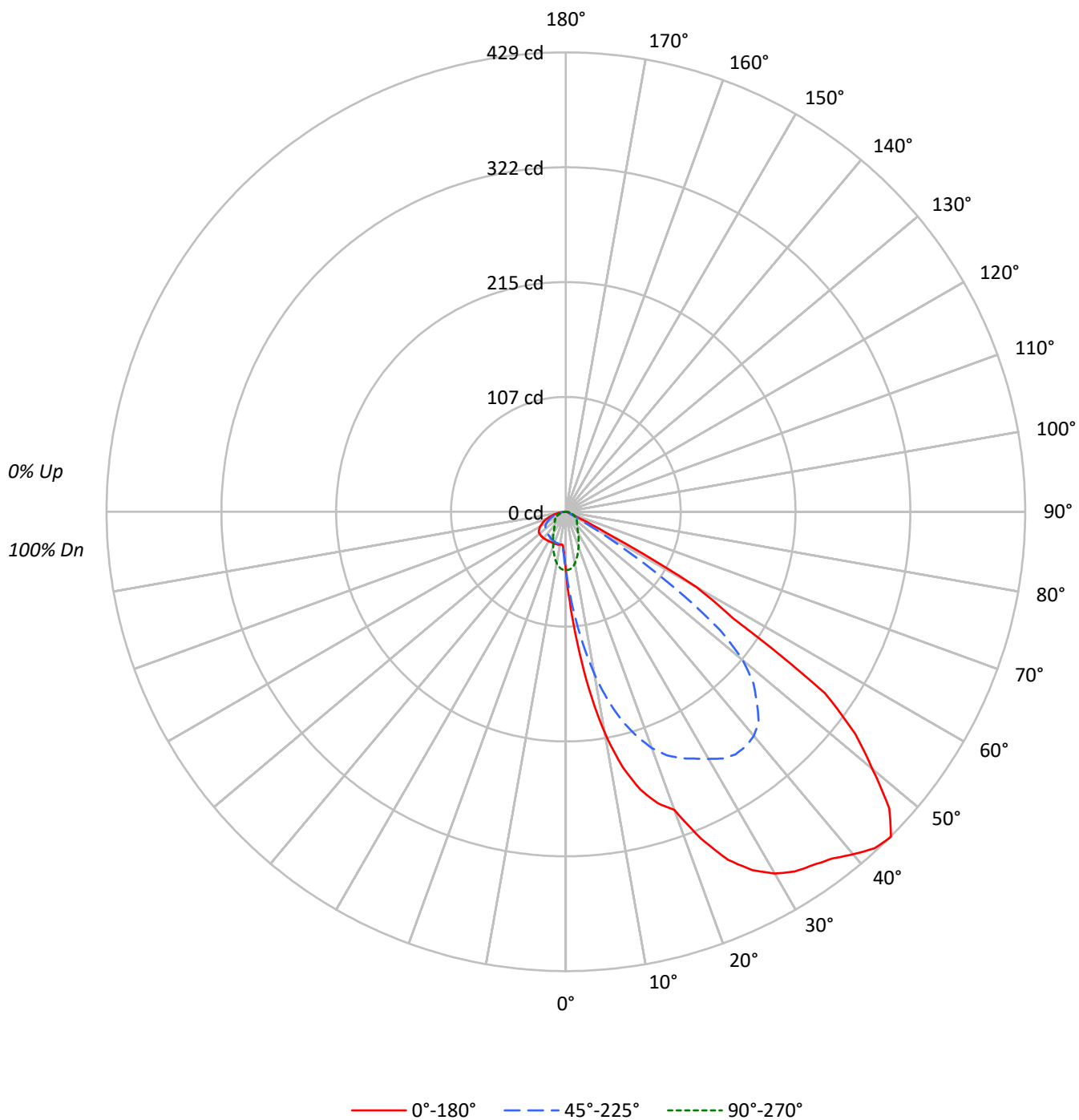
Lumens per Lamp: N/A
Luminaire Lumens: 371.0 lumens
Efficiency: N/A
Efficacy: 51.5 lumens/watt
Spacing Criteria (0/90/45): 2.92 / 0.77 / 2.03
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	9300	9300	9300	9300	9300
5°	21178	16960	9215	5826	5446
10°	36707	26931	8552	5316	5439
15°	47909	35963	7453	5420	5616
20°	54268	43015	6378	5498	5828
25°	68163	48248	5340	5549	5986
30°	77577	52998	4554	5668	6324
35°	84666	58133	3974	5761	6686
40°	93863	61421	3665	6003	7239
45°	104584	61474	3605	6308	7843
50°	100153	57819	3563	6645	8520
55°	88697	37443	3663	6996	9218
60°	48567	8026	3686	7130	9576
65°	3464	1956	3627	7091	9658
70°	1662	1863	3374	6697	9316
75°	1464	1996	3194	6388	8650
80°	1488	1884	2975	5852	8034
85°	1383	2174	2964	5138	7311

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 104584 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.0	1.9
10°-20°	30.2	8.1
20°-30°	57.8	15.6
30°-40°	81.8	22.0
40°-50°	92.5	24.9
50°-60°	73.3	19.8
60°-70°	19.8	5.3
70°-80°	6.6	1.8
80°-90°	2.0	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°	95.0	25.6
0°-40°	176.8	47.7
0°-60°	342.7	92.4
0°-90°	371.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	371.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	54	54	54	54	54	
5°	122	98	53	34	32	14
15°	269	202	42	30	32	76
25°	359	254	28	29	32	164
35°	403	276	19	27	32	254
45°	429	252	15	26	32	321
55°	295	125	12	23	31	240
65°	8	5	9	17	24	31
75°	2	3	5	10	13	2
85°	1	1	2	3	4	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°	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0
2.5°	84.0	84.0	83.7	82.2	81.4	79.6	78.1	74.0	64.0	54.4	46.6
5°	122.5	124.4	121.8	121.4	119.2	115.9	113.6	98.1	74.0	53.3	40.0
7.5°	168.0	168.8	168.0	164.3	161.0	155.5	150.3	125.9	84.0	51.5	35.2
10°	209.9	208.8	206.5	204.0	199.1	193.2	184.3	154.0	93.6	48.9	32.2
12.5°	243.9	243.6	241.0	238.4	232.5	224.7	215.8	179.5	101.8	45.5	30.7
15°	268.7	268.7	266.1	263.2	257.6	251.3	241.3	201.7	108.5	41.8	29.2
17.5°	285.4	284.6	282.8	280.6	276.1	269.8	262.1	219.5	112.9	38.1	28.9
20°	296.1	295.7	294.3	290.9	287.2	282.4	275.4	234.7	114.7	34.8	28.5
22.5°	330.5	327.6	322.0	315.0	306.1	294.6	285.0	246.1	114.0	31.1	27.8
25°	358.7	357.6	351.6	343.1	331.3	316.5	300.6	253.9	110.3	28.1	27.0
27.5°	377.2	375.3	369.8	360.5	347.9	333.5	318.7	259.8	105.1	25.5	25.9
30°	390.1	389.0	383.5	373.1	360.2	344.2	329.1	266.5	98.1	22.9	24.8
32.5°	398.3	397.2	391.6	382.4	369.8	353.1	335.7	273.2	89.6	20.7	23.7
35°	402.7	401.6	395.3	387.2	375.3	359.0	340.5	276.5	79.2	18.9	22.6
37.5°	408.3	406.1	397.5	387.5	375.7	360.5	342.0	276.1	68.8	17.4	21.8
40°	417.5	411.6	399.4	386.1	373.8	358.7	340.9	273.2	57.4	16.3	21.1
42.5°	426.4	417.9	399.8	383.8	370.1	355.3	336.8	266.5	44.8	15.5	20.7
45°	429.4	416.8	394.6	378.7	365.7	350.5	331.3	252.4	30.4	14.8	20.0
47.5°	409.8	400.5	382.0	370.1	357.9	343.1	323.1	237.6	17.4	14.1	19.2
50°	373.8	367.9	357.6	350.2	343.5	333.1	313.5	215.8	10.4	13.3	18.5
52.5°	340.5	338.7	331.3	325.4	321.7	316.8	299.1	182.1	8.5	13.0	17.8
55°	295.4	289.5	287.6	285.4	293.2	292.8	268.7	124.7	8.1	12.2	17.0
57.5°	185.4	188.0	197.7	215.4	236.5	248.7	248.0	66.6	7.8	11.5	15.9
60°	141.0	140.7	143.6	151.0	166.6	184.0	200.2	23.3	7.4	10.7	15.2
62.5°	42.2	43.3	52.2	76.6	91.8	113.3	103.3	5.6	7.0	9.6	13.7
65°	8.5	8.9	8.9	10.0	12.2	18.5	22.6	4.8	6.7	8.9	12.6
67.5°	3.7	3.7	3.7	4.1	4.1	4.8	4.1	4.4	5.9	7.8	11.1
70°	3.3	3.3	3.3	3.3	3.3	3.3	3.7	3.7	5.2	6.7	9.6
72.5°	2.6	2.6	2.6	3.0	3.0	3.0	3.0	3.3	4.4	5.6	8.1
75°	2.2	2.2	2.2	2.2	2.6	2.6	2.6	3.0	3.7	4.8	6.7
77.5°	1.9	1.9	1.9	1.9	1.9	2.2	2.2	2.2	3.0	3.7	5.6
80°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.9	2.2	3.0	4.1
82.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.5	1.9	2.2	3.0
85°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.1	1.1	1.5	1.9
87.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.7	0.7	0.7	1.1
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°	54.0	54.0	54.0
2.5°	41.1	38.9	37.8
5°	33.7	31.8	31.5
7.5°	31.1	30.7	30.7
10°	30.4	30.7	31.1
12.5°	30.4	31.1	31.5
15°	30.4	31.1	31.5
17.5°	30.4	31.1	31.5
20°	30.0	31.1	31.8
22.5°	29.6	31.1	31.5
25°	29.2	31.1	31.5
27.5°	28.9	30.7	31.5
30°	28.5	30.7	31.8
32.5°	27.8	30.7	31.8
35°	27.4	30.7	31.8
37.5°	27.0	30.7	32.2
40°	26.7	30.7	32.2
42.5°	26.3	30.7	32.2
45°	25.9	30.4	32.2
47.5°	25.2	30.4	32.2
50°	24.8	30.0	31.8
52.5°	24.1	29.6	31.8
55°	23.3	28.9	30.7
57.5°	22.2	27.8	29.2
60°	20.7	26.3	27.8
62.5°	18.9	24.4	25.5
65°	17.4	22.2	23.7
67.5°	15.2	19.6	21.1
70°	13.3	17.0	18.5
72.5°	11.5	14.4	15.9
75°	9.6	11.8	13.0
77.5°	7.4	9.6	10.4
80°	5.9	7.4	8.1
82.5°	4.1	5.2	5.6
85°	2.6	3.3	3.7
87.5°	1.1	1.5	1.5
90°	0.0	0.0	0.0

(END OF REPORT)