

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: P1310000

Luminaire Tested: P3SQAS05R709040DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1310000
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: P3SQAS05R709040DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R70 optic, 4000K CCT AND, 90CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

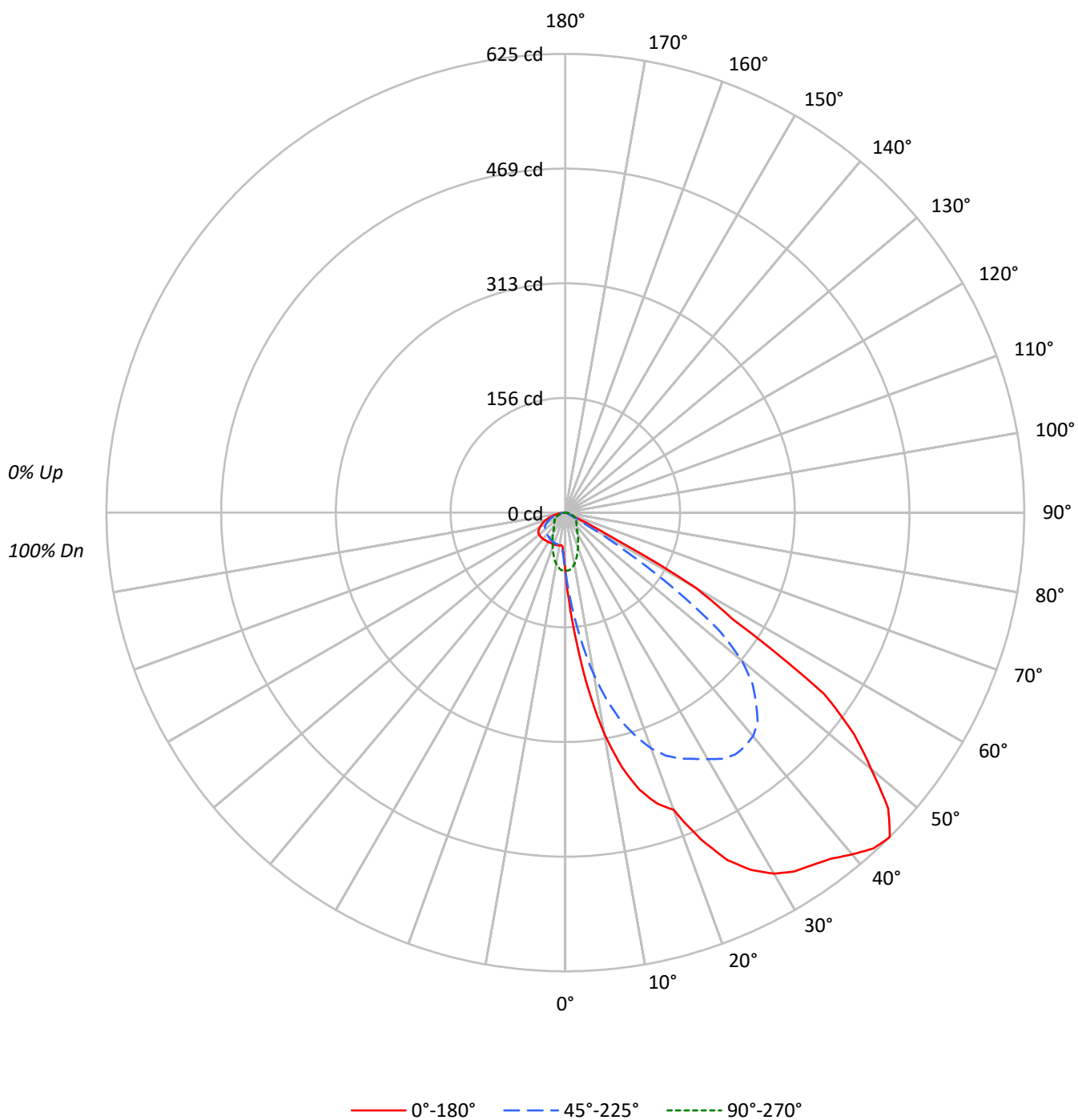
Lumens per Lamp: N/A
Luminaire Lumens: 540.0 lumens
Efficiency: N/A
Efficacy: 75.0 lumens/watt
Spacing Criteria (0/90/45): 2.92 / 0.77 / 2.03
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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			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°	13554	13554	13554	13554	13554
5°	30825	24687	13416	8471	7918
10°	53426	39190	12434	7730	7922
15°	69732	52348	10858	7881	8166
20°	78992	62607	9274	7991	8486
25°	99213	70234	7772	8095	8703
30°	112936	77140	6642	8253	9207
35°	123246	84624	5782	8389	9734
40°	136624	89389	5328	8723	10544
45°	152225	89484	5261	9182	11423
50°	145781	84157	5198	9672	12405
55°	129082	54527	5345	10179	13422
60°	70715	11677	5373	10402	13916
65°	5053	2853	5257	10310	14059
70°	2417	2719	4884	9769	13545
75°	2129	2861	4658	9316	12576
80°	2182	2678	4265	8529	11802
85°	2174	3162	4347	7509	10671

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 152225 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.3	1.9
10°-20°	43.9	8.1
20°-30°	84.2	15.6
30°-40°	119.1	22.0
40°-50°	134.7	24.9
50°-60°	106.7	19.8
60°-70°	28.8	5.3
70°-80°	9.5	1.8
80°-90°	2.9	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°	138.3	25.6
0°-40°	257.4	47.7
0°-60°	498.8	92.4
0°-90°	540.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	540.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	79	79	79	79	79	
5°	178	143	78	49	46	21
15°	391	294	61	44	46	110
25°	522	370	41	43	46	239
35°	586	402	28	40	46	369
45°	625	367	22	38	47	468
55°	430	182	18	34	45	349
65°	12	7	13	25	34	45
75°	3	4	7	14	19	3
85°	1	2	2	4	5	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°	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
2.5°	122.3	122.3	121.8	119.6	118.5	115.8	113.7	107.8	93.2	79.2	67.9
5°	178.3	181.0	177.3	176.7	173.5	168.6	165.4	142.8	107.8	77.6	58.2
7.5°	244.6	245.7	244.6	239.2	234.4	226.3	218.7	183.2	122.3	74.9	51.2
10°	305.5	303.9	300.6	296.9	289.9	281.2	268.3	224.1	136.3	71.1	46.9
12.5°	355.0	354.5	350.7	347.0	338.3	327.0	314.1	261.3	148.2	66.3	44.7
15°	391.1	391.1	387.4	383.1	375.0	365.8	351.3	293.6	157.9	60.9	42.6
17.5°	415.4	414.3	411.6	408.4	401.9	392.8	381.4	319.5	164.3	55.5	42.0
20°	431.0	430.5	428.3	423.5	418.1	411.1	400.8	341.6	167.0	50.6	41.5
22.5°	481.1	476.8	468.7	458.5	445.6	428.9	414.8	358.3	165.9	45.3	40.4
25°	522.1	520.4	511.8	499.4	482.2	460.6	437.5	369.6	160.6	40.9	39.3
27.5°	549.0	546.3	538.2	524.8	506.4	485.4	463.9	378.2	153.0	37.2	37.7
30°	567.9	566.2	558.2	543.1	524.2	501.0	479.0	387.9	142.8	33.4	36.1
32.5°	579.7	578.1	570.0	556.5	538.2	514.0	488.7	397.6	130.4	30.2	34.5
35°	586.2	584.6	575.4	563.5	546.3	522.6	495.7	402.5	115.3	27.5	32.9
37.5°	594.3	591.0	578.6	564.1	546.8	524.8	497.8	401.9	100.2	25.3	31.8
40°	607.7	599.1	581.3	561.9	544.1	522.1	496.2	397.6	83.5	23.7	30.7
42.5°	620.7	608.3	581.9	558.7	538.8	517.2	490.3	387.9	65.2	22.6	30.2
45°	625.0	606.6	574.3	551.2	532.3	510.2	482.2	367.4	44.2	21.6	29.1
47.5°	596.4	582.9	556.0	538.8	521.0	499.4	470.3	345.9	25.3	20.5	28.0
50°	544.1	535.5	520.4	509.7	500.0	484.9	456.3	314.1	15.1	19.4	26.9
52.5°	495.7	493.0	482.2	473.6	468.2	461.2	435.3	265.1	12.4	18.9	25.9
55°	429.9	421.3	418.6	415.4	426.7	426.2	391.1	181.6	11.9	17.8	24.8
57.5°	269.9	273.7	287.7	313.6	344.3	362.0	361.0	97.0	11.3	16.7	23.2
60°	205.3	204.7	209.0	219.8	242.4	267.8	291.5	33.9	10.8	15.6	22.1
62.5°	61.4	63.0	76.0	111.5	133.6	164.9	150.3	8.1	10.2	14.0	19.9
65°	12.4	12.9	12.9	14.5	17.8	26.9	32.9	7.0	9.7	12.9	18.3
67.5°	5.4	5.4	5.4	5.9	5.9	7.0	5.9	6.5	8.6	11.3	16.2
70°	4.8	4.8	4.8	4.8	4.8	4.8	5.4	5.4	7.5	9.7	14.0
72.5°	3.8	3.8	3.8	4.3	4.3	4.3	4.3	4.8	6.5	8.1	11.9
75°	3.2	3.2	3.2	3.2	3.8	3.8	3.8	4.3	5.4	7.0	9.7
77.5°	2.7	2.7	2.7	2.7	2.7	3.2	3.2	3.2	4.3	5.4	8.1
80°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.7	3.2	4.3	5.9
82.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	2.2	2.7	3.2	4.3
85°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.6	1.6	2.2	2.7
87.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.1	1.1	1.1	1.6
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°	78.7	78.7	78.7
2.5°	59.8	56.6	55.0
5°	49.0	46.3	45.8
7.5°	45.3	44.7	44.7
10°	44.2	44.7	45.3
12.5°	44.2	45.3	45.8
15°	44.2	45.3	45.8
17.5°	44.2	45.3	45.8
20°	43.6	45.3	46.3
22.5°	43.1	45.3	45.8
25°	42.6	45.3	45.8
27.5°	42.0	44.7	45.8
30°	41.5	44.7	46.3
32.5°	40.4	44.7	46.3
35°	39.9	44.7	46.3
37.5°	39.3	44.7	46.9
40°	38.8	44.7	46.9
42.5°	38.3	44.7	46.9
45°	37.7	44.2	46.9
47.5°	36.6	44.2	46.9
50°	36.1	43.6	46.3
52.5°	35.0	43.1	46.3
55°	33.9	42.0	44.7
57.5°	32.3	40.4	42.6
60°	30.2	38.3	40.4
62.5°	27.5	35.6	37.2
65°	25.3	32.3	34.5
67.5°	22.1	28.6	30.7
70°	19.4	24.8	26.9
72.5°	16.7	21.0	23.2
75°	14.0	17.2	18.9
77.5°	10.8	14.0	15.1
80°	8.6	10.8	11.9
82.5°	5.9	7.5	8.1
85°	3.8	4.8	5.4
87.5°	1.6	2.2	2.2
90°	0.0	0.0	0.0

(END OF REPORT)