

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: P1306646

Luminaire Tested: P3SQAS05R709027DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1306646
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: P3SQAS05R709027DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R70 optic, 2700K CCT AND, 90CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

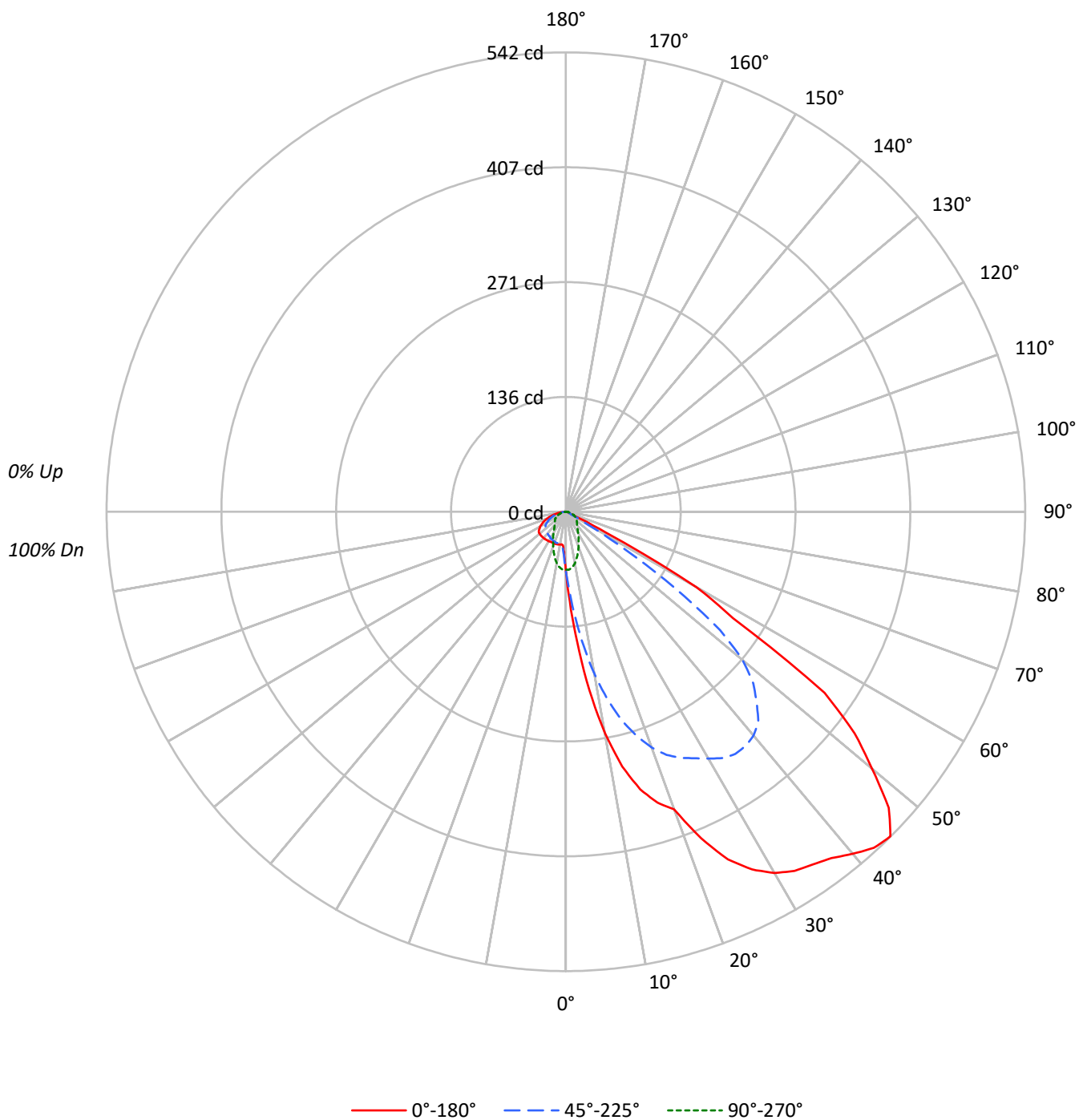
Lumens per Lamp: N/A
Luminaire Lumens: 468.0 lumens
Efficiency: N/A
Efficacy: 65.0 lumens/watt
Spacing Criteria (0/90/45): 2.92 / 0.77 / 2.03
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	55	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°	11746	11746	11746	11746	11746
5°	26727	21385	11618	7347	6863
10°	46291	33962	10773	6698	6855
15°	60443	45377	9414	6829	7078
20°	68453	54250	8046	6928	7368
25°	85968	60866	6746	7012	7544
30°	97862	66859	5747	7159	7994
35°	106804	73333	5004	7274	8452
40°	118413	77473	4609	7554	9128
45°	131912	77549	4555	7964	9889
50°	126356	72931	4501	8386	10771
55°	111877	47261	4624	8828	11650
60°	61277	10127	4650	8990	12056
65°	4360	2486	4564	8925	12185
70°	2115	2367	4230	8460	11733
75°	1863	2462	4059	8052	10846
80°	1884	2281	3670	7438	10215
85°	1778	2766	3754	6521	9287

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 131912 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.9	1.9
10°-20°	38.0	8.1
20°-30°	73.0	15.6
30°-40°	103.2	22.1
40°-50°	116.7	24.9
50°-60°	92.4	19.8
60°-70°	24.9	5.3
70°-80°	8.3	1.8
80°-90°	2.5	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°	119.9	25.6
0°-40°	223.1	47.7
0°-60°	432.3	92.4
0°-90°	468.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	468.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	68	68	68	68	68	
5°	155	124	67	42	40	18
15°	339	254	53	38	40	96
25°	452	320	36	37	40	207
35°	508	349	24	35	40	320
45°	542	318	19	33	41	405
55°	373	157	15	29	39	302
65°	11	6	11	22	30	39
75°	3	4	6	12	16	3
85°	1	1	2	3	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°	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2
2.5°	106.0	106.0	105.5	103.7	102.7	100.4	98.5	93.4	80.8	68.6	58.8
5°	154.6	156.9	153.6	153.2	150.3	146.1	143.3	123.7	93.4	67.2	50.4
7.5°	212.0	212.9	212.0	207.3	203.1	196.1	189.6	158.8	106.0	64.9	44.4
10°	264.7	263.3	260.5	257.3	251.2	243.7	232.5	194.2	118.1	61.6	40.6
12.5°	307.7	307.2	304.0	300.7	293.2	283.4	272.2	226.5	128.4	57.4	38.8
15°	339.0	339.0	335.7	332.0	325.0	317.0	304.4	254.5	136.8	52.8	36.9
17.5°	360.0	359.1	356.7	353.9	348.3	340.4	330.6	276.9	142.4	48.1	36.4
20°	373.5	373.1	371.2	367.0	362.3	356.3	347.4	296.0	144.7	43.9	36.0
22.5°	417.0	413.2	406.2	397.4	386.1	371.7	359.5	310.5	143.8	39.2	35.0
25°	452.4	451.0	443.6	432.8	417.9	399.2	379.1	320.3	139.1	35.5	34.1
27.5°	475.8	473.5	466.5	454.8	438.9	420.7	402.0	327.8	132.6	32.2	32.7
30°	492.1	490.7	483.7	470.7	454.3	434.2	415.1	336.2	123.7	28.9	31.3
32.5°	502.4	501.0	494.0	482.3	466.5	445.4	423.5	344.6	113.0	26.1	29.9
35°	508.0	506.6	498.7	488.4	473.5	452.9	429.6	348.8	99.9	23.8	28.5
37.5°	515.0	512.2	501.5	488.9	473.9	454.8	431.4	348.3	86.8	21.9	27.5
40°	526.7	519.2	503.8	487.0	471.6	452.4	430.0	344.6	72.4	20.5	26.6
42.5°	537.9	527.2	504.3	484.2	466.9	448.2	424.9	336.2	56.5	19.6	26.1
45°	541.6	525.8	497.7	477.7	461.3	442.2	417.9	318.4	38.3	18.7	25.2
47.5°	516.9	505.2	481.9	466.9	451.5	432.8	407.6	299.8	21.9	17.7	24.3
50°	471.6	464.1	451.0	441.7	433.3	420.2	395.5	272.2	13.1	16.8	23.3
52.5°	429.6	427.2	417.9	410.4	405.8	399.7	377.3	229.7	10.7	16.3	22.4
55°	372.6	365.1	362.8	360.0	369.8	369.3	339.0	157.4	10.3	15.4	21.5
57.5°	233.9	237.2	249.3	271.7	298.4	313.8	312.8	84.0	9.8	14.5	20.1
60°	177.9	177.4	181.2	190.5	210.1	232.1	252.6	29.4	9.3	13.5	19.1
62.5°	53.2	54.6	65.8	96.7	115.8	142.9	130.3	7.0	8.9	12.1	17.3
65°	10.7	11.2	11.2	12.6	15.4	23.3	28.5	6.1	8.4	11.2	15.9
67.5°	4.7	4.7	4.7	5.1	5.1	6.1	5.1	5.6	7.5	9.8	14.0
70°	4.2	4.2	4.2	4.2	4.2	4.2	4.7	4.7	6.5	8.4	12.1
72.5°	3.3	3.3	3.3	3.7	3.7	3.7	3.7	4.2	5.6	7.0	10.3
75°	2.8	2.8	2.8	2.8	3.3	3.3	3.3	3.7	4.7	6.1	8.4
77.5°	2.3	2.3	2.3	2.3	2.3	2.8	2.8	2.8	3.7	4.7	7.0
80°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.3	2.8	3.7	5.1
82.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.9	2.3	2.8	3.7
85°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.4	1.4	1.9	2.3
87.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.9	0.9	0.9	1.4
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°	68.2	68.2	68.2
2.5°	51.8	49.0	47.6
5°	42.5	40.2	39.7
7.5°	39.2	38.8	38.8
10°	38.3	38.8	39.2
12.5°	38.3	39.2	39.7
15°	38.3	39.2	39.7
17.5°	38.3	39.2	39.7
20°	37.8	39.2	40.2
22.5°	37.4	39.2	39.7
25°	36.9	39.2	39.7
27.5°	36.4	38.8	39.7
30°	36.0	38.8	40.2
32.5°	35.0	38.8	40.2
35°	34.6	38.8	40.2
37.5°	34.1	38.8	40.6
40°	33.6	38.8	40.6
42.5°	33.2	38.8	40.6
45°	32.7	38.3	40.6
47.5°	31.8	38.3	40.6
50°	31.3	37.8	40.2
52.5°	30.4	37.4	40.2
55°	29.4	36.4	38.8
57.5°	28.0	35.0	36.9
60°	26.1	33.2	35.0
62.5°	23.8	30.8	32.2
65°	21.9	28.0	29.9
67.5°	19.1	24.7	26.6
70°	16.8	21.5	23.3
72.5°	14.5	18.2	20.1
75°	12.1	14.9	16.3
77.5°	9.3	12.1	13.1
80°	7.5	9.3	10.3
82.5°	5.1	6.5	7.0
85°	3.3	4.2	4.7
87.5°	1.4	1.9	1.9
90°	0.0	0.0	0.0

(END OF REPORT)