

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: P1312173

Luminaire Tested: P3SQAS05R559727DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1312173
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-80)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS05R559727DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R55 optic, 2700K CCT AND, 97CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

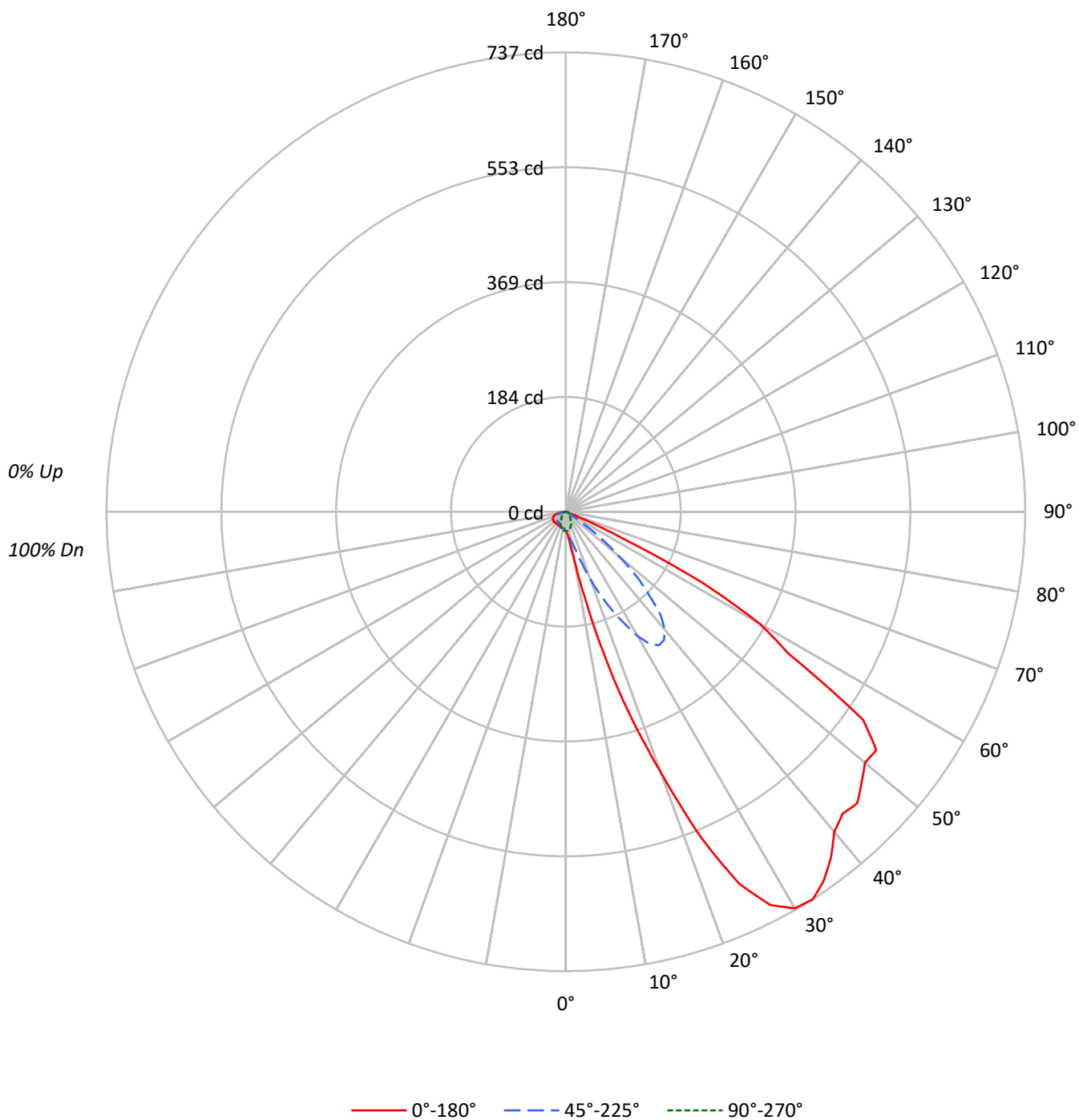
Lumens per Lamp: N/A
Luminaire Lumens: 474.0 lumens
Efficiency: N/A
Efficacy: 65.8 lumens/watt
Spacing Criteria (0/90/45): 3.76 / 0.91 / 1.95
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	102	99	107	104	100	97	99	97	94	95	93	91	92	90	88	86		
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73		
3	91	81	73	67	89	80	72	67	77	71	65	74	69	64	72	67	63	61		
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51		
5	76	63	54	47	74	62	53	47	60	52	47	58	51	46	56	50	46	43		
6	69	56	47	40	68	55	46	40	53	46	40	51	45	39	50	44	39	37		
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	38	34	32		
8	59	45	36	30	57	44	36	30	43	35	30	41	35	29	40	34	29	27		
9	54	40	32	26	53	40	32	26	39	31	26	38	31	26	36	30	26	24		
10	50	37	28	23	49	36	28	23	35	28	23	34	27	23	33	27	23	21		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	5270	5270	5270	5270	5270
5°	6725	6155	5290	4927	4772
10°	13693	7835	5124	4687	4687
15°	42043	12017	4778	4547	4707
20°	81283	21040	4307	4454	4674
25°	125114	32704	3744	4295	4694
30°	146087	45719	3082	4256	4832
35°	151797	54937	2544	4226	5025
40°	150652	55463	2361	4429	5463
45°	161066	45911	2241	4798	5918
50°	167859	30303	2251	5171	6618
55°	174782	13211	2252	5645	7296
60°	123484	3031	2308	6200	8232
65°	40262	1019	2201	6642	9210
70°	1259	1057	2316	7150	10524
75°	1131	1131	1930	7519	11711
80°	793	1289	2083	7438	12497
85°	790	1581	2569	7509	12449

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 177609 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.2	0.7
10°-20°	20.1	4.2
20°-30°	67.5	14.2
30°-40°	110.8	23.4
40°-50°	123.6	26.1
50°-60°	104.0	21.9
60°-70°	35.3	7.4
70°-80°	6.9	1.5
80°-90°	2.6	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°	90.8	19.2
0°-40°	201.6	42.5
0°-60°	429.2	90.6
0°-90°	474.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	474.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	31	31	31	31	31	
5°	39	36	31	28	28	5
15°	236	67	27	26	26	75
25°	658	172	20	23	25	296
35°	722	261	12	20	24	448
45°	661	188	9	20	24	505
55°	582	44	8	19	24	474
65°	99	2	5	16	23	134
75°	2	2	3	11	18	2
85°	0	1	1	4	6	1
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6
2.5°	33.5	33.5	33.5	33.5	33.5	33.5	33.1	31.8	31.0	29.7	29.3
5°	38.9	38.9	38.9	38.5	38.5	37.7	35.6	32.7	30.6	28.9	28.5
7.5°	50.3	49.8	49.0	48.6	47.3	46.9	39.4	33.5	30.2	28.1	27.6
10°	78.3	77.5	76.2	71.6	67.4	64.5	44.8	33.9	29.3	27.2	26.8
12.5°	141.1	139.5	133.2	123.5	111.8	106.0	53.6	34.3	28.1	26.4	26.4
15°	235.8	233.7	222.0	208.6	187.2	175.5	67.4	33.9	26.8	25.1	25.5
17.5°	340.5	334.6	322.5	304.9	276.0	262.2	87.9	33.1	25.1	24.3	25.1
20°	443.5	441.8	421.7	397.9	362.3	343.8	114.8	31.8	23.5	23.0	24.3
22.5°	564.1	557.0	535.7	510.1	461.1	436.8	143.7	30.2	21.8	21.8	23.5
25°	658.4	650.0	633.2	603.5	557.0	531.0	172.1	28.1	19.7	20.5	22.6
27.5°	711.1	701.5	688.9	663.4	627.4	604.3	200.6	25.5	17.6	19.3	21.8
30°	734.6	732.1	722.9	704.0	670.9	650.4	229.9	22.6	15.5	18.0	21.4
32.5°	737.1	738.4	734.6	722.4	697.3	679.7	251.7	20.1	13.8	17.2	20.5
35°	722.0	726.6	729.1	724.1	707.8	693.5	261.3	17.2	12.1	16.3	20.1
37.5°	698.6	706.9	715.3	716.6	706.5	697.3	258.8	14.7	11.3	15.9	20.1
40°	670.1	677.6	694.8	705.7	702.3	695.6	246.7	12.1	10.5	15.1	19.7
42.5°	657.1	658.8	677.2	695.6	694.8	689.4	225.3	9.6	9.6	15.1	19.7
45°	661.3	653.8	665.9	687.3	686.0	678.9	188.5	7.5	9.2	14.7	19.7
47.5°	643.7	633.2	653.8	678.9	674.3	663.8	155.8	5.4	8.8	14.2	19.3
50°	626.5	624.9	640.8	653.3	647.1	641.2	113.1	4.2	8.4	13.8	19.3
52.5°	627.8	624.9	626.5	626.1	613.6	607.3	77.5	3.4	8.0	13.4	19.3
55°	582.1	572.9	564.1	566.6	567.5	563.3	44.0	2.9	7.5	13.4	18.8
57.5°	423.0	420.5	430.1	457.3	478.7	481.2	21.4	2.9	7.1	13.0	18.4
60°	358.5	356.8	357.2	365.2	376.5	369.4	8.8	2.9	6.7	12.6	18.0
62.5°	247.1	263.4	270.1	288.6	281.0	271.0	3.4	3.4	6.3	11.7	17.6
65°	98.8	98.4	107.6	116.4	113.9	106.4	2.5	2.9	5.4	10.9	16.3
67.5°	23.0	20.9	18.0	15.5	13.0	10.5	2.5	2.9	5.0	10.1	15.5
70°	2.5	2.5	2.5	2.5	2.5	2.1	2.1	2.9	4.6	9.2	14.2
72.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.5	3.8	8.0	13.0
75°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	2.1	2.9	6.7	11.3
77.5°	1.3	1.3	1.3	1.7	1.3	1.7	1.7	2.1	2.5	5.4	9.6
80°	0.8	0.8	1.3	1.3	1.3	1.3	1.3	1.7	2.1	4.6	7.5
82.5°	0.8	0.8	0.8	0.8	0.8	0.8	1.3	1.3	1.7	3.4	5.4
85°	0.4	0.4	0.4	0.4	0.4	0.8	0.8	1.3	1.3	2.5	3.8
87.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.8	0.8	1.3	1.3	1.7
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):

	157.5°	180°
0°	30.6	30.6
2.5°	28.9	28.9
5°	28.1	27.6
7.5°	27.2	27.2
10°	26.8	26.8
12.5°	26.4	26.8
15°	26.4	26.4
17.5°	25.5	26.0
20°	25.1	25.5
22.5°	24.7	25.1
25°	24.3	24.7
27.5°	23.9	24.3
30°	23.5	24.3
32.5°	23.0	23.9
35°	23.0	23.9
37.5°	23.0	24.3
40°	23.0	24.3
42.5°	23.0	24.3
45°	23.0	24.3
47.5°	23.0	24.3
50°	23.0	24.7
52.5°	23.0	24.7
55°	23.0	24.3
57.5°	22.6	24.3
60°	22.6	23.9
62.5°	22.2	23.5
65°	21.4	22.6
67.5°	20.5	22.2
70°	19.3	20.9
72.5°	18.0	19.3
75°	16.3	17.6
77.5°	14.2	15.1
80°	11.3	12.6
82.5°	8.8	9.6
85°	5.9	6.3
87.5°	2.5	2.9
90°	0.0	0.0

(END OF REPORT)