

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: P1316901

Luminaire Tested: P3SQAS05R659830DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1316901
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-82)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS05R659830DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R65 optic, 3000K CCT AND, 98CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

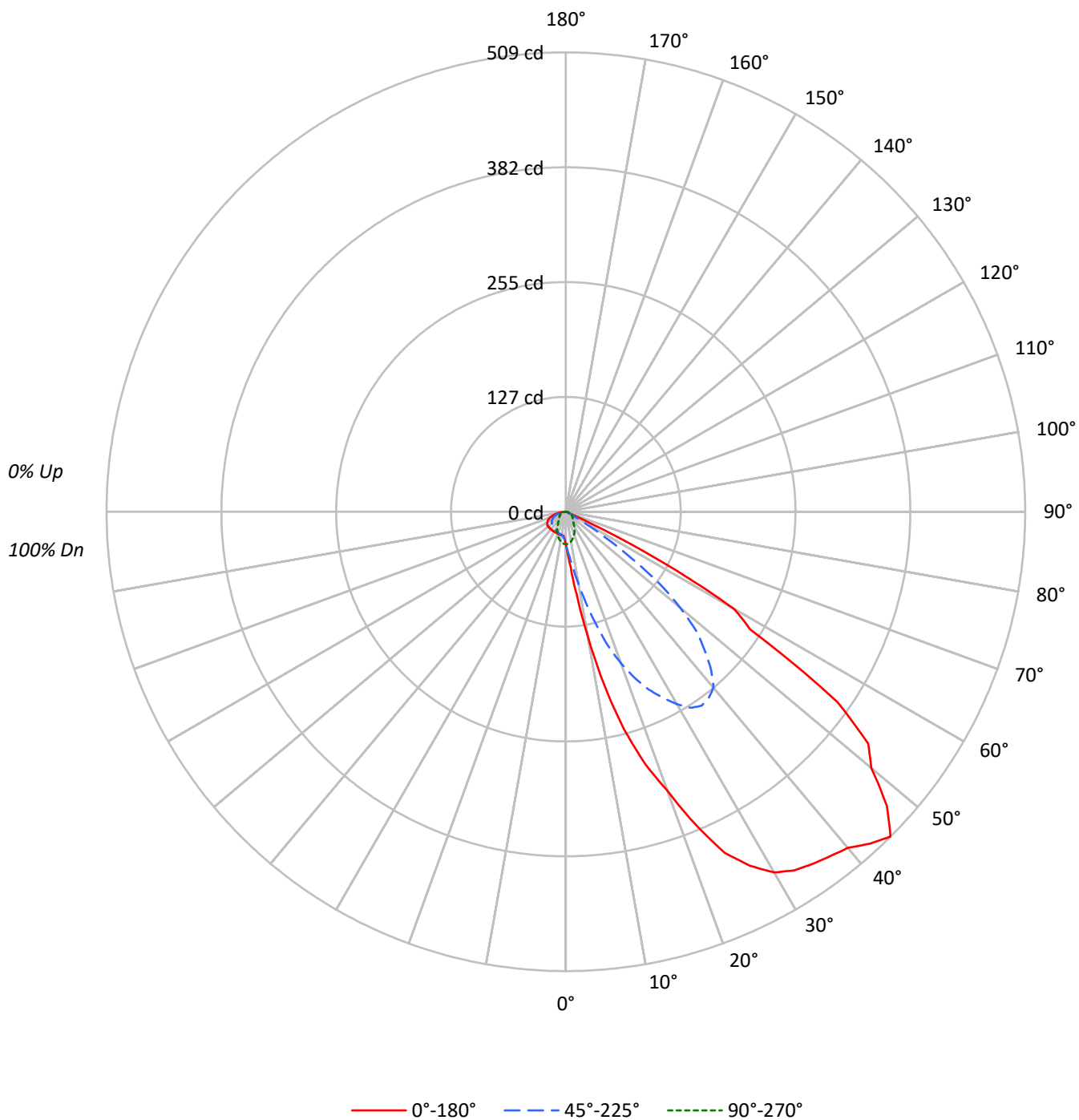
Lumens per Lamp: N/A
Luminaire Lumens: 368.9 lumens
Efficiency: N/A
Efficacy: 51.2 lumens/watt
Spacing Criteria (0/90/45): 3.28 / 0.89 / 2.04
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	100		
1	110	106	102	99	108	104	100	97	100	97	94	96	94	91	92	90	89	87		
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	74		
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	62		
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55	53		
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45		
6	71	57	49	42	69	57	48	42	55	47	42	53	46	41	51	46	41	39		
7	65	52	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	34		
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29		
9	56	42	34	28	54	41	33	28	40	33	28	39	33	28	38	32	28	26		
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	6183	6183	6183	6183	6183
5°	10805	8834	6068	4927	4737
10°	24466	14235	5823	4529	4599
15°	44468	22893	5402	4547	4689
20°	60279	32678	4875	4545	4747
25°	79241	41274	4295	4428	4846
30°	91757	48921	3679	4415	5071
35°	100182	55147	3112	4520	5361
40°	109308	57217	2743	4744	5733
45°	123899	53072	2606	5042	6211
50°	118372	44316	2572	5359	6832
55°	110316	24892	2672	5765	7567
60°	74297	5339	2687	6131	8163
65°	11451	1345	2567	6316	8884
70°	1309	1309	2417	6496	9517
75°	1198	1198	2196	6388	9582
80°	1091	1488	2182	5852	9521
85°	790	1383	2174	5928	8695

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 123899 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.3	1.2
10°-20°	23.5	6.4
20°-30°	55.1	14.9
30°-40°	83.3	22.6
40°-50°	95.7	25.9
50°-60°	76.0	20.6
60°-70°	22.8	6.2
70°-80°	6.2	1.7
80°-90°	2.1	0.6
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°	82.9	22.5
0°-40°	166.2	45.1
0°-60°	337.9	91.6
0°-90°	368.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	368.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	36	36	36	36	36	
5°	62	51	35	28	27	8
15°	249	128	30	26	26	72
25°	417	217	23	23	26	190
35°	476	262	15	22	26	299
45°	509	218	11	21	26	378
55°	367	83	9	19	25	303
65°	28	3	6	16	22	63
75°	2	2	3	10	14	2
85°	0	1	1	3	4	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°	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9
2.5°	45.5	45.9	45.5	45.5	45.1	44.8	42.2	39.2	35.9	33.3	31.4
5°	62.5	62.9	61.8	61.8	61.0	59.9	51.1	42.5	35.1	31.1	28.5
7.5°	92.5	94.0	92.1	89.9	85.8	85.1	63.6	45.9	34.4	28.9	26.6
10°	139.9	138.7	136.9	132.5	125.4	122.1	81.4	49.2	33.3	27.4	25.9
12.5°	197.2	194.2	192.0	183.9	174.3	168.7	103.6	52.2	31.8	25.9	25.5
15°	249.4	247.1	242.0	234.2	222.4	217.9	128.4	54.0	30.3	24.8	25.5
17.5°	293.4	291.2	288.2	280.4	268.2	261.6	156.1	55.1	28.5	24.0	25.2
20°	328.9	327.4	323.4	317.1	304.9	298.6	178.3	55.1	26.6	23.3	24.8
22.5°	374.8	371.5	366.3	357.0	341.9	332.2	199.4	54.0	24.8	22.6	24.0
25°	417.0	414.8	408.1	397.0	380.7	371.1	217.2	51.8	22.6	21.5	23.3
27.5°	442.1	440.7	434.4	422.9	404.8	397.4	232.0	48.5	20.3	20.3	22.9
30°	461.4	458.4	452.1	441.0	422.5	413.6	246.0	44.4	18.5	19.2	22.2
32.5°	471.0	469.9	464.3	454.7	436.6	426.6	257.5	39.2	16.3	18.5	21.8
35°	476.5	475.4	471.0	461.7	444.7	435.1	262.3	34.4	14.8	17.8	21.5
37.5°	481.0	479.9	474.3	465.1	448.0	438.1	260.1	29.2	13.3	17.0	21.1
40°	486.2	482.1	473.6	464.3	448.8	439.2	254.5	24.4	12.2	16.6	21.1
42.5°	498.7	484.7	471.4	462.8	448.0	437.0	238.6	19.2	11.1	15.9	20.7
45°	508.7	483.9	466.9	460.3	445.1	432.5	217.9	14.1	10.7	15.5	20.7
47.5°	482.5	467.3	459.5	455.8	439.5	425.9	196.5	9.6	10.4	15.2	20.3
50°	441.8	439.9	437.0	437.3	422.5	411.4	165.4	6.7	9.6	14.8	20.0
52.5°	422.2	419.9	414.8	411.1	396.3	386.6	131.0	5.2	9.2	14.4	19.6
55°	367.4	368.9	363.3	365.5	361.1	356.3	82.9	4.8	8.9	13.7	19.2
57.5°	242.0	249.4	262.3	277.9	291.9	301.5	44.8	4.8	8.1	13.3	18.5
60°	215.7	213.9	213.5	216.4	222.7	227.9	15.5	4.4	7.8	12.2	17.8
62.5°	118.0	117.3	128.4	147.3	158.4	159.5	4.4	4.4	7.0	11.5	16.6
65°	28.1	29.2	32.6	40.7	48.1	52.9	3.3	4.1	6.3	10.7	15.5
67.5°	4.4	4.8	4.8	5.9	6.7	6.7	3.0	3.7	5.5	9.6	14.4
70°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	3.3	4.8	8.5	12.9
72.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.6	3.0	4.1	7.4	11.1
75°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.6	3.3	5.9	9.6
77.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.8	2.2	3.0	4.8	7.8
80°	1.1	1.1	1.1	1.1	1.1	1.1	1.5	1.8	2.2	3.7	5.9
82.5°	0.7	0.7	0.7	0.7	0.7	0.7	1.1	1.5	1.8	3.0	4.4
85°	0.4	0.4	0.4	0.4	0.7	0.7	0.7	1.1	1.1	1.8	3.0
87.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.7	0.7	0.7	1.1	1.5
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°	35.9	35.9
2.5°	30.3	30.0
5°	27.4	27.4
7.5°	26.3	26.3
10°	25.9	26.3
12.5°	25.9	26.3
15°	25.9	26.3
17.5°	25.9	26.3
20°	25.5	25.9
22.5°	25.2	25.5
25°	24.8	25.5
27.5°	24.4	25.5
30°	24.4	25.5
32.5°	24.4	25.5
35°	24.0	25.5
37.5°	24.0	25.5
40°	24.0	25.5
42.5°	24.0	25.5
45°	24.0	25.5
47.5°	24.0	25.5
50°	24.0	25.5
52.5°	23.7	25.5
55°	23.7	25.2
57.5°	22.9	24.4
60°	22.2	23.7
62.5°	21.5	22.9
65°	20.3	21.8
67.5°	19.2	20.3
70°	17.4	18.9
72.5°	15.5	16.6
75°	13.3	14.4
77.5°	11.1	12.2
80°	8.9	9.6
82.5°	6.3	7.0
85°	4.1	4.4
87.5°	1.8	1.8
90°	0.0	0.0

(END OF REPORT)