

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: P1312188

Luminaire Tested: P3SQAS05R659727DE010 E3SQCA451MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1312188
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: P3SQAS05R659727DE010 E3SQCA451MB
Description: 3in Adjustable LED luminaire with, R65 optic, 2700K CCT AND, 97CRI , E3SQCA451MB TRIM
Light Source: -
Ballast/Driver: -

Summary

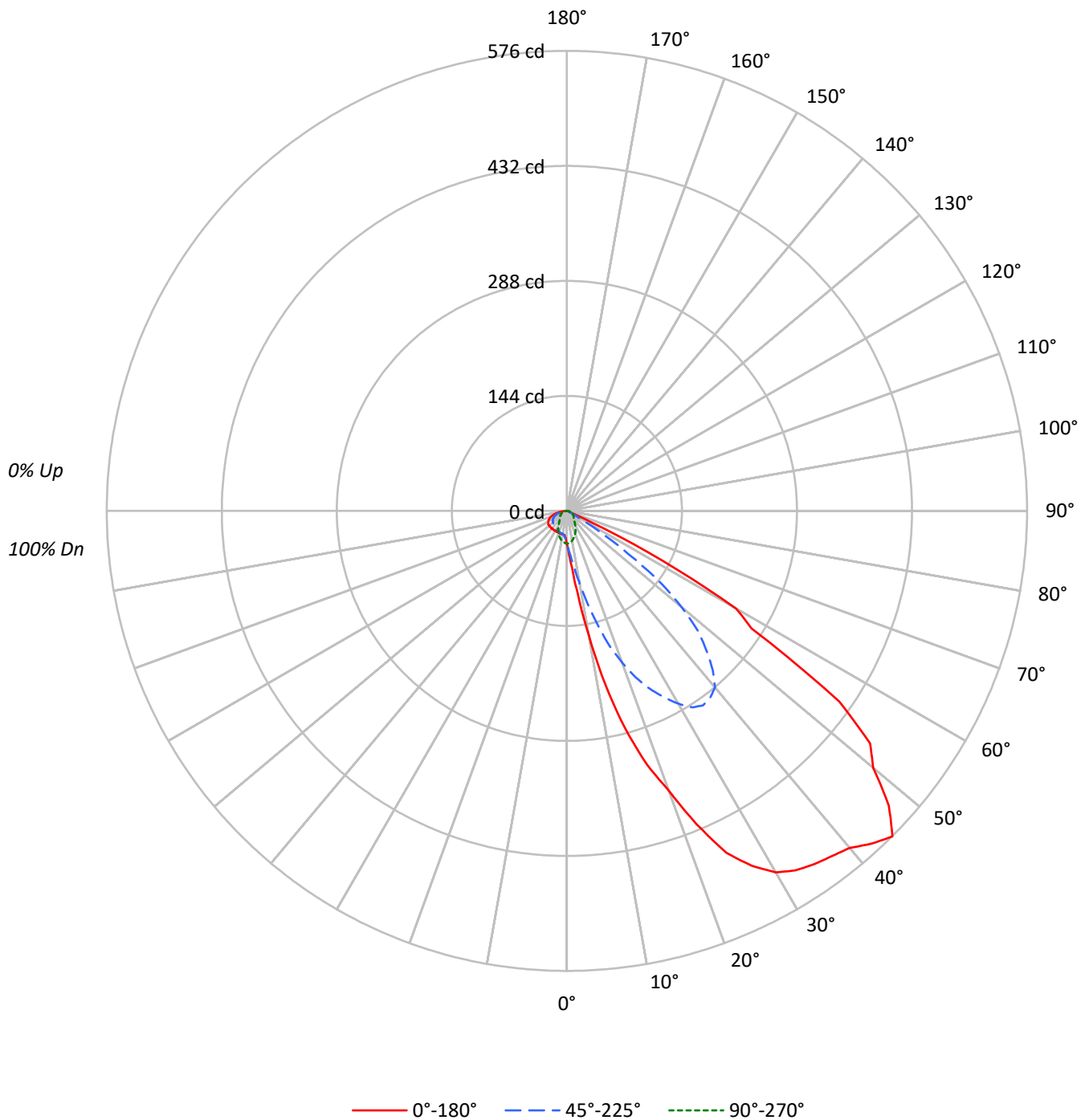
Lumens per Lamp: N/A
Luminaire Lumens: 418.0 lumens
Efficiency: N/A
Efficacy: 58.1 lumens/watt
Spacing Criteria (0/90/45): 3.28 / 0.89 / 2.04
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	110	106	102	99	108	104	100	97	100	97	94	96	94	91	92	90	89
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47
6	71	57	49	42	69	57	48	42	55	47	42	53	46	41	51	46	41
7	65	52	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31
9	56	42	34	28	54	41	33	28	40	33	28	39	33	28	38	32	28
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	7009	7009	7009	7009	7009
5°	12240	9992	6881	5584	5359
10°	27701	16124	6593	5124	5211
15°	50369	25925	6133	5153	5313
20°	68288	37022	5535	5150	5370
25°	89750	46747	4865	5017	5492
30°	103927	55424	4176	4992	5747
35°	113490	62485	3532	5109	6076
40°	123809	64838	3103	5373	6497
45°	140363	60135	2971	5724	7039
50°	134073	50183	2920	6055	7743
55°	124969	28195	3033	6546	8557
60°	84148	6062	3031	6923	9231
65°	13000	1549	2893	7172	10066
70°	1460	1460	2719	7402	10776
75°	1397	1397	2529	7253	10846
80°	1289	1686	2479	6645	10811
85°	790	1581	2569	6719	9880

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 140363 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.9	1.2
10°-20°	26.6	6.4
20°-30°	62.5	14.9
30°-40°	94.3	22.6
40°-50°	108.4	25.9
50°-60°	86.1	20.6
60°-70°	25.8	6.2
70°-80°	7.0	1.7
80°-90°	2.4	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°	94.0	22.5
0°-40°	188.3	45.0
0°-60°	382.8	91.6
0°-90°	418.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	418.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	41	41	41	41	41	
5°	71	58	40	32	31	9
15°	282	145	34	29	30	81
25°	472	246	26	26	29	216
35°	540	297	17	24	29	339
45°	576	247	12	24	29	428
55°	416	94	10	22	28	343
65°	32	4	7	18	25	71
75°	2	2	4	11	16	2
85°	0	1	1	3	5	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°	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7
2.5°	51.6	52.0	51.6	51.6	51.1	50.7	47.8	44.4	40.7	37.7	35.6
5°	70.8	71.2	70.0	70.0	69.2	67.9	57.8	48.2	39.8	35.2	32.3
7.5°	104.8	106.5	104.4	101.8	97.2	96.4	72.1	52.0	39.0	32.7	30.2
10°	158.4	157.2	155.1	150.0	142.1	138.3	92.2	55.7	37.7	31.0	29.3
12.5°	223.4	220.0	217.5	208.3	197.4	191.1	117.4	59.1	36.0	29.3	28.9
15°	282.5	280.0	274.1	265.3	251.9	246.9	145.4	61.2	34.4	28.1	28.9
17.5°	332.4	329.8	326.5	317.7	303.9	296.3	176.9	62.4	32.3	27.2	28.5
20°	372.6	370.9	366.3	359.2	345.3	338.2	202.0	62.4	30.2	26.4	28.1
22.5°	424.6	420.8	414.9	404.4	387.3	376.4	225.9	61.2	28.1	25.6	27.2
25°	472.3	469.8	462.3	449.7	431.3	420.4	246.0	58.7	25.6	24.3	26.4
27.5°	500.8	499.2	492.0	479.0	458.5	450.1	262.8	54.9	23.1	23.1	26.0
30°	522.6	519.3	512.2	499.6	478.6	468.6	278.7	50.3	21.0	21.8	25.1
32.5°	533.5	532.3	526.0	515.1	494.6	483.2	291.7	44.4	18.4	21.0	24.7
35°	539.8	538.6	533.5	523.1	503.8	492.9	297.2	39.0	16.8	20.1	24.3
37.5°	544.8	543.6	537.3	526.8	507.5	496.2	294.6	33.1	15.1	19.3	23.9
40°	550.7	546.1	536.5	526.0	508.4	497.5	288.4	27.7	13.8	18.9	23.9
42.5°	565.0	549.0	534.0	524.3	507.5	495.0	270.3	21.8	12.6	18.0	23.5
45°	576.3	548.2	528.9	521.4	504.2	489.9	246.9	15.9	12.2	17.6	23.5
47.5°	546.5	529.3	520.5	516.3	497.9	482.4	222.5	10.9	11.7	17.2	23.1
50°	500.4	498.3	495.0	495.4	478.6	466.1	187.3	7.5	10.9	16.8	22.6
52.5°	478.2	475.7	469.8	465.6	448.9	438.0	148.4	5.9	10.5	16.3	22.2
55°	416.2	417.9	411.6	414.1	409.1	403.6	93.9	5.4	10.1	15.5	21.8
57.5°	274.1	282.5	297.2	314.8	330.7	341.6	50.7	5.4	9.2	15.1	21.0
60°	244.3	242.2	241.8	245.2	252.3	258.2	17.6	5.0	8.8	13.8	20.1
62.5°	133.7	132.9	145.4	166.8	179.4	180.6	5.0	5.0	8.0	13.0	18.9
65°	31.9	33.1	36.9	46.1	54.5	59.9	3.8	4.6	7.1	12.2	17.6
67.5°	5.0	5.4	5.4	6.7	7.5	7.5	3.4	4.2	6.3	10.9	16.3
70°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	3.8	5.4	9.6	14.7
72.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.9	3.4	4.6	8.4	12.6
75°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.9	3.8	6.7	10.9
77.5°	1.7	1.7	1.7	1.7	1.7	1.7	2.1	2.5	3.4	5.4	8.8
80°	1.3	1.3	1.3	1.3	1.3	1.3	1.7	2.1	2.5	4.2	6.7
82.5°	0.8	0.8	0.8	0.8	0.8	0.8	1.3	1.7	2.1	3.4	5.0
85°	0.4	0.4	0.4	0.4	0.8	0.8	0.8	1.3	1.3	2.1	3.4
87.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.8	0.8	0.8	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°	40.7	40.7
2.5°	34.4	33.9
5°	31.0	31.0
7.5°	29.8	29.8
10°	29.3	29.8
12.5°	29.3	29.8
15°	29.3	29.8
17.5°	29.3	29.8
20°	28.9	29.3
22.5°	28.5	28.9
25°	28.1	28.9
27.5°	27.7	28.9
30°	27.7	28.9
32.5°	27.7	28.9
35°	27.2	28.9
37.5°	27.2	28.9
40°	27.2	28.9
42.5°	27.2	28.9
45°	27.2	28.9
47.5°	27.2	28.9
50°	27.2	28.9
52.5°	26.8	28.9
55°	26.8	28.5
57.5°	26.0	27.7
60°	25.1	26.8
62.5°	24.3	26.0
65°	23.1	24.7
67.5°	21.8	23.1
70°	19.7	21.4
72.5°	17.6	18.9
75°	15.1	16.3
77.5°	12.6	13.8
80°	10.1	10.9
82.5°	7.1	8.0
85°	4.6	5.0
87.5°	2.1	2.1
90°	0.0	0.0

(END OF REPORT)