

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: P1313146

Luminaire Tested: P3SQAS05R559730DE010 E3SQCA451MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1313146
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: P3SQAS05R559730DE010 E3SQCA451MW
Description: 3in Adjustable LED luminaire with, R55 optic, 3000K CCT AND, 97CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

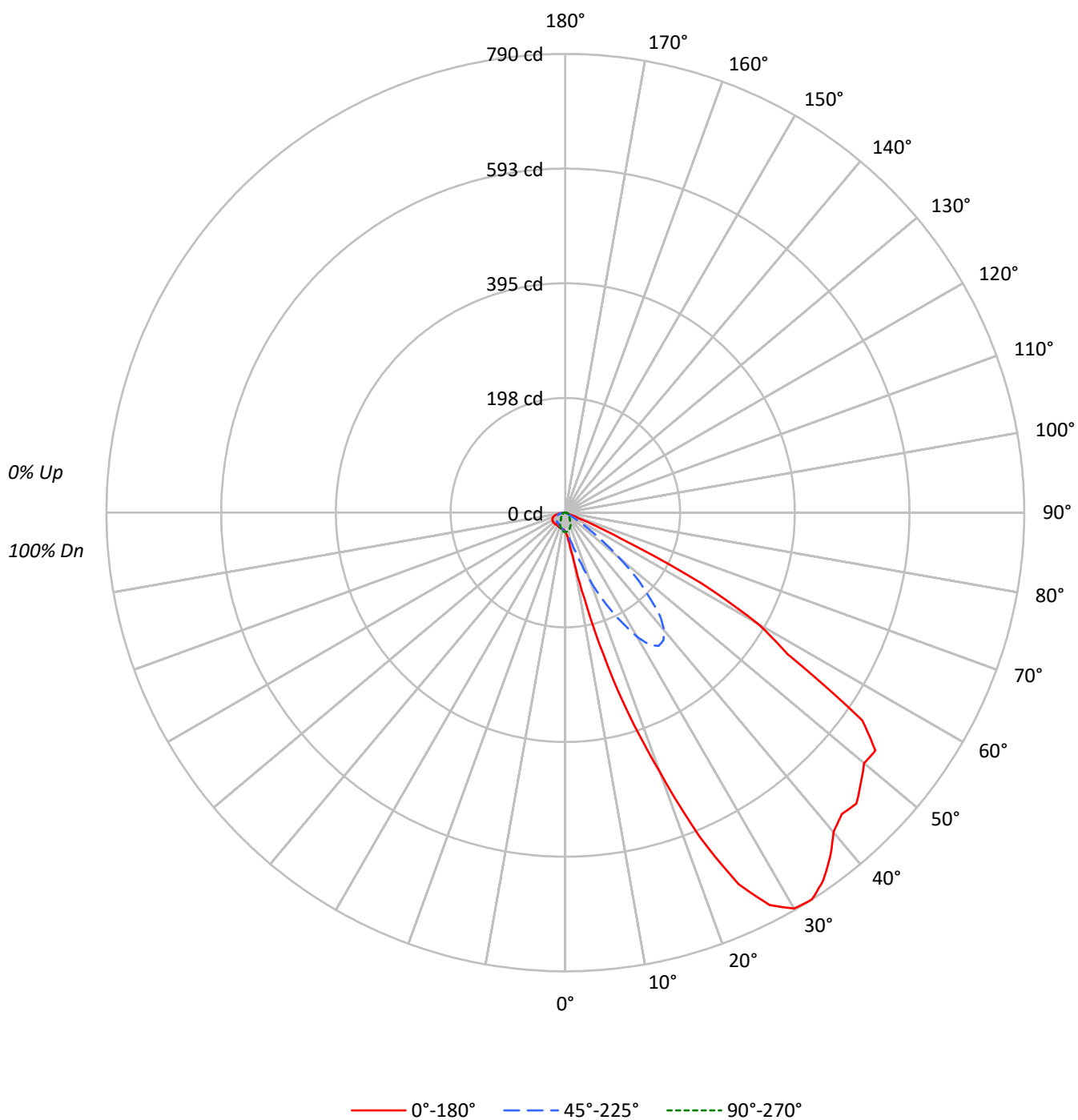
Lumens per Lamp: N/A
Luminaire Lumens: 508.0 lumens
Efficiency: N/A
Efficacy: 70.5 lumens/watt
Spacing Criteria (0/90/45): 3.76 / 0.9 / 1.95
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	5649	5649	5649	5649	5649
5°	7209	6604	5670	5273	5117
10°	14672	8394	5491	5019	5019
15°	45056	12891	5117	4885	5046
20°	87111	22543	4600	4765	5022
25°	134083	35060	4010	4599	5036
30°	156567	49000	3301	4554	5171
35°	162688	58890	2733	4520	5382
40°	161466	59443	2518	4744	5845
45°	172611	49199	2411	5139	6333
50°	179916	32473	2411	5519	7100
55°	187333	14142	2432	6065	7807
60°	132336	3238	2480	6648	8818
65°	43156	1100	2364	7131	9862
70°	1360	1108	2467	7704	11279
75°	1198	1198	2063	8052	12576
80°	893	1289	2182	8034	13389
85°	790	1778	2569	7904	13239

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 190340 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.5	0.7
10°-20°	21.6	4.2
20°-30°	72.3	14.2
30°-40°	118.7	23.4
40°-50°	132.4	26.1
50°-60°	111.5	21.9
60°-70°	37.8	7.4
70°-80°	7.4	1.5
80°-90°	2.8	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°	97.3	19.2
0°-40°	216.1	42.5
0°-60°	460.0	90.6
0°-90°	508.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	508.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	33	33	33	33	33	
5°	42	38	33	30	30	5
15°	253	72	29	27	28	80
25°	706	184	21	24	26	317
35°	774	280	13	22	26	480
45°	709	202	10	21	26	541
55°	624	47	8	20	26	508
65°	106	3	6	18	24	143
75°	2	2	3	12	19	2
85°	0	1	1	4	7	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°	32.8	32.8	32.8	32.8	32.8	32.8	32.8	32.8	32.8	32.8	32.8
2.5°	35.9	35.9	35.9	35.9	35.9	35.9	35.5	34.1	33.2	31.9	31.4
5°	41.7	41.7	41.7	41.3	41.3	40.4	38.2	35.0	32.8	31.0	30.5
7.5°	53.9	53.4	52.5	52.1	50.7	50.3	42.2	35.9	32.3	30.1	29.6
10°	83.9	83.0	81.7	76.8	72.3	69.1	48.0	36.4	31.4	29.2	28.7
12.5°	151.3	149.5	142.7	132.4	119.8	113.6	57.5	36.8	30.1	28.3	28.3
15°	252.7	250.5	237.9	223.5	200.6	188.1	72.3	36.4	28.7	26.9	27.4
17.5°	364.9	358.6	345.6	326.8	295.8	281.0	94.3	35.5	26.9	26.0	26.9
20°	475.3	473.5	452.0	426.4	388.3	368.5	123.0	34.1	25.1	24.7	26.0
22.5°	604.6	597.0	574.1	546.7	494.2	468.1	154.0	32.3	23.3	23.3	25.1
25°	705.6	696.6	678.7	646.8	597.0	569.1	184.5	30.1	21.1	22.0	24.2
27.5°	762.1	751.8	738.4	711.0	672.4	647.7	215.0	27.4	18.9	20.6	23.3
30°	787.3	784.6	774.7	754.5	719.1	697.1	246.4	24.2	16.6	19.3	22.9
32.5°	790.0	791.3	787.3	774.3	747.3	728.5	269.8	21.5	14.8	18.4	22.0
35°	773.8	778.8	781.4	776.1	758.6	743.3	280.1	18.4	13.0	17.5	21.5
37.5°	748.7	757.7	766.6	768.0	757.2	747.3	277.4	15.7	12.1	17.1	21.5
40°	718.2	726.2	744.6	756.3	752.7	745.5	264.4	13.0	11.2	16.2	21.1
42.5°	704.2	706.0	725.8	745.5	744.6	738.8	241.5	10.3	10.3	16.2	21.1
45°	708.7	700.7	713.7	736.6	735.2	727.6	202.0	8.1	9.9	15.7	21.1
47.5°	689.9	678.7	700.7	727.6	722.6	711.4	167.0	5.8	9.4	15.3	20.6
50°	671.5	669.7	686.7	700.2	693.5	687.2	121.2	4.5	9.0	14.8	20.6
52.5°	672.8	669.7	671.5	671.0	657.6	650.8	83.0	3.6	8.5	14.4	20.6
55°	623.9	614.0	604.6	607.3	608.2	603.7	47.1	3.1	8.1	14.4	20.2
57.5°	453.3	450.6	461.0	490.1	513.0	515.7	22.9	3.1	7.6	13.9	19.7
60°	384.2	382.4	382.9	391.4	403.5	395.9	9.4	3.1	7.2	13.5	19.3
62.5°	264.8	282.3	289.5	309.3	301.2	290.4	3.6	3.6	6.7	12.6	18.9
65°	105.9	105.5	115.4	124.8	122.1	114.0	2.7	3.1	5.8	11.7	17.5
67.5°	24.7	22.4	19.3	16.6	13.9	11.2	2.7	3.1	5.4	10.8	16.6
70°	2.7	2.7	2.7	2.7	2.7	2.2	2.2	3.1	4.9	9.9	15.3
72.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.7	4.0	8.5	13.9
75°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.2	3.1	7.2	12.1
77.5°	1.3	1.3	1.3	1.8	1.3	1.8	1.8	2.2	2.7	5.8	10.3
80°	0.9	0.9	1.3	1.3	1.3	1.3	1.3	1.8	2.2	4.9	8.1
82.5°	0.9	0.9	0.9	0.9	0.9	0.9	1.3	1.3	1.8	3.6	5.8
85°	0.4	0.4	0.4	0.4	0.4	0.9	0.9	1.3	1.3	2.7	4.0
87.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.9	0.9	1.3	1.3	1.8
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°	32.8	32.8
2.5°	31.0	31.0
5°	30.1	29.6
7.5°	29.2	29.2
10°	28.7	28.7
12.5°	28.3	28.7
15°	28.3	28.3
17.5°	27.4	27.8
20°	26.9	27.4
22.5°	26.5	26.9
25°	26.0	26.5
27.5°	25.6	26.0
30°	25.1	26.0
32.5°	24.7	25.6
35°	24.7	25.6
37.5°	24.7	26.0
40°	24.7	26.0
42.5°	24.7	26.0
45°	24.7	26.0
47.5°	24.7	26.0
50°	24.7	26.5
52.5°	24.7	26.5
55°	24.7	26.0
57.5°	24.2	26.0
60°	24.2	25.6
62.5°	23.8	25.1
65°	22.9	24.2
67.5°	22.0	23.8
70°	20.6	22.4
72.5°	19.3	20.6
75°	17.5	18.9
77.5°	15.3	16.2
80°	12.1	13.5
82.5°	9.4	10.3
85°	6.3	6.7
87.5°	2.7	3.1
90°	0.0	0.0

(END OF REPORT)