

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: P1316886

Luminaire Tested: P3SQAS05R559830DE010 E3SQCA451MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1316886
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: P3SQAS05R559830DE010 E3SQCA451MW
Description: 3in Adjustable LED luminaire with, R55 optic, 3000K CCT AND, 98CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

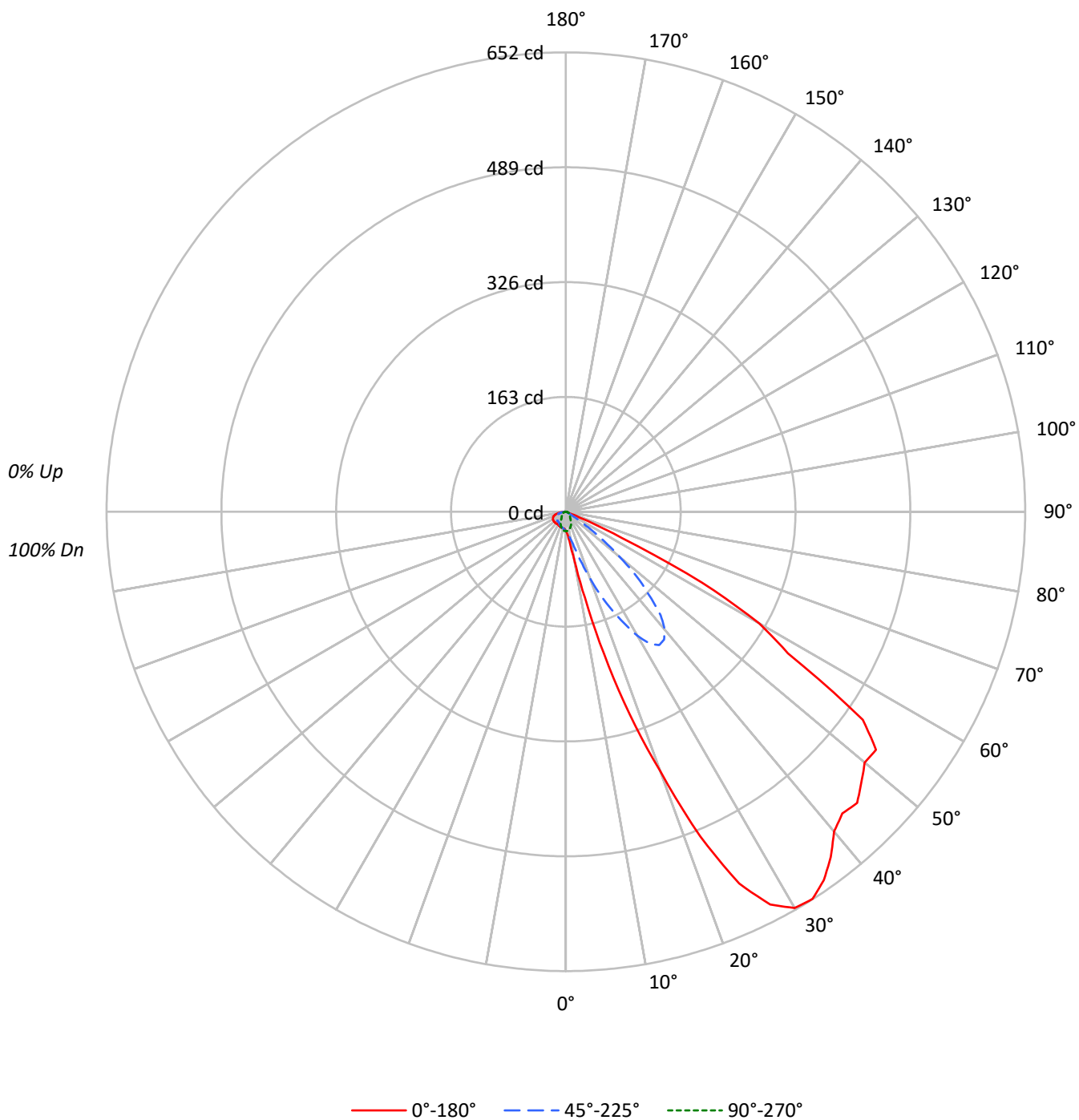
Lumens per Lamp: N/A
Luminaire Lumens: 419.0 lumens
Efficiency: N/A
Efficacy: 58.2 lumens/watt
Spacing Criteria (0/90/45): 3.76 / 0.91 / 1.95
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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°	4650	4650	4650	4650	4650
5°	5947	5446	4668	4357	4218
10°	12102	6925	4529	4145	4145
15°	37157	10627	4226	4030	4154
20°	71862	18584	3794	3940	4142
25°	110596	28922	3306	3801	4143
30°	129143	40409	2724	3759	4276
35°	134178	48567	2250	3742	4436
40°	133161	49033	2091	3912	4834
45°	142385	40577	1973	4238	5237
50°	148380	26793	1983	4555	5841
55°	154514	11680	2012	5014	6456
60°	109155	2687	2032	5477	7268
65°	35617	897	1956	5868	8150
70°	1108	957	2065	6345	9316
75°	998	998	1730	6654	10314
80°	694	1091	1884	6645	11009
85°	790	1383	2174	6521	11066

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 156985 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.9	0.7
10°-20°	17.8	4.2
20°-30°	59.6	14.2
30°-40°	97.9	23.4
40°-50°	109.2	26.1
50°-60°	92.0	21.9
60°-70°	31.2	7.4
70°-80°	6.1	1.5
80°-90°	2.3	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°	80.3	19.2
0°-40°	178.2	42.5
0°-60°	379.4	90.6
0°-90°	419.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	419.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	27	27	27	27	27	
5°	34	32	27	25	24	4
15°	208	60	24	23	23	66
25°	582	152	17	20	22	262
35°	638	231	11	18	21	396
45°	585	167	8	17	22	446
55°	515	39	7	17	22	419
65°	87	2	5	14	20	118
75°	2	2	3	10	16	2
85°	0	1	1	3	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°	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0
2.5°	29.6	29.6	29.6	29.6	29.6	29.6	29.2	28.1	27.4	26.3	25.9
5°	34.4	34.4	34.4	34.1	34.1	33.3	31.5	28.9	27.0	25.5	25.2
7.5°	44.4	44.1	43.3	42.9	41.8	41.5	34.8	29.6	26.7	24.8	24.4
10°	69.2	68.5	67.4	63.3	59.6	57.0	39.6	30.0	25.9	24.1	23.7
12.5°	124.8	123.3	117.7	109.2	98.8	93.7	47.4	30.4	24.8	23.3	23.3
15°	208.4	206.6	196.2	184.4	165.5	155.1	59.6	30.0	23.7	22.2	22.6
17.5°	301.0	295.8	285.1	269.5	244.0	231.8	77.7	29.2	22.2	21.5	22.2
20°	392.1	390.6	372.8	351.7	320.2	303.9	101.4	28.1	20.7	20.4	21.5
22.5°	498.7	492.4	473.5	450.9	407.6	386.1	127.0	26.7	19.3	19.3	20.7
25°	582.0	574.6	559.8	533.5	492.4	469.4	152.2	24.8	17.4	18.1	20.0
27.5°	628.6	620.1	609.0	586.4	554.6	534.2	177.3	22.6	15.5	17.0	19.3
30°	649.4	647.1	639.0	622.3	593.1	574.9	203.2	20.0	13.7	15.9	18.9
32.5°	651.6	652.7	649.4	638.6	616.4	600.9	222.5	17.8	12.2	15.2	18.1
35°	638.2	642.3	644.5	640.1	625.7	613.1	231.0	15.2	10.7	14.4	17.8
37.5°	617.5	624.9	632.3	633.4	624.5	616.4	228.8	13.0	10.0	14.1	17.8
40°	592.3	599.0	614.2	623.8	620.8	614.9	218.1	10.7	9.3	13.3	17.4
42.5°	580.9	582.3	598.6	614.9	614.2	609.4	199.2	8.5	8.5	13.3	17.4
45°	584.6	577.9	588.6	607.5	606.4	600.1	166.6	6.7	8.1	13.0	17.4
47.5°	569.0	559.8	577.9	600.1	596.0	586.8	137.7	4.8	7.8	12.6	17.0
50°	553.8	552.4	566.4	577.5	572.0	566.8	100.0	3.7	7.4	12.2	17.0
52.5°	554.9	552.4	553.8	553.5	542.4	536.8	68.5	3.0	7.0	11.8	17.0
55°	514.6	506.4	498.7	500.9	501.6	497.9	38.9	2.6	6.7	11.8	16.7
57.5°	373.9	371.7	380.2	404.3	423.2	425.4	18.9	2.6	6.3	11.5	16.3
60°	316.9	315.4	315.8	322.8	332.8	326.5	7.8	2.6	5.9	11.1	15.9
62.5°	218.4	232.9	238.8	255.1	248.4	239.5	3.0	3.0	5.6	10.4	15.5
65°	87.4	87.0	95.1	102.9	100.7	94.0	2.2	2.6	4.8	9.6	14.4
67.5°	20.4	18.5	15.9	13.7	11.5	9.3	2.2	2.6	4.4	8.9	13.7
70°	2.2	2.2	2.2	2.2	2.2	1.9	1.9	2.6	4.1	8.1	12.6
72.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.2	3.3	7.0	11.5
75°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.9	2.6	5.9	10.0
77.5°	1.1	1.1	1.1	1.5	1.1	1.5	1.5	1.9	2.2	4.8	8.5
80°	0.7	0.7	1.1	1.1	1.1	1.1	1.1	1.5	1.9	4.1	6.7
82.5°	0.7	0.7	0.7	0.7	0.7	0.7	1.1	1.1	1.5	3.0	4.8
85°	0.4	0.4	0.4	0.4	0.4	0.7	0.7	1.1	1.1	2.2	3.3
87.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.7	0.7	1.1	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°	27.0	27.0
2.5°	25.5	25.5
5°	24.8	24.4
7.5°	24.1	24.1
10°	23.7	23.7
12.5°	23.3	23.7
15°	23.3	23.3
17.5°	22.6	23.0
20°	22.2	22.6
22.5°	21.8	22.2
25°	21.5	21.8
27.5°	21.1	21.5
30°	20.7	21.5
32.5°	20.4	21.1
35°	20.4	21.1
37.5°	20.4	21.5
40°	20.4	21.5
42.5°	20.4	21.5
45°	20.4	21.5
47.5°	20.4	21.5
50°	20.4	21.8
52.5°	20.4	21.8
55°	20.4	21.5
57.5°	20.0	21.5
60°	20.0	21.1
62.5°	19.6	20.7
65°	18.9	20.0
67.5°	18.1	19.6
70°	17.0	18.5
72.5°	15.9	17.0
75°	14.4	15.5
77.5°	12.6	13.3
80°	10.0	11.1
82.5°	7.8	8.5
85°	5.2	5.6
87.5°	2.2	2.6
90°	0.0	0.0

(END OF REPORT)