

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: P1317750

Luminaire Tested: P3SQAS05R509835DE010 E3SQCA301MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1317750
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-65)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS05R509835DE010 E3SQCA301MW
Description: 3in Adjustable LED luminaire with, R50 optic, 3500K CCT AND, 98CRI , E3SQCA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

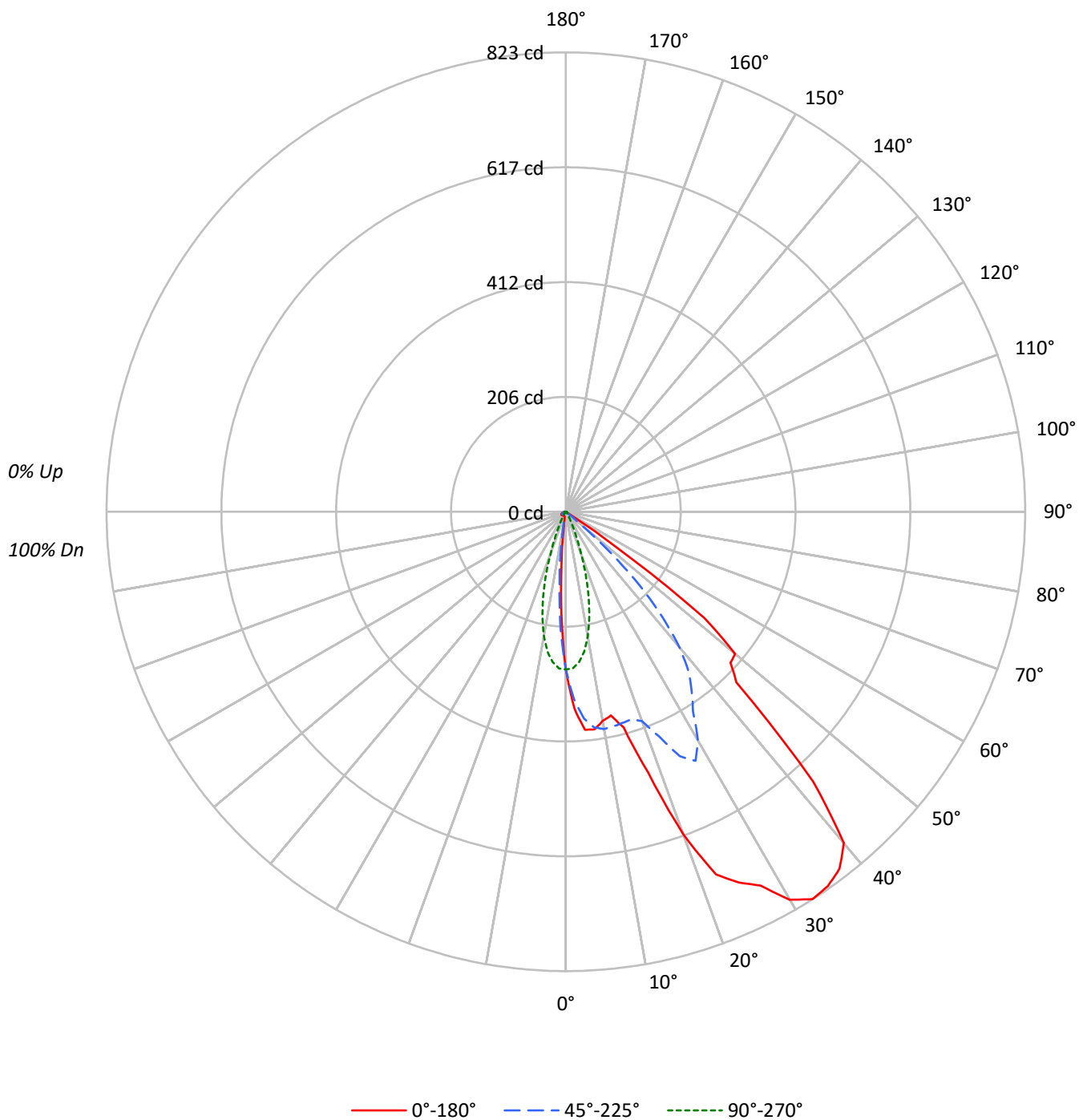
Lumens per Lamp: N/A
Luminaire Lumens: 439.0 lumens
Efficiency: N/A
Efficacy: 61.0 lumens/watt
Spacing Criteria (0/90/45): 1.8 / 0.54 / 1.2
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	112	109	106	103	110	107	104	101	102	100	98	99	97	95	95	94	92	91		
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81		
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73		
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65		
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58		
6	79	68	61	56	78	68	61	55	66	60	55	64	59	55	63	58	54	53		
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47		
8	69	58	50	45	68	57	50	45	56	50	45	55	49	45	54	49	45	43		
9	65	53	46	41	64	53	46	41	52	46	41	51	45	41	50	45	41	39		
10	61	50	43	38	60	49	42	38	48	42	38	47	42	37	46	41	37	36		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	48601	48601	48601	48601	48601
5°	67769	64294	46730	22457	14574
10°	66524	69095	39488	4739	2029
15°	71355	69839	27921	1658	1587
20°	112659	73127	14735	1411	1485
25°	139233	91840	5872	1330	1463
30°	159610	94183	2386	1313	1531
35°	172086	82668	1051	1388	1703
40°	174191	71178	787	1574	1911
45°	105291	46130	755	1705	2168
50°	106074	7984	831	1956	2492
55°	31347	450	931	2192	2792
60°	517	517	930	2411	3066
65°	489	489	937	2527	3301
70°	604	604	957	2719	3676
75°	532	532	998	2861	3859
80°	397	793	1190	2678	4265
85°	790	1581	1581	2964	3754

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°

Vertical Angle: 45°

Luminance: 120245 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.8	5.2
10°-20°	56.7	12.9
20°-30°	106.2	24.2
30°-40°	126.9	28.9
40°-50°	91.0	20.7
50°-60°	28.0	6.4
60°-70°	3.7	0.8
70°-80°	2.7	0.6
80°-90°	1.1	0.3
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°	185.7	42.3
0°-40°	312.6	71.2
0°-60°	431.6	98.3
0°-90°	439.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	439.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	282	282	282	282	282	
5°	392	372	270	130	84	36
15°	400	392	157	9	9	128
25°	733	483	31	7	8	338
35°	818	393	5	7	8	508
45°	432	189	3	7	9	397
55°	104	2	3	7	9	134
65°	1	1	2	6	8	1
75°	1	1	2	4	6	1
85°	0	1	1	2	2	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	282.2	282.2	282.2	282.2	282.2	282.2	282.2	282.2	282.2	282.2	282.2
2.5°	353.0	353.8	354.9	351.8	349.9	348.4	345.6	344.9	338.3	335.6	332.9
5°	392.0	391.3	392.0	390.9	390.1	387.8	385.5	381.6	377.4	371.9	365.8
7.5°	393.2	392.4	394.0	394.0	395.5	395.5	395.5	395.9	393.6	389.7	384.3
10°	380.4	380.4	382.0	381.2	383.9	385.1	387.8	392.4	394.7	395.1	393.6
12.5°	373.9	373.9	374.3	372.7	373.5	374.6	377.7	383.1	388.6	394.0	397.1
15°	400.2	400.9	395.5	387.8	382.0	375.8	373.9	377.4	383.1	391.7	398.6
17.5°	489.5	490.6	484.8	466.3	448.5	423.0	400.2	388.9	382.8	389.7	399.0
20°	614.7	610.5	600.4	580.7	554.8	515.4	479.8	443.9	409.4	399.0	402.1
22.5°	703.3	701.7	693.6	671.6	649.2	612.4	567.2	516.9	467.0	435.3	418.7
25°	732.7	731.5	724.2	711.0	698.6	670.8	630.2	579.6	527.4	483.3	441.5
27.5°	754.7	753.2	741.6	726.9	714.1	685.9	648.8	610.5	562.5	503.0	438.8
30°	802.6	798.4	782.2	755.9	731.5	692.5	651.5	603.9	539.0	473.6	411.0
32.5°	822.7	820.4	806.5	785.2	758.6	707.5	645.3	565.6	480.2	423.7	378.1
35°	818.5	815.0	800.7	776.4	743.9	694.8	611.6	502.2	432.6	393.2	341.8
37.5°	805.7	800.7	783.7	755.1	715.7	651.5	542.8	450.8	406.0	361.5	292.3
40°	774.8	766.7	747.0	717.2	677.8	593.5	480.2	419.9	378.1	316.6	237.0
42.5°	656.5	652.2	661.9	656.9	622.1	522.7	435.7	391.7	334.0	255.9	171.7
45°	432.3	439.6	457.0	486.8	493.7	449.7	399.4	345.3	274.9	189.4	99.0
47.5°	400.2	398.6	402.9	408.7	409.8	391.3	345.6	285.3	204.1	108.3	27.5
50°	395.9	393.6	390.1	383.1	368.5	332.5	280.7	208.0	117.9	29.8	1.9
52.5°	312.8	310.5	310.5	300.4	281.5	246.7	193.7	114.4	32.9	1.9	1.5
55°	104.4	111.3	110.2	109.8	118.3	109.0	83.5	29.4	2.7	1.5	1.5
57.5°	1.9	1.9	1.9	3.5	5.4	7.7	4.6	2.3	1.5	1.5	1.5
60°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
62.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
65°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.5
67.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
70°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
72.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.2	1.2	1.2
75°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.2
77.5°	0.4	0.4	0.4	0.4	0.8	0.8	0.8	0.8	0.8	0.8	0.8
80°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8	0.8	0.8	0.8
82.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8	0.8	0.8
85°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8	0.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.4
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):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	282.2	282.2	282.2	282.2	282.2	282.2	282.2	282.2
2.5°	326.7	321.3	310.9	281.1	248.2	210.7	185.2	182.1
5°	356.1	348.0	331.0	270.3	195.2	129.9	96.7	84.3
7.5°	375.4	364.6	343.7	252.5	142.3	68.4	36.7	29.4
10°	387.0	377.0	350.3	225.8	90.5	27.1	12.4	11.6
12.5°	393.2	383.5	352.6	193.7	51.0	12.4	9.7	9.7
15°	397.5	387.0	349.1	156.6	25.5	9.3	8.9	8.9
17.5°	399.4	386.6	339.1	117.9	13.5	8.5	8.5	8.5
20°	400.5	382.4	320.5	80.4	9.3	7.7	8.1	8.1
22.5°	401.7	371.9	296.2	51.0	7.3	7.3	7.7	7.7
25°	399.4	353.8	261.7	30.9	6.6	7.0	7.3	7.7
27.5°	382.8	326.3	220.0	18.9	5.8	6.6	7.3	7.7
30°	354.2	286.1	171.7	12.0	5.4	6.6	7.3	7.7
32.5°	317.0	240.1	122.6	7.3	5.4	6.6	7.3	7.7
35°	267.2	183.6	79.6	5.0	5.4	6.6	7.7	8.1
37.5°	211.1	128.4	42.9	3.9	5.4	6.6	7.7	8.1
40°	151.9	76.9	15.5	3.5	5.0	7.0	8.1	8.5
42.5°	88.9	28.6	2.7	3.1	5.0	7.0	8.1	8.5
45°	25.5	3.1	1.5	3.1	5.0	7.0	8.5	8.9
47.5°	1.9	1.2	1.5	3.1	5.0	7.0	8.5	9.3
50°	1.2	1.2	1.2	3.1	5.0	7.3	8.9	9.3
52.5°	1.5	1.5	1.5	3.1	5.0	7.3	8.9	9.3
55°	1.5	1.5	1.5	3.1	5.0	7.3	8.9	9.3
57.5°	1.5	1.5	1.5	3.1	5.0	7.0	8.9	9.3
60°	1.5	1.5	1.5	2.7	4.6	7.0	8.5	8.9
62.5°	1.5	1.5	1.5	2.7	4.6	6.6	8.5	8.5
65°	1.5	1.5	1.5	2.3	4.3	6.2	7.7	8.1
67.5°	1.5	1.5	1.5	2.3	3.9	5.8	7.3	7.7
70°	1.2	1.5	1.5	1.9	3.5	5.4	7.0	7.3
72.5°	1.2	1.2	1.5	1.9	3.1	4.6	6.2	6.6
75°	1.2	1.2	1.2	1.5	2.7	4.3	5.4	5.8
77.5°	1.2	1.2	1.2	1.5	2.3	3.5	5.0	5.0
80°	0.8	1.2	1.2	1.2	1.9	2.7	3.9	4.3
82.5°	0.8	0.8	0.8	1.2	1.5	2.3	3.1	3.1
85°	0.8	0.8	0.8	0.8	1.2	1.5	1.9	1.9
87.5°	0.4	0.8	0.8	0.8	0.8	0.8	0.8	0.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)