

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: P1312772

Luminaire Tested: P3SQAS20R409727D010 E3SQCA301MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1312772
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-64)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS20R409727D010 E3SQCA301MW
Description: 3in Adjustable LED luminaire with, R40 optic, 2700K CCT AND, 97CRI , E3SQCA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

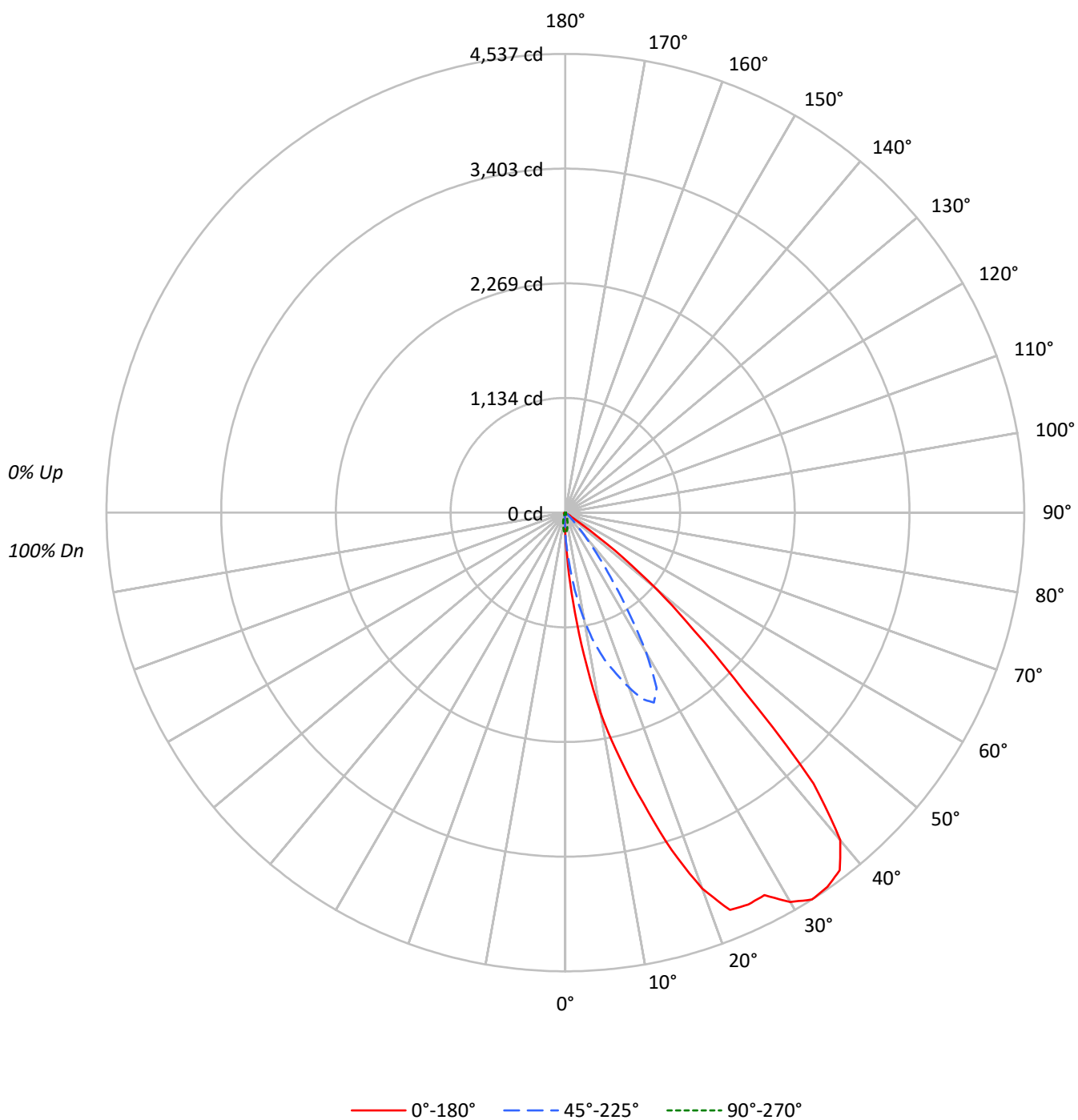
Lumens per Lamp: N/A
Luminaire Lumens: 1673.9 lumens
Efficiency: N/A
Efficacy: 58.1 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.42 / 1.24
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 28.8
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	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91		
2	105	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82		
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	74		
4	92	83	77	71	90	82	76	71	80	74	70	78	73	69	76	72	68	67		
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	60		
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54		
7	75	64	57	52	74	63	56	52	62	56	51	61	55	51	59	54	51	49		
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44		
9	66	54	47	42	65	54	47	42	53	46	42	52	46	42	51	46	42	40		
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	34117	34117	34117	34117	34117
5°	153846	98075	30583	11739	8558
10°	352837	189534	21528	4215	3218
15°	529492	268909	13372	2264	2015
20°	725020	337099	7771	1301	1558
25°	812744	393868	4029	1083	1349
30°	884037	317946	1690	835	1412
35°	950097	162709	589	1198	1787
40°	950429	64883	315	1281	2226
45°	606829	21701	682	2070	3093
50°	315006	2653	1125	2653	3778
55°	27174	420	1261	3393	4684
60°	964	482	1447	3892	5373
65°	1141	571	2323	4034	5746
70°	705	705	2870	4280	5690
75°	932	932	2795	4724	6588
80°	1389	1389	4166	4166	5653
85°	0	2766	8299	5533	5533

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 606829 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.6	2.3
10°-20°	226.6	13.5
20°-30°	496.2	29.6
30°-40°	565.3	33.8
40°-50°	298.3	17.8
50°-60°	35.2	2.1
60°-70°	6.3	0.4
70°-80°	5.2	0.3
80°-90°	2.3	0.1
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°	761.4	45.5
0°-40°	1326.7	79.3
0°-60°	1660.1	99.2
0°-90°	1673.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1673.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	198	198	198	198	198	
5°	890	567	177	68	50	120
15°	2970	1508	75	13	11	875
25°	4277	2073	21	6	7	1971
35°	4519	774	3	6	8	2801
45°	2492	89	3	8	13	2009
55°	90	1	4	11	16	281
65°	3	1	6	10	14	3
75°	1	1	4	7	10	1
85°	0	1	4	3	3	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	67.5°
0°	198.1	198.1	198.1	198.1	198.1	198.1	198.1	198.1	198.1	198.1	198.1
2.5°	441.4	441.4	440.0	427.3	425.9	424.5	401.8	396.2	369.3	350.9	267.4
5°	889.9	870.1	868.7	846.1	807.9	756.9	724.4	672.0	621.1	567.3	329.7
7.5°	1417.7	1434.6	1388.0	1363.9	1279.0	1218.2	1124.8	1042.7	928.1	820.6	380.6
10°	2017.6	1987.8	1941.2	1894.5	1802.5	1693.6	1554.9	1409.2	1243.6	1083.8	408.9
12.5°	2485.9	2447.7	2419.4	2355.7	2265.2	2125.1	1959.5	1764.3	1545.0	1314.4	407.5
15°	2969.7	2931.5	2867.9	2811.3	2676.9	2519.8	2340.1	2082.6	1813.8	1508.2	377.8
17.5°	3501.7	3452.2	3381.5	3295.2	3165.0	2991.0	2763.2	2449.1	2068.5	1666.7	324.0
20°	3955.9	3926.2	3855.4	3753.6	3626.2	3456.4	3193.3	2845.2	2381.2	1839.3	257.5
22.5°	4253.0	4226.1	4178.0	4088.9	3992.7	3811.6	3571.0	3189.0	2642.9	1996.3	195.2
25°	4277.0	4265.7	4253.0	4223.3	4165.3	4036.5	3801.7	3389.9	2805.6	2072.7	144.3
27.5°	4264.3	4260.1	4257.2	4241.7	4203.5	4076.1	3835.6	3419.7	2784.4	1953.9	106.1
30°	4445.4	4432.7	4425.6	4374.7	4274.2	4077.6	3763.5	3259.8	2474.5	1598.8	76.4
32.5°	4537.4	4534.5	4527.5	4478.0	4336.5	4080.4	3641.8	2873.5	1962.4	1154.5	52.3
35°	4519.0	4504.8	4479.4	4387.4	4190.7	3869.6	3248.5	2294.9	1416.2	773.9	34.0
37.5°	4456.7	4424.2	4374.7	4209.1	3947.4	3508.8	2634.4	1689.3	963.5	500.9	19.8
40°	4227.5	4183.7	4105.9	3903.5	3559.7	2891.9	1948.2	1141.8	632.4	288.6	5.7
42.5°	3634.7	3578.1	3521.5	3295.2	2901.8	2156.2	1281.8	706.0	360.8	158.5	1.4
45°	2491.5	2420.8	2343.0	2178.8	1863.3	1305.9	762.6	397.6	186.8	89.1	1.4
47.5°	1730.3	1697.8	1562.0	1352.6	1037.1	691.9	394.7	195.2	99.0	41.0	1.4
50°	1175.7	1138.9	980.5	778.2	551.8	331.1	181.1	97.6	43.9	9.9	1.4
52.5°	616.9	571.6	471.1	359.4	223.5	138.7	79.2	42.4	12.7	1.4	1.4
55°	90.5	83.5	67.9	55.2	49.5	38.2	22.6	9.9	1.4	1.4	2.8
57.5°	2.8	2.8	2.8	2.8	4.2	4.2	2.8	1.4	1.4	1.4	2.8
60°	2.8	2.8	2.8	2.8	2.8	1.4	1.4	1.4	1.4	1.4	2.8
62.5°	2.8	2.8	2.8	2.8	2.8	1.4	1.4	1.4	1.4	1.4	2.8
65°	2.8	2.8	2.8	2.8	2.8	1.4	1.4	1.4	1.4	1.4	2.8
67.5°	2.8	2.8	2.8	2.8	1.4	1.4	1.4	1.4	1.4	2.8	4.2
70°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	4.2
72.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.8	4.2
75°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	4.2
77.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.8	4.2
80°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.8
82.5°	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4	1.4	4.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	2.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	2.8
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):

	90°	112.5°	135°	157.5°	180°
0°	198.1	198.1	198.1	198.1	198.1
2.5°	195.2	144.3	111.8	96.2	94.8
5°	176.9	103.3	67.9	52.3	49.5
7.5°	150.0	72.2	39.6	28.3	26.9
10°	123.1	49.5	24.1	19.8	18.4
12.5°	97.6	32.5	17.0	15.6	14.1
15°	75.0	21.2	12.7	11.3	11.3
17.5°	56.6	14.1	9.9	9.9	9.9
20°	42.4	9.9	7.1	8.5	8.5
22.5°	29.7	7.1	5.7	7.1	7.1
25°	21.2	5.7	5.7	7.1	7.1
27.5°	14.1	4.2	4.2	5.7	7.1
30°	8.5	2.8	4.2	5.7	7.1
32.5°	4.2	2.8	4.2	7.1	7.1
35°	2.8	4.2	5.7	7.1	8.5
37.5°	1.4	4.2	5.7	8.5	8.5
40°	1.4	4.2	5.7	8.5	9.9
42.5°	2.8	5.7	7.1	9.9	11.3
45°	2.8	5.7	8.5	11.3	12.7
47.5°	2.8	5.7	9.9	12.7	12.7
50°	4.2	7.1	9.9	12.7	14.1
52.5°	4.2	7.1	9.9	14.1	15.6
55°	4.2	7.1	11.3	14.1	15.6
57.5°	4.2	8.5	11.3	14.1	15.6
60°	4.2	7.1	11.3	14.1	15.6
62.5°	5.7	7.1	9.9	14.1	14.1
65°	5.7	7.1	9.9	14.1	14.1
67.5°	5.7	7.1	9.9	12.7	12.7
70°	5.7	7.1	8.5	11.3	11.3
72.5°	5.7	7.1	8.5	9.9	11.3
75°	4.2	5.7	7.1	8.5	9.9
77.5°	4.2	5.7	5.7	8.5	8.5
80°	4.2	4.2	4.2	5.7	5.7
82.5°	4.2	4.2	2.8	4.2	4.2
85°	4.2	2.8	2.8	2.8	2.8
87.5°	2.8	2.8	1.4	1.4	1.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)