

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: P1310577

Luminaire Tested: P3SQAS20R409040D010 E3SQCA301MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1310577
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: P3SQAS20R409040D010 E3SQCA301MW
Description: 3in Adjustable LED luminaire with, R40 optic, 4000K CCT AND, 90CRI , E3SQCA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

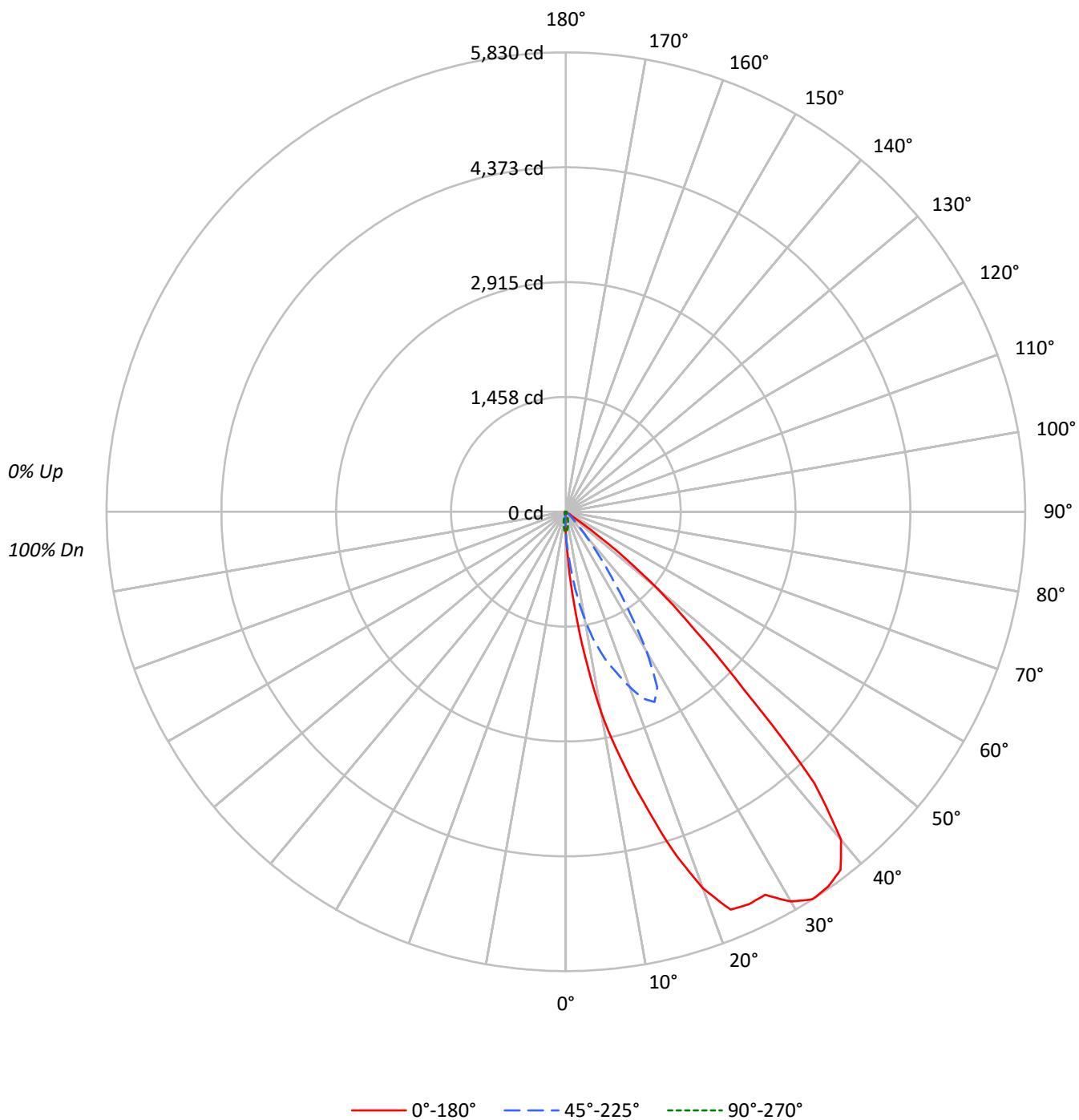
Lumens per Lamp: N/A
Luminaire Lumens: 2151.0 lumens
Efficiency: N/A
Efficacy: 74.7 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.42 / 1.24
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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°	43831	43831	43831	43831	43831
5°	197689	126030	39278	15092	10995
10°	453357	243537	27666	5404	4127
15°	680385	345542	17188	2924	2585
20°	931608	433153	9989	1668	1998
25°	1044349	506117	5188	1387	1729
30°	1135940	408530	2168	1094	1810
35°	1220830	209068	757	1535	2292
40°	1221248	83386	405	1641	2855
45°	779756	27888	877	2655	3994
50°	404763	3403	1474	3403	4876
55°	34950	540	1651	4354	6005
60°	1240	620	1894	4994	6889
65°	1467	734	2975	5175	7417
70°	906	906	3676	5489	7301
75°	1198	1198	3660	6055	8451
80°	1785	1785	5455	5455	7240
85°	0	3557	10868	7114	7114

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 779756 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.6	2.3
10°-20°	291.1	13.5
20°-30°	637.6	29.6
30°-40°	726.4	33.8
40°-50°	383.3	17.8
50°-60°	45.2	2.1
60°-70°	8.1	0.4
70°-80°	6.7	0.3
80°-90°	3.0	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°	978.3	45.5
0°-40°	1704.7	79.3
0°-60°	2133.2	99.2
0°-90°	2151.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2151.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	254	254	254	254	254	
5°	1144	729	227	87	64	154
15°	3816	1938	96	16	14	1124
25°	5496	2663	27	7	9	2532
35°	5807	994	4	7	11	3599
45°	3202	114	4	11	16	2581
55°	116	2	6	14	20	361
65°	4	2	7	13	18	3
75°	2	2	6	9	13	2
85°	0	2	6	4	4	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°	254.5	254.5	254.5	254.5	254.5	254.5	254.5	254.5	254.5	254.5	254.5
2.5°	567.2	567.2	565.4	549.0	547.2	545.4	516.3	509.0	474.5	450.9	343.6
5°	1143.5	1118.1	1116.2	1087.2	1038.1	972.6	930.8	863.5	798.1	729.0	423.6
7.5°	1821.6	1843.4	1783.4	1752.5	1643.5	1565.3	1445.3	1339.9	1192.6	1054.4	489.0
10°	2592.4	2554.3	2494.3	2434.3	2316.1	2176.1	1998.0	1810.7	1598.0	1392.6	525.4
12.5°	3194.2	3145.1	3108.8	3026.9	2910.6	2730.6	2517.9	2267.0	1985.2	1688.9	523.6
15°	3816.0	3766.9	3685.1	3612.3	3439.6	3237.8	3007.0	2676.1	2330.7	1938.0	485.4
17.5°	4499.5	4435.9	4345.0	4234.1	4066.8	3843.2	3550.5	3146.9	2657.9	2141.6	416.3
20°	5083.1	5044.9	4954.0	4823.1	4659.5	4441.3	4103.2	3656.0	3059.7	2363.4	330.9
22.5°	5464.9	5430.3	5368.5	5254.0	5130.4	4897.7	4588.6	4097.7	3396.0	2565.2	250.9
25°	5495.8	5481.2	5464.9	5426.7	5352.2	5186.7	4884.9	4355.9	3605.1	2663.4	185.4
27.5°	5479.4	5474.0	5470.3	5450.3	5401.2	5237.6	4928.6	4394.1	3577.8	2510.6	136.3
30°	5712.1	5695.8	5686.7	5621.2	5492.1	5239.4	4835.8	4188.6	3179.7	2054.3	98.2
32.5°	5830.3	5826.6	5817.6	5753.9	5572.1	5243.1	4679.5	3692.3	2521.5	1483.5	67.3
35°	5806.7	5788.5	5755.7	5637.6	5384.9	4972.2	4174.1	2948.8	1819.8	994.4	43.6
37.5°	5726.7	5684.8	5621.2	5408.5	5072.2	4508.6	3385.1	2170.7	1238.0	643.6	25.5
40°	5432.1	5375.8	5275.8	5015.8	4574.1	3716.0	2503.4	1467.1	812.6	370.9	7.3
42.5°	4670.4	4597.7	4525.0	4234.1	3728.7	2770.6	1647.1	907.2	463.6	203.6	1.8
45°	3201.5	3110.6	3010.6	2799.7	2394.3	1678.0	979.9	510.9	240.0	114.5	1.8
47.5°	2223.4	2181.6	2007.1	1738.0	1332.6	889.0	507.2	250.9	127.3	52.7	1.8
50°	1510.7	1463.5	1259.9	999.9	709.0	425.4	232.7	125.4	56.4	12.7	1.8
52.5°	792.6	734.5	605.4	461.8	287.2	178.2	101.8	54.5	16.4	1.8	1.8
55°	116.4	107.3	87.3	70.9	63.6	49.1	29.1	12.7	1.8	1.8	3.6
57.5°	3.6	3.6	3.6	3.6	5.5	5.5	3.6	1.8	1.8	1.8	3.6
60°	3.6	3.6	3.6	3.6	3.6	1.8	1.8	1.8	1.8	1.8	3.6
62.5°	3.6	3.6	3.6	3.6	3.6	1.8	1.8	1.8	1.8	1.8	3.6
65°	3.6	3.6	3.6	3.6	3.6	1.8	1.8	1.8	1.8	1.8	3.6
67.5°	3.6	3.6	3.6	3.6	1.8	1.8	1.8	1.8	1.8	3.6	5.5
70°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	5.5
72.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	3.6	5.5
75°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	5.5
77.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	3.6	5.5
80°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	3.6
82.5°	0.0	0.0	0.0	0.0	0.0	1.8	1.8	1.8	1.8	1.8	5.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8	1.8	3.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8	3.6
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°	254.5	254.5	254.5	254.5	254.5
2.5°	250.9	185.4	143.6	123.6	121.8
5°	227.2	132.7	87.3	67.3	63.6
7.5°	192.7	92.7	50.9	36.4	34.5
10°	158.2	63.6	30.9	25.5	23.6
12.5°	125.4	41.8	21.8	20.0	18.2
15°	96.4	27.3	16.4	14.5	14.5
17.5°	72.7	18.2	12.7	12.7	12.7
20°	54.5	12.7	9.1	10.9	10.9
22.5°	38.2	9.1	7.3	9.1	9.1
25°	27.3	7.3	7.3	9.1	9.1
27.5°	18.2	5.5	5.5	7.3	9.1
30°	10.9	3.6	5.5	7.3	9.1
32.5°	5.5	3.6	5.5	9.1	9.1
35°	3.6	5.5	7.3	9.1	10.9
37.5°	1.8	5.5	7.3	10.9	10.9
40°	1.8	5.5	7.3	10.9	12.7
42.5°	3.6	7.3	9.1	12.7	14.5
45°	3.6	7.3	10.9	14.5	16.4
47.5°	3.6	7.3	12.7	16.4	16.4
50°	5.5	9.1	12.7	16.4	18.2
52.5°	5.5	9.1	12.7	18.2	20.0
55°	5.5	9.1	14.5	18.2	20.0
57.5°	5.5	10.9	14.5	18.2	20.0
60°	5.5	9.1	14.5	18.2	20.0
62.5°	7.3	9.1	12.7	18.2	18.2
65°	7.3	9.1	12.7	18.2	18.2
67.5°	7.3	9.1	12.7	16.4	16.4
70°	7.3	9.1	10.9	14.5	14.5
72.5°	7.3	9.1	10.9	12.7	14.5
75°	5.5	7.3	9.1	10.9	12.7
77.5°	5.5	7.3	7.3	10.9	10.9
80°	5.5	5.5	5.5	7.3	7.3
82.5°	5.5	5.5	3.6	5.5	5.5
85°	5.5	3.6	3.6	3.6	3.6
87.5°	3.6	3.6	1.8	1.8	1.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)