

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: P1316530

Luminaire Tested: P3SQAS20R309827D010 E3SQCA301MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1316530
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-62)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS20R309827D010 E3SQCA301MW
Description: 3in Adjustable LED luminaire with, R30 optic, 2700K CCT AND, 98CRI , E3SQCA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

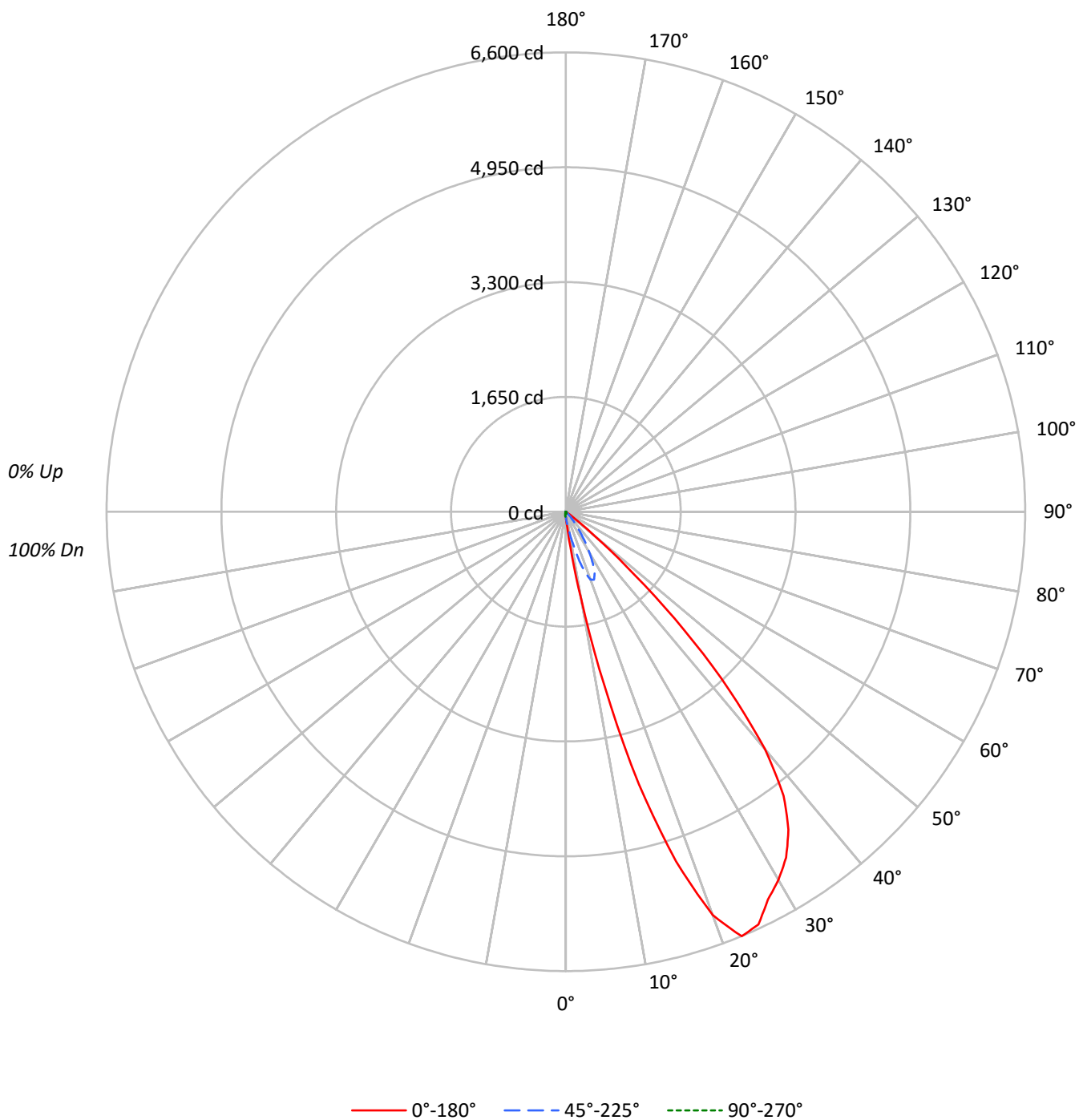
Lumens per Lamp: N/A
Luminaire Lumens: 1556.0 lumens
Efficiency: N/A
Efficacy: 56.8 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.5 / 1.28
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 27.4
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	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92		
2	106	100	95	92	103	98	94	90	95	92	88	92	89	87	89	87	85	83		
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	79	77	75		
4	93	84	77	72	91	83	77	72	80	75	71	78	74	70	76	73	69	68		
5	87	77	70	65	85	76	69	65	74	68	64	72	67	63	71	66	63	61		
6	81	71	64	58	80	70	63	58	68	62	58	67	61	57	65	61	57	55		
7	76	65	58	53	74	64	57	53	63	57	52	61	56	52	60	55	52	50		
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45		
9	67	55	48	43	65	55	48	43	53	47	43	52	47	43	52	46	43	41		
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	12727	12727	12727	12727	12727
5°	38345	25569	12050	5411	4426
10°	222044	54213	9443	2483	1749
15°	722250	122954	6597	499	250
20°	1130168	190222	4160	0	0
25°	1243401	185884	2166	0	0
30°	1214412	134016	855	0	0
35°	1172116	76235	294	0	0
40°	999575	32284	0	0	0
45°	586638	12129	341	0	341
50°	142486	2277	375	375	1152
55°	12371	0	841	1291	1711
60°	482	0	964	1481	2446
65°	571	571	1752	1752	2893
70°	705	705	2165	2165	2870
75°	0	932	2861	2861	2861
80°	0	1389	4265	2777	2777
85°	0	2766	8497	2766	2766

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 586638 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.6	0.9
10°-20°	213.9	13.7
20°-30°	543.5	34.9
30°-40°	541.7	34.8
40°-50°	219.4	14.1
50°-60°	15.2	1.0
60°-70°	3.4	0.2
70°-80°	3.4	0.2
80°-90°	2.0	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°	770.9	49.5
0°-40°	1312.6	84.4
0°-60°	1547.2	99.4
0°-90°	1556.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1556.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	74	74	74	74	74	
5°	222	148	70	31	26	51
15°	4051	690	37	3	1	1179
25°	6543	978	11	0	0	2954
35°	5575	363	1	0	0	3417
45°	2409	50	1	0	1	1838
55°	41	0	3	4	6	108
65°	1	1	4	4	7	1
75°	0	1	4	4	4	1
85°	0	1	4	1	1	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°	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9
2.5°	122.3	123.7	123.7	120.9	119.4	119.4	115.2	113.7	109.5	105.2	91.0
5°	221.8	217.5	211.9	211.9	199.1	191.9	182.0	170.6	162.1	147.9	105.2
7.5°	503.3	469.2	459.3	446.5	398.1	359.7	315.6	277.3	241.7	211.9	116.6
10°	1269.7	1202.9	1147.4	1035.1	894.3	759.3	634.1	489.1	389.6	310.0	125.1
12.5°	2557.9	2468.3	2361.7	2156.9	1893.9	1556.9	1258.3	939.8	659.7	456.4	128.0
15°	4050.8	3898.7	3732.3	3472.1	3041.3	2557.9	2019.0	1511.4	1059.3	689.6	125.1
17.5°	5267.9	5208.2	4962.2	4606.7	4079.2	3456.5	2792.5	2098.6	1428.9	902.9	116.6
20°	6166.5	6125.2	5828.1	5449.9	4855.5	4141.8	3298.6	2465.4	1686.3	1037.9	103.8
22.5°	6600.1	6593.0	6378.3	5991.6	5361.7	4552.7	3624.2	2677.3	1765.9	1056.4	86.7
25°	6543.3	6568.8	6446.6	6159.4	5555.1	4721.9	3720.9	2677.3	1707.6	978.2	72.5
27.5°	6284.5	6301.5	6224.8	6004.4	5441.3	4599.6	3585.8	2505.3	1538.4	840.3	59.7
30°	6106.7	6113.9	6018.6	5782.6	5185.4	4320.9	3267.4	2186.8	1282.5	673.9	44.1
32.5°	5890.6	5889.2	5778.3	5508.2	4849.9	3929.9	2863.6	1807.1	985.3	511.9	25.6
35°	5575.0	5539.4	5388.7	5077.3	4349.4	3403.9	2347.4	1376.3	709.5	362.6	15.6
37.5°	5141.3	5048.9	4835.6	4419.0	3647.0	2668.8	1740.3	966.8	484.8	240.3	10.0
40°	4446.1	4347.9	4057.9	3551.7	2758.3	1920.9	1173.0	629.9	305.7	143.6	5.7
42.5°	3486.3	3419.5	3028.5	2523.7	1821.4	1225.6	705.2	372.5	172.0	82.5	1.4
45°	2408.6	2321.8	2014.7	1586.8	1093.4	679.6	395.3	194.8	98.1	49.8	0.0
47.5°	1329.4	1222.8	1045.0	821.8	550.2	356.9	199.1	105.2	55.5	24.2	0.0
50°	531.8	527.5	419.4	298.6	210.4	162.1	99.5	56.9	28.4	8.5	1.4
52.5°	186.3	186.3	160.7	130.8	102.4	73.9	49.8	27.0	10.0	2.8	1.4
55°	41.2	45.5	42.7	39.8	38.4	32.7	21.3	10.0	2.8	0.0	1.4
57.5°	4.3	4.3	4.3	5.7	7.1	7.1	5.7	2.8	0.0	0.0	1.4
60°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	0.0	0.0	0.0	2.8
62.5°	1.4	1.4	1.4	1.4	1.4	0.0	0.0	0.0	1.4	1.4	2.8
65°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.8
67.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.8
70°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	4.3
72.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	4.3
75°	0.0	0.0	1.4	1.4	0.0	1.4	1.4	1.4	1.4	1.4	4.3
77.5°	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4	1.4	1.4	2.8
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	2.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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°	73.9	73.9	73.9	73.9	73.9
2.5°	73.9	58.3	48.3	42.7	41.2
5°	69.7	44.1	31.3	27.0	25.6
7.5°	62.6	32.7	21.3	17.1	15.6
10°	54.0	24.2	14.2	10.0	10.0
12.5°	45.5	18.5	8.5	4.3	2.8
15°	37.0	11.4	2.8	1.4	1.4
17.5°	28.4	7.1	0.0	0.0	0.0
20°	22.7	2.8	0.0	0.0	0.0
22.5°	17.1	1.4	0.0	0.0	0.0
25°	11.4	0.0	0.0	0.0	0.0
27.5°	7.1	0.0	0.0	0.0	0.0
30°	4.3	0.0	0.0	0.0	0.0
32.5°	1.4	0.0	0.0	0.0	0.0
35°	1.4	0.0	0.0	0.0	0.0
37.5°	0.0	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0	0.0
45°	1.4	0.0	0.0	1.4	1.4
47.5°	1.4	1.4	1.4	2.8	2.8
50°	1.4	1.4	1.4	2.8	4.3
52.5°	2.8	1.4	2.8	4.3	4.3
55°	2.8	2.8	4.3	5.7	5.7
57.5°	2.8	2.8	4.3	5.7	5.7
60°	2.8	2.8	4.3	5.7	7.1
62.5°	4.3	4.3	4.3	5.7	5.7
65°	4.3	4.3	4.3	5.7	7.1
67.5°	4.3	4.3	4.3	5.7	7.1
70°	4.3	4.3	4.3	5.7	5.7
72.5°	5.7	4.3	4.3	5.7	5.7
75°	4.3	4.3	4.3	4.3	4.3
77.5°	4.3	4.3	2.8	4.3	4.3
80°	4.3	2.8	2.8	2.8	2.8
82.5°	4.3	2.8	2.8	2.8	2.8
85°	4.3	2.8	1.4	1.4	1.4
87.5°	4.3	2.8	1.4	1.4	1.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)