

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: P1307077

Luminaire Tested: P3SQAS17R409027DE010 E3SQCA301MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1307077
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: P3SQAS17R409027DE010 E3SQCA301MW
Description: 3in Adjustable LED luminaire with, R40 optic, 2700K CCT AND, 90CRI , E3SQCA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

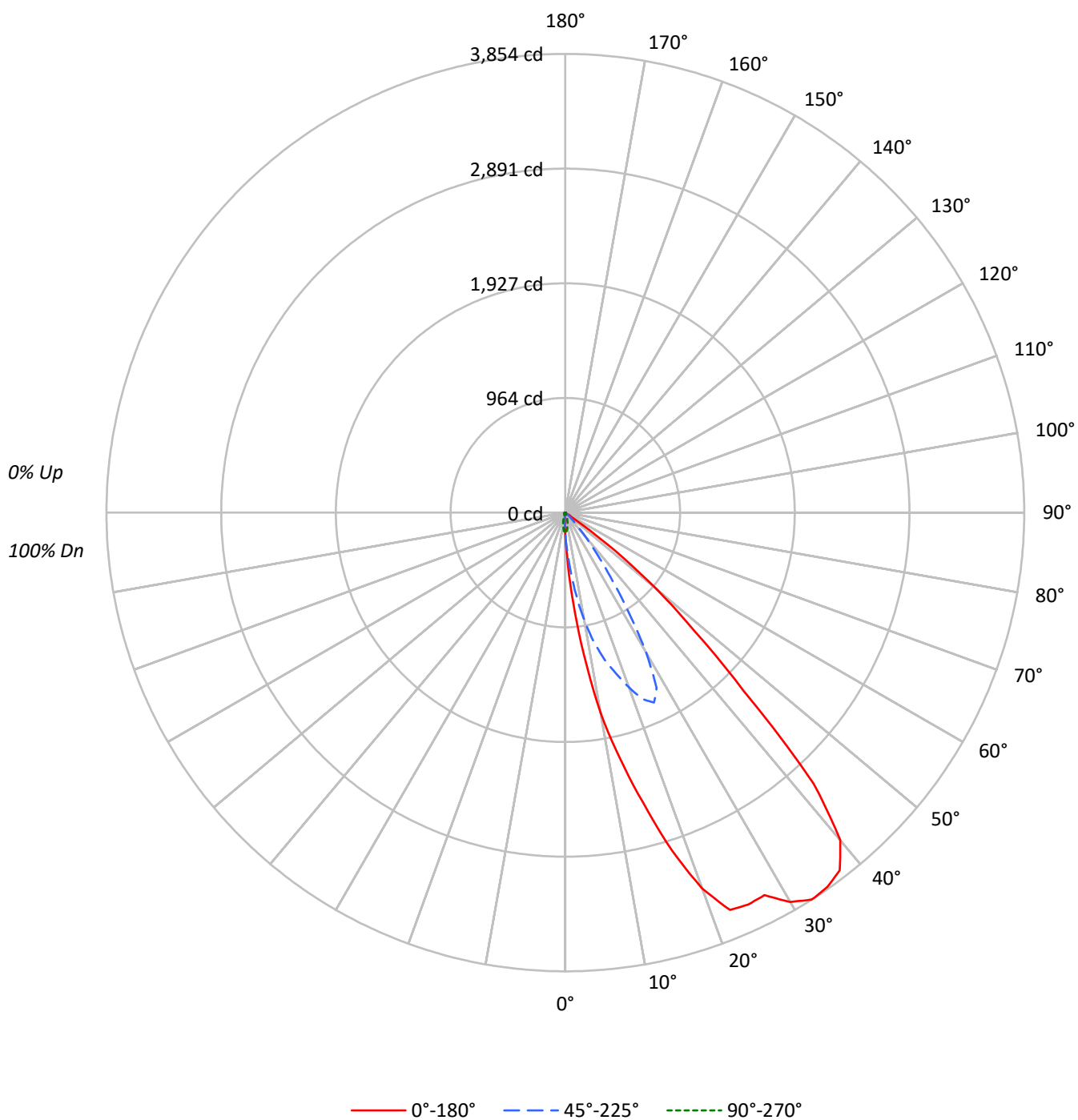
Lumens per Lamp: N/A
Luminaire Lumens: 1422.0 lumens
Efficiency: N/A
Efficacy: 67.1 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.42 / 1.24
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 21.2
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

TEST NUMBER: P1307077

CATALOG NUMBER: P3SQAS17R409027DE010 E3SQCA301MW

Luminous Intensity Polar Plot



TEST NUMBER: P1307077

CATALOG NUMBER: P3SQAS17R409027DE010 E3SQCA301MW

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	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°	28985	28985	28985	28985	28985
5°	130698	83311	25967	9975	7278
10°	299708	160994	18292	3568	2728
15°	449792	228435	11358	1926	1712
20°	615879	286350	6616	1100	1320
25°	690405	334580	3420	912	1140
30°	750956	270079	1432	716	1193
35°	807068	138215	505	1009	1514
40°	807354	55126	270	1079	1888
45°	515494	18437	585	1754	2630
50°	267583	2251	965	2251	3215
55°	23090	360	1081	2883	3963
60°	827	413	1240	3307	4547
65°	978	489	1956	3423	4890
70°	604	604	2417	3626	4834
75°	799	799	2396	3993	5590
80°	1190	1190	3570	3570	4761
85°	0	2371	7114	4742	4742

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 515494 cd/sqm

TEST NUMBER: P1307077

CATALOG NUMBER: P3SQAS17R409027DE010 E3SQCA301MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.8	2.3
10°-20°	192.5	13.5
20°-30°	421.5	29.6
30°-40°	480.2	33.8
40°-50°	253.4	17.8
50°-60°	29.9	2.1
60°-70°	5.4	0.4
70°-80°	4.4	0.3
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°	646.8	45.5
0°-40°	1127.0	79.3
0°-60°	1410.2	99.2
0°-90°	1422.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1422.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	168	168	168	168	168	
5°	756	482	150	58	42	102
15°	2523	1281	64	11	10	743
25°	3633	1761	18	5	6	1674
35°	3839	657	2	5	7	2379
45°	2116	76	2	7	11	1706
55°	77	1	4	10	13	239
65°	2	1	5	8	12	2
75°	1	1	4	6	8	1
85°	0	1	4	2	2	0
90°	0	0	0	0	0	

TEST NUMBER: P1307077

CATALOG NUMBER: P3SQAS17R409027DE010 E3SQCA301MW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	67.5°
0°	168.3	168.3	168.3	168.3	168.3	168.3	168.3	168.3	168.3	168.3	168.3
2.5°	375.0	375.0	373.8	363.0	361.8	360.6	341.3	336.5	313.7	298.1	227.1
5°	756.0	739.1	737.9	718.7	686.3	643.0	615.3	570.9	527.6	481.9	280.0
7.5°	1204.3	1218.7	1179.0	1158.6	1086.5	1034.8	955.5	885.8	788.4	697.1	323.3
10°	1713.8	1688.6	1648.9	1609.3	1531.2	1438.6	1320.8	1197.0	1056.4	920.6	347.3
12.5°	2111.6	2079.2	2055.2	2001.1	1924.2	1805.2	1664.6	1498.7	1312.4	1116.5	346.1
15°	2522.7	2490.2	2436.1	2388.1	2273.9	2140.5	1987.9	1769.1	1540.8	1281.2	320.9
17.5°	2974.6	2932.5	2872.4	2799.1	2688.5	2540.7	2347.2	2080.4	1757.1	1415.8	275.2
20°	3360.4	3335.1	3275.0	3188.5	3080.3	2936.1	2712.6	2416.9	2022.7	1562.4	218.7
22.5°	3612.8	3589.9	3549.1	3473.3	3391.6	3237.8	3033.5	2709.0	2245.1	1695.8	165.9
25°	3633.2	3623.6	3612.8	3587.5	3538.2	3428.9	3229.4	2879.6	2383.3	1760.7	122.6
27.5°	3622.4	3618.8	3616.4	3603.1	3570.7	3462.5	3258.2	2904.9	2365.2	1659.8	90.1
30°	3776.2	3765.4	3759.4	3716.1	3630.8	3463.7	3196.9	2769.1	2102.0	1358.1	64.9
32.5°	3854.3	3851.9	3845.9	3803.9	3683.7	3466.1	3093.6	2441.0	1667.0	980.7	44.5
35°	3838.7	3826.7	3805.1	3726.9	3559.9	3287.1	2759.4	1949.4	1203.1	657.4	28.8
37.5°	3785.8	3758.2	3716.1	3575.5	3353.2	2980.6	2237.8	1435.0	818.5	425.5	16.8
40°	3591.1	3553.9	3487.8	3315.9	3023.9	2456.6	1654.9	969.9	537.2	245.2	4.8
42.5°	3087.6	3039.5	2991.4	2799.1	2465.0	1831.6	1088.9	599.7	306.5	134.6	1.2
45°	2116.5	2056.4	1990.3	1850.8	1582.8	1109.3	647.8	337.7	158.6	75.7	1.2
47.5°	1469.9	1442.2	1326.8	1149.0	881.0	587.7	335.3	165.9	84.1	34.9	1.2
50°	998.7	967.5	832.9	661.0	468.7	281.2	153.8	82.9	37.3	8.4	1.2
52.5°	524.0	485.5	400.2	305.3	189.9	117.8	67.3	36.1	10.8	1.2	1.2
55°	76.9	70.9	57.7	46.9	42.1	32.4	19.2	8.4	1.2	1.2	2.4
57.5°	2.4	2.4	2.4	2.4	3.6	3.6	2.4	1.2	1.2	1.2	2.4
60°	2.4	2.4	2.4	2.4	2.4	1.2	1.2	1.2	1.2	1.2	2.4
62.5°	2.4	2.4	2.4	2.4	2.4	1.2	1.2	1.2	1.2	1.2	2.4
65°	2.4	2.4	2.4	2.4	2.4	1.2	1.2	1.2	1.2	1.2	2.4
67.5°	2.4	2.4	2.4	2.4	1.2	1.2	1.2	1.2	1.2	2.4	3.6
70°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	3.6
72.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.4	3.6
75°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	3.6
77.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.4	3.6
80°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.4
82.5°	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2	1.2	3.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	2.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	2.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1307077

CATALOG NUMBER: P3SQAS17R409027DE010 E3SQCA301MW

CANDELA DISTRIBUTION (continued):

	90°	112.5°	135°	157.5°	180°
0°	168.3	168.3	168.3	168.3	168.3
2.5°	165.9	122.6	94.9	81.7	80.5
5°	150.2	87.7	57.7	44.5	42.1
7.5°	127.4	61.3	33.7	24.0	22.8
10°	104.6	42.1	20.4	16.8	15.6
12.5°	82.9	27.6	14.4	13.2	12.0
15°	63.7	18.0	10.8	9.6	9.6
17.5°	48.1	12.0	8.4	8.4	8.4
20°	36.1	8.4	6.0	7.2	7.2
22.5°	25.2	6.0	4.8	6.0	6.0
25°	18.0	4.8	4.8	6.0	6.0
27.5°	12.0	3.6	3.6	4.8	6.0
30°	7.2	2.4	3.6	4.8	6.0
32.5°	3.6	2.4	3.6	6.0	6.0
35°	2.4	3.6	4.8	6.0	7.2
37.5°	1.2	3.6	4.8	7.2	7.2
40°	1.2	3.6	4.8	7.2	8.4
42.5°	2.4	4.8	6.0	8.4	9.6
45°	2.4	4.8	7.2	9.6	10.8
47.5°	2.4	4.8	8.4	10.8	10.8
50°	3.6	6.0	8.4	10.8	12.0
52.5°	3.6	6.0	8.4	12.0	13.2
55°	3.6	6.0	9.6	12.0	13.2
57.5°	3.6	7.2	9.6	12.0	13.2
60°	3.6	6.0	9.6	12.0	13.2
62.5°	4.8	6.0	8.4	12.0	12.0
65°	4.8	6.0	8.4	12.0	12.0
67.5°	4.8	6.0	8.4	10.8	10.8
70°	4.8	6.0	7.2	9.6	9.6
72.5°	4.8	6.0	7.2	8.4	9.6
75°	3.6	4.8	6.0	7.2	8.4
77.5°	3.6	4.8	4.8	7.2	7.2
80°	3.6	3.6	3.6	4.8	4.8
82.5°	3.6	3.6	2.4	3.6	3.6
85°	3.6	2.4	2.4	2.4	2.4
87.5°	2.4	2.4	1.2	1.2	1.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)