

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: P1318316

Luminaire Tested: P3SQAS20R409835D010 E3SQCA301MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1318316
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: P3SQAS20R409835D010 E3SQCA301MW
Description: 3in Adjustable LED luminaire with, R40 optic, 3500K CCT AND, 98CRI , E3SQCA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

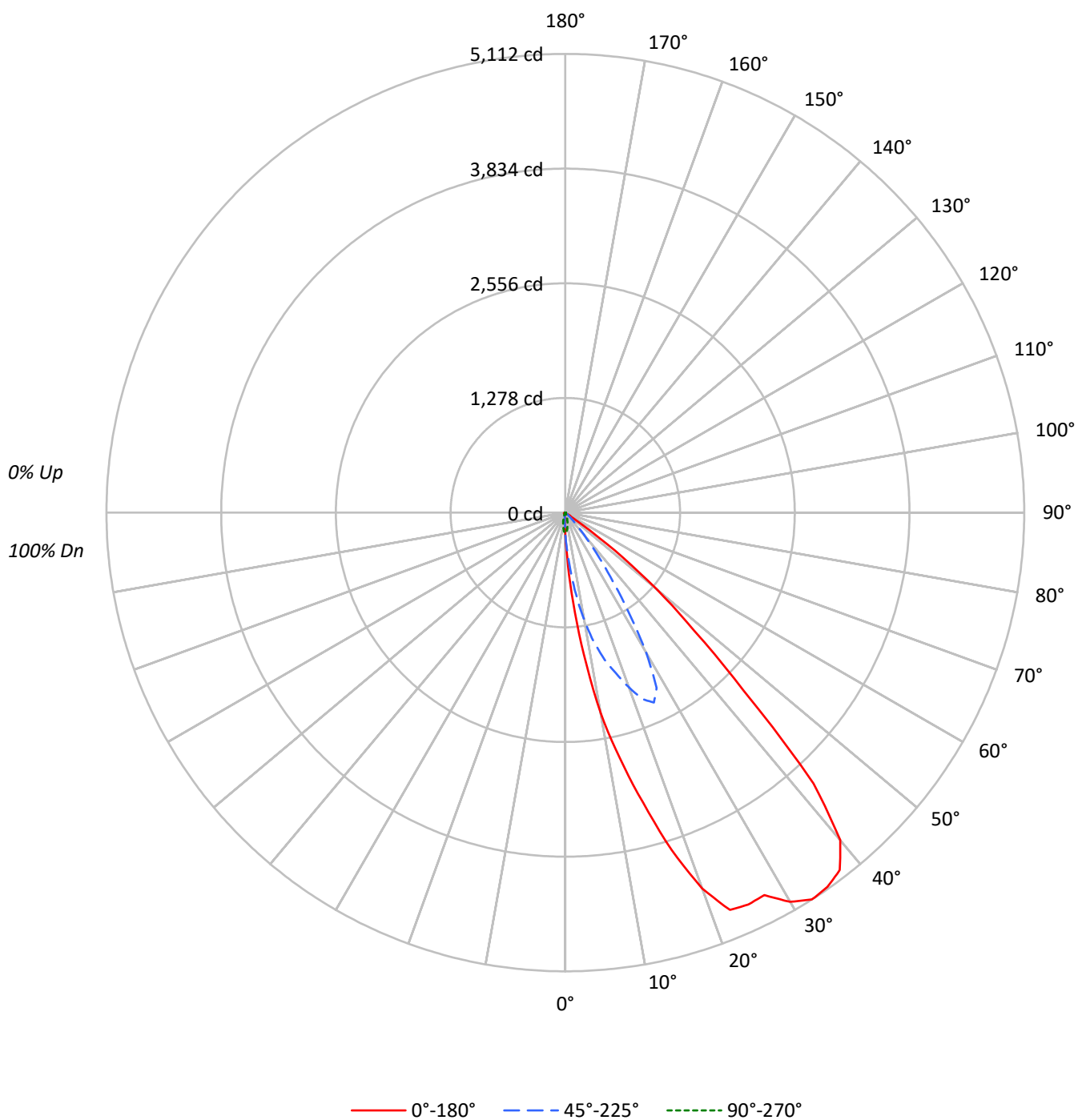
Lumens per Lamp: N/A
Luminaire Lumens: 1886.1 lumens
Efficiency: N/A
Efficacy: 68.8 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.42 / 1.24
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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

TEST NUMBER: P1318316

CATALOG NUMBER: P3SQAS20R409835D010 E3SQCA301MW

Luminous Intensity Polar Plot



TEST NUMBER: P1318316

CATALOG NUMBER: P3SQAS20R409835D010 E3SQCA301MW

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	51	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°	38440	38440	38440	38440	38440
5°	173330	110505	34455	13225	9647
10°	397518	213528	24256	4739	3620
15°	596549	302964	15066	2550	2282
20°	816841	379784	8761	1466	1759
25°	915681	443750	4542	1216	1520
30°	995998	358197	1909	955	1591
35°	1070420	183313	673	1346	2018
40°	1070798	73112	360	1439	2518
45°	683696	24453	779	2338	3483
50°	354901	3001	1286	3001	4260
55°	30627	480	1441	3843	5255
60°	1102	551	1653	4409	6028
65°	1304	652	2608	4564	6479
70°	806	806	3223	4834	6445
75°	1065	1065	3194	5323	7453
80°	1587	1587	4761	4761	6347
85°	0	3162	9485	6323	6323

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 683696 cd/sqm

TEST NUMBER: P1318316

CATALOG NUMBER: P3SQAS20R409835D010 E3SQCA301MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.5	2.3
10°-20°	255.3	13.5
20°-30°	559.1	29.6
30°-40°	636.9	33.8
40°-50°	336.0	17.8
50°-60°	39.6	2.1
60°-70°	7.1	0.4
70°-80°	5.9	0.3
80°-90°	2.7	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°	857.8	45.5
0°-40°	1494.7	79.2
0°-60°	1870.4	99.2
0°-90°	1886.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1886.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	223	223	223	223	223	
5°	1003	639	199	76	56	135
15°	3346	1699	84	14	13	986
25°	4819	2335	24	6	8	2220
35°	5091	872	3	6	10	3156
45°	2807	100	3	10	14	2263
55°	102	2	5	13	18	317
65°	3	2	6	11	16	3
75°	2	2	5	8	11	2
85°	0	2	5	3	3	0
90°	0	0	0	0	0	

TEST NUMBER: P1318316

CATALOG NUMBER: P3SQAS20R409835D010 E3SQCA301MW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	67.5°
0°	223.2	223.2	223.2	223.2	223.2	223.2	223.2	223.2	223.2	223.2	223.2
2.5°	497.3	497.3	495.7	481.4	479.8	478.2	452.7	446.3	416.0	395.3	301.3
5°	1002.6	980.3	978.7	953.2	910.2	852.8	816.1	757.2	699.8	639.2	371.4
7.5°	1597.2	1616.3	1563.7	1536.6	1441.0	1372.4	1267.2	1174.8	1045.7	924.5	428.8
10°	2273.1	2239.6	2187.0	2134.4	2030.8	1908.0	1751.8	1587.6	1401.1	1221.0	460.7
12.5°	2800.7	2757.6	2725.8	2654.0	2552.0	2394.2	2207.7	1987.7	1740.7	1480.8	459.1
15°	3345.8	3302.8	3231.1	3167.3	3015.9	2838.9	2636.5	2346.4	2043.5	1699.2	425.6
17.5°	3945.2	3889.4	3809.7	3712.5	3565.8	3369.7	3113.1	2759.2	2330.4	1877.7	365.0
20°	4456.9	4423.4	4343.7	4228.9	4085.5	3894.2	3597.7	3205.6	2682.7	2072.2	290.1
22.5°	4791.6	4761.3	4707.1	4606.7	4498.3	4294.3	4023.3	3592.9	2977.6	2249.2	220.0
25°	4818.7	4806.0	4791.6	4758.1	4692.8	4547.7	4283.1	3819.3	3160.9	2335.2	162.6
27.5°	4804.4	4799.6	4796.4	4778.9	4735.8	4592.4	4321.4	3852.7	3137.0	2201.3	119.6
30°	5008.4	4994.0	4986.1	4928.7	4815.5	4593.9	4240.1	3672.6	2787.9	1801.2	86.1
32.5°	5112.0	5108.8	5100.8	5045.1	4885.7	4597.1	4103.0	3237.4	2210.9	1300.7	59.0
35°	5091.3	5075.3	5046.6	4943.0	4721.5	4359.6	3659.9	2585.5	1595.6	871.9	38.3
37.5°	5021.1	4984.5	4928.7	4742.2	4447.3	3953.2	2968.1	1903.3	1085.5	564.3	22.3
40°	4762.9	4713.5	4625.8	4397.9	4010.5	3258.2	2195.0	1286.4	712.5	325.2	6.4
42.5°	4095.0	4031.3	3967.5	3712.5	3269.3	2429.3	1444.2	795.4	406.5	178.5	1.6
45°	2807.1	2727.4	2639.7	2454.8	2099.3	1471.3	859.2	447.9	210.4	100.4	1.6
47.5°	1949.5	1912.8	1759.8	1523.9	1168.4	779.5	444.7	220.0	111.6	46.2	1.6
50°	1324.6	1283.2	1104.7	876.7	621.7	373.0	204.0	110.0	49.4	11.2	1.6
52.5°	695.0	644.0	530.8	404.9	251.9	156.2	89.3	47.8	14.3	1.6	1.6
55°	102.0	94.0	76.5	62.2	55.8	43.0	25.5	11.2	1.6	1.6	3.2
57.5°	3.2	3.2	3.2	3.2	4.8	4.8	3.2	1.6	1.6	1.6	3.2
60°	3.2	3.2	3.2	3.2	3.2	1.6	1.6	1.6	1.6	1.6	3.2
62.5°	3.2	3.2	3.2	3.2	3.2	1.6	1.6	1.6	1.6	1.6	3.2
65°	3.2	3.2	3.2	3.2	3.2	1.6	1.6	1.6	1.6	1.6	3.2
67.5°	3.2	3.2	3.2	3.2	1.6	1.6	1.6	1.6	1.6	3.2	4.8
70°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	4.8
72.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	3.2	4.8
75°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	4.8
77.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	3.2	4.8
80°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	3.2
82.5°	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6	1.6	4.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	3.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	3.2
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: P1318316

CATALOG NUMBER: P3SQAS20R409835D010 E3SQCA301MW

CANDELA DISTRIBUTION (continued):

	90°	112.5°	135°	157.5°	180°
0°	223.2	223.2	223.2	223.2	223.2
2.5°	220.0	162.6	125.9	108.4	106.8
5°	199.3	116.4	76.5	59.0	55.8
7.5°	169.0	81.3	44.6	31.9	30.3
10°	138.7	55.8	27.1	22.3	20.7
12.5°	110.0	36.7	19.1	17.5	15.9
15°	84.5	23.9	14.3	12.8	12.8
17.5°	63.8	15.9	11.2	11.2	11.2
20°	47.8	11.2	8.0	9.6	9.6
22.5°	33.5	8.0	6.4	8.0	8.0
25°	23.9	6.4	6.4	8.0	8.0
27.5°	15.9	4.8	4.8	6.4	8.0
30°	9.6	3.2	4.8	6.4	8.0
32.5°	4.8	3.2	4.8	8.0	8.0
35°	3.2	4.8	6.4	8.0	9.6
37.5°	1.6	4.8	6.4	9.6	9.6
40°	1.6	4.8	6.4	9.6	11.2
42.5°	3.2	6.4	8.0	11.2	12.8
45°	3.2	6.4	9.6	12.8	14.3
47.5°	3.2	6.4	11.2	14.3	14.3
50°	4.8	8.0	11.2	14.3	15.9
52.5°	4.8	8.0	11.2	15.9	17.5
55°	4.8	8.0	12.8	15.9	17.5
57.5°	4.8	9.6	12.8	15.9	17.5
60°	4.8	8.0	12.8	15.9	17.5
62.5°	6.4	8.0	11.2	15.9	15.9
65°	6.4	8.0	11.2	15.9	15.9
67.5°	6.4	8.0	11.2	14.3	14.3
70°	6.4	8.0	9.6	12.8	12.8
72.5°	6.4	8.0	9.6	11.2	12.8
75°	4.8	6.4	8.0	9.6	11.2
77.5°	4.8	6.4	6.4	9.6	9.6
80°	4.8	4.8	4.8	6.4	6.4
82.5°	4.8	4.8	3.2	4.8	4.8
85°	4.8	3.2	3.2	3.2	3.2
87.5°	3.2	3.2	1.6	1.6	1.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)