

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: P1311619

Luminaire Tested: P3SQAS20R309050D010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1311619
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-50)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS20R309050D010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R30 optic, 5000K CCT AND, 90CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

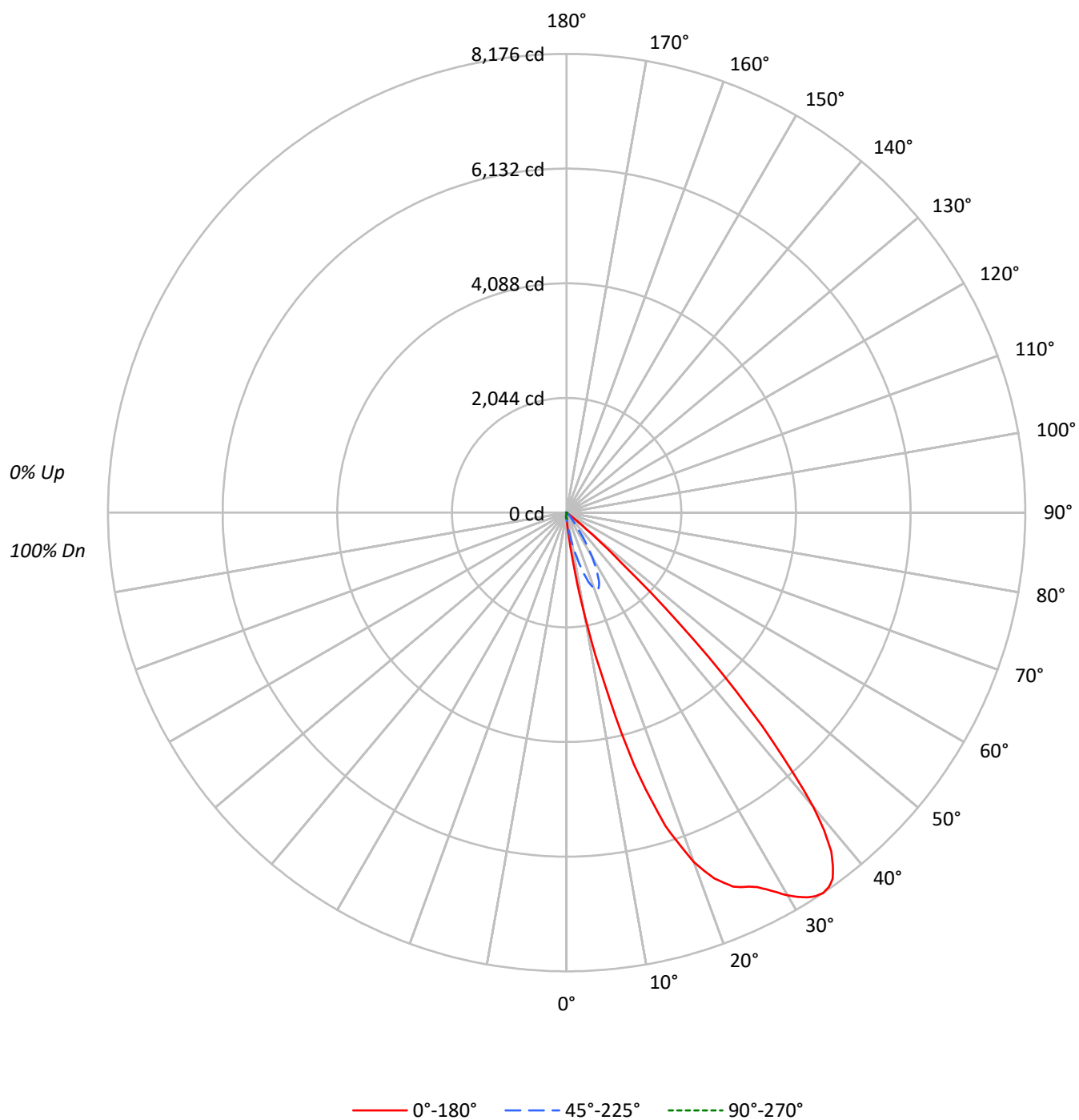
Lumens per Lamp: N/A
Luminaire Lumens: 1968.0 lumens
Efficiency: N/A
Efficacy: 68.3 lumens/watt
Spacing Criteria (0/90/45): 2.41 / 0.46 / 1.21
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1311619

CATALOG NUMBER: P3SQAS20R309050D010 E3SQCA301MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1311619

CATALOG NUMBER: P3SQAS20R309050D010 E3SQCA301MMS

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	96	92	104	98	94	91	95	92	89	92	89	87	89	87	85	83		
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75		
4	93	84	78	73	91	83	77	72	81	75	71	78	74	70	76	73	69	68		
5	87	77	70	65	85	76	70	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	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	43	41		
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	43	39	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	18135	18135	18135	18135	18135
5°	65781	40869	16597	6708	4789
10°	325556	97863	12924	1294	0
15°	830476	186375	8237	0	0
20°	1213467	265035	3391	0	0
25°	1399945	260051	703	0	0
30°	1566802	178502	0	0	0
35°	1713539	76887	0	0	0
40°	1537953	29901	0	0	0
45°	785382	12154	0	0	0
50°	121239	1474	0	0	0
55°	7206	0	540	0	0
60°	0	0	620	0	0
65°	0	0	1508	0	0
70°	0	906	1863	0	0
75°	0	1198	3660	0	0
80°	0	1785	5455	0	0
85°	0	3557	10868	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 785382 cd/sqm

TEST NUMBER: P1311619

CATALOG NUMBER: P3SQAS20R309050D010 E3SQCA301MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.0	1.1
10°-20°	262.2	13.3
20°-30°	648.0	32.9
30°-40°	745.2	37.9
40°-50°	276.4	14.0
50°-60°	10.1	0.5
60°-70°	1.0	0.0
70°-80°	1.6	0.1
80°-90°	1.5	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°	932.2	47.4
0°-40°	1677.4	85.2
0°-60°	1963.9	99.8
0°-90°	1968.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1968.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	105	105	105	105	105	
5°	380	236	96	39	28	83
15°	4658	1045	46	0	0	1339
25°	7367	1368	4	0	0	3404
35°	8150	366	0	0	0	4941
45°	3225	50	0	0	0	2511
55°	24	0	2	0	0	82
65°	0	0	4	0	0	0
75°	0	2	6	0	0	0
85°	0	2	6	0	0	0
90°	0	0	0	0	0	

TEST NUMBER: P1311619

CATALOG NUMBER: P3SQAS20R309050D010 E3SQCA301MMS

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	105.3	105.3	105.3	105.3	105.3	105.3	105.3	105.3	105.3	105.3	105.3
2.5°	186.5	188.4	188.4	182.8	181.0	179.1	173.6	157.0	131.1	105.3	85.0
5°	380.5	382.3	382.3	371.2	349.1	326.9	308.4	236.4	151.4	96.0	62.8
7.5°	897.6	899.4	860.6	816.3	727.7	681.5	596.5	363.8	171.8	86.8	40.6
10°	1861.6	1821.0	1719.4	1590.1	1453.5	1276.2	1097.0	559.6	186.5	73.9	25.9
12.5°	3112.0	3073.2	2942.0	2757.4	2489.6	2142.4	1802.5	786.8	188.4	59.1	14.8
15°	4657.8	4548.8	4391.8	4085.3	3690.0	3152.6	2591.1	1045.3	181.0	46.2	3.7
17.5°	5856.4	5756.7	5557.2	5198.9	4707.6	4111.1	3422.2	1291.0	160.7	29.5	0.0
20°	6621.0	6515.7	6329.2	6013.4	5490.7	4790.8	4002.1	1446.1	133.0	18.5	0.0
21°	6838.9	6737.3	6554.5	6240.5	5719.7	5021.6	4144.4	1479.3	120.0	14.8	0.0
22°	7031.0	6951.6	6781.7	6440.0	5910.0	5191.5	4288.4	1483.0	110.8	11.1	0.0
23°	7165.8	7108.6	6938.7	6624.7	6096.5	5330.0	4366.0	1460.9	99.7	7.4	0.0
24°	7295.1	7224.9	7079.0	6787.2	6244.2	5446.4	4436.2	1420.2	88.6	5.5	0.0
25°	7367.1	7285.9	7173.2	6899.9	6366.1	5520.3	4478.6	1368.5	77.6	3.7	0.0
26°	7417.0	7354.2	7230.5	6966.4	6417.8	5568.3	4484.2	1292.8	70.2	1.8	0.0
27°	7492.7	7429.9	7309.9	7025.5	6440.0	5560.9	4450.9	1206.0	60.9	0.0	0.0
28°	7607.2	7524.1	7404.1	7088.3	6449.2	5529.5	4377.1	1111.8	51.7	0.0	0.0
29°	7738.3	7653.4	7522.3	7171.4	6451.1	5466.7	4260.7	1008.4	46.2	0.0	0.0
30°	7878.7	7804.8	7671.9	7252.6	6471.4	5385.4	4125.9	897.6	36.9	0.0	0.0
31°	7989.5	7923.0	7780.8	7326.5	6488.0	5315.3	3959.7	786.8	31.4	0.0	0.0
32°	8085.6	8026.5	7851.0	7343.1	6454.8	5215.5	3782.4	679.6	25.9	0.0	0.0
33°	8152.0	8078.2	7873.2	7300.6	6358.7	5051.2	3584.8	578.1	20.3	0.0	0.0
34°	8176.1	8087.4	7839.9	7189.8	6164.8	4801.8	3328.0	472.8	16.6	0.0	0.0
35°	8150.2	8041.2	7719.9	6999.6	5902.6	4504.5	3019.6	365.7	12.9	0.0	0.0
36°	8067.1	7928.6	7548.1	6728.1	5527.7	4153.6	2711.2	284.4	9.2	0.0	0.0
37°	7887.9	7734.7	7254.5	6369.8	5156.4	3751.0	2360.3	221.6	5.5	0.0	0.0
38°	7668.2	7446.5	6862.9	5917.3	4676.3	3298.5	2013.1	182.8	3.7	0.0	0.0
39°	7293.3	7049.5	6397.5	5396.5	4205.3	2868.2	1675.1	158.8	1.8	0.0	0.0
40°	6840.8	6550.8	5865.6	4838.8	3649.4	2417.5	1398.1	133.0	1.8	0.0	0.0
42.5°	5160.1	4914.5	4177.6	3291.1	2231.0	1425.8	775.7	86.8	0.0	0.0	0.0
45°	3224.6	2967.9	2469.3	1804.4	1207.8	738.7	373.1	49.9	0.0	0.0	0.0
47.5°	1316.8	1207.8	993.6	764.6	546.7	347.2	155.1	22.2	0.0	0.0	0.0
50°	452.5	402.6	338.0	247.5	175.5	120.0	81.3	5.5	0.0	0.0	0.0
52.5°	131.1	133.0	116.4	99.7	77.6	55.4	40.6	0.0	0.0	0.0	0.0
55°	24.0	20.3	24.0	22.2	24.0	20.3	14.8	0.0	0.0	1.8	0.0
57.5°	0.0	0.0	1.8	1.8	1.8	1.8	1.8	0.0	1.8	1.8	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	3.7	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	3.7	1.8
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	3.7	3.7	1.8
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	3.7	3.7	1.8
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	3.7	5.5	1.8
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	3.7	5.5	1.8
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	3.7	5.5	1.8
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	3.7	5.5	1.8



TEST NUMBER: P1311619

CATALOG NUMBER: P3SQAS20R309050D010 E3SQCA301MMS

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	3.7	5.5	1.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	3.7	5.5	1.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	3.7	5.5	1.8
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: P1311619

CATALOG NUMBER: P3SQAS20R309050D010 E3SQCA301MMS

CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
0°	105.3	105.3	105.3
2.5°	68.3	60.9	57.3
5°	38.8	29.5	27.7
7.5°	20.3	12.9	11.1
10°	7.4	1.8	0.0
12.5°	0.0	0.0	0.0
15°	0.0	0.0	0.0
17.5°	0.0	0.0	0.0
20°	0.0	0.0	0.0
21°	0.0	0.0	0.0
22°	0.0	0.0	0.0
23°	0.0	0.0	0.0
24°	0.0	0.0	0.0
25°	0.0	0.0	0.0
26°	0.0	0.0	0.0
27°	0.0	0.0	0.0
28°	0.0	0.0	0.0
29°	0.0	0.0	0.0
30°	0.0	0.0	0.0
31°	0.0	0.0	0.0
32°	0.0	0.0	0.0
33°	0.0	0.0	0.0
34°	0.0	0.0	0.0
35°	0.0	0.0	0.0
36°	0.0	0.0	0.0
37°	0.0	0.0	0.0
38°	0.0	0.0	0.0
39°	0.0	0.0	0.0
40°	0.0	0.0	0.0
42.5°	0.0	0.0	0.0
45°	0.0	0.0	0.0
47.5°	0.0	0.0	0.0
50°	0.0	0.0	0.0
52.5°	0.0	0.0	0.0
55°	0.0	0.0	0.0
57.5°	0.0	0.0	0.0
60°	0.0	0.0	0.0
62.5°	0.0	0.0	0.0
65°	0.0	0.0	0.0
67.5°	0.0	0.0	0.0
70°	0.0	0.0	0.0
72.5°	0.0	0.0	0.0
75°	0.0	0.0	0.0
77.5°	0.0	0.0	0.0
80°	0.0	0.0	0.0



TEST NUMBER: P1311619

CATALOG NUMBER: P3SQAS20R309050D010 E3SQCA301MMS

CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
82.5°	0.0	0.0	0.0
85°	0.0	0.0	0.0
87.5°	0.0	0.0	0.0
90°	0.0	0.0	0.0

(END OF REPORT)