

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: P1309458

Luminaire Tested: P3SQAS20R409035D010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1309458
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-52)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS20R409035D010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R40 optic, 3500K CCT AND, 90CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

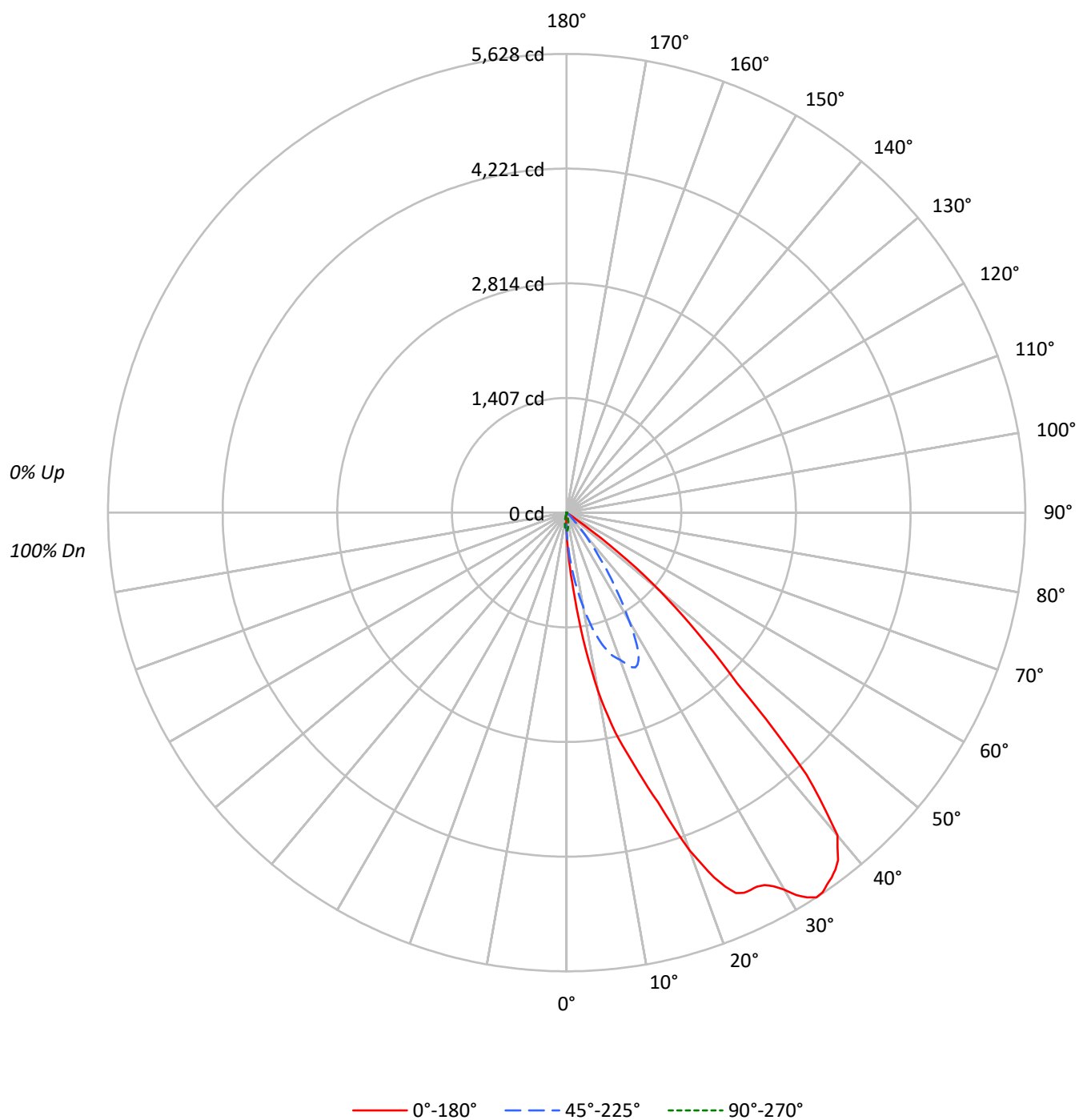
Lumens per Lamp: N/A
Luminaire Lumens: 1889.0 lumens
Efficiency: N/A
Efficacy: 65.6 lumens/watt
Spacing Criteria (0/90/45): 2.56 / 0.36 / 1.23
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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: P1309458

CATALOG NUMBER: P3SQAS20R409035D010 E3SQCA301MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1309458

CATALOG NUMBER: P3SQAS20R409035D010 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	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91		
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	83		
3	99	91	85	80	97	90	84	80	87	82	78	84	81	77	82	79	76	74		
4	92	83	77	72	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	59	56	54		
7	75	64	57	52	74	63	56	51	62	56	51	60	55	51	59	54	50	49		
8	70	59	51	47	69	58	51	46	57	51	46	56	50	46	55	50	46	44		
9	66	54	47	42	64	54	47	42	52	46	42	51	46	42	51	45	42	40		
10	62	50	43	38	60	49	43	38	49	42	38	48	42	38	47	42	38	36		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	38044	38044	38044	38044	38044
5°	161505	110073	33383	6016	3008
10°	388197	204749	20688	612	0
15°	571356	297455	8683	0	0
20°	807622	352640	3189	0	0
25°	978200	391417	0	0	0
30°	1062101	306173	0	0	0
35°	1171149	179213	0	0	0
40°	1162390	72752	0	0	0
45°	719889	21190	0	0	0
50°	400851	455	0	0	0
55°	39184	0	0	0	0
60°	0	0	586	0	0
65°	0	0	693	0	0
70°	0	856	1762	0	0
75°	0	1131	2329	0	0
80°	0	1686	3471	0	0
85°	0	3359	6916	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 5°

Vertical Angle: 45°

Luminance: 723275 cd/sqm

TEST NUMBER: P1309458

CATALOG NUMBER: P3SQAS20R409035D010 E3SQCA301MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.4	2.2
10°-20°	243.5	12.9
20°-30°	555.8	29.4
30°-40°	656.3	34.7
40°-50°	350.6	18.6
50°-60°	38.1	2.0
60°-70°	0.7	0.0
70°-80°	1.3	0.1
80°-90°	1.2	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°	840.7	44.5
0°-40°	1496.9	79.2
0°-60°	1885.7	99.8
0°-90°	1889.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1889.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	221	221	221	221	221	
5°	934	637	193	35	17	131
15°	3204	1668	49	0	0	952
25°	5148	2060	0	0	0	2337
35°	5570	852	0	0	0	3441
45°	2956	87	0	0	0	2437
55°	130	0	0	0	0	366
65°	0	0	2	0	0	0
75°	0	2	4	0	0	0
85°	0	2	4	0	0	0
90°	0	0	0	0	0	

TEST NUMBER: P1309458

CATALOG NUMBER: P3SQAS20R409035D010 E3SQCA301MMS

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	220.9	220.9	220.9	220.9	220.9	220.9	220.9	220.9	220.9	220.9	220.9
2.5°	514.9	504.5	511.5	497.5	497.5	466.2	468.0	441.9	403.6	307.9	219.2
5°	934.2	976.0	942.9	899.4	875.1	843.7	802.0	758.5	636.7	384.5	193.1
7.5°	1564.0	1560.5	1504.8	1457.8	1403.9	1320.4	1242.1	1136.0	906.4	440.1	160.0
10°	2219.8	2207.6	2145.0	2105.0	2002.4	1882.3	1722.3	1551.8	1170.8	459.3	118.3
12.5°	2766.1	2750.4	2698.2	2630.4	2517.3	2365.9	2193.7	1969.3	1449.1	438.4	76.5
15°	3204.5	3201.0	3150.5	3058.3	2940.0	2792.2	2597.3	2327.7	1668.3	384.5	48.7
17.5°	3724.6	3745.5	3655.0	3555.9	3385.4	3178.4	2940.0	2632.1	1830.1	318.4	31.3
20°	4406.6	4377.0	4293.5	4149.1	3985.6	3736.8	3399.3	2959.2	1924.1	247.0	17.4
21°	4615.3	4603.1	4516.2	4382.2	4201.3	3949.0	3601.1	3126.2	1967.6	220.9	13.9
22°	4827.6	4806.7	4738.8	4608.4	4437.9	4152.6	3769.8	3298.4	2023.2	193.1	8.7
23°	4985.9	4977.2	4925.0	4796.2	4620.5	4343.9	3952.5	3458.4	2061.5	167.0	5.2
24°	5107.6	5097.2	5045.0	4947.6	4796.2	4507.5	4136.9	3630.7	2077.2	144.4	1.7
25°	5147.7	5152.9	5121.6	5045.0	4918.0	4629.2	4274.3	3766.4	2059.8	123.5	0.0
26°	5149.4	5165.1	5142.4	5098.9	4994.6	4726.7	4403.1	3846.4	2014.5	104.4	0.0
27°	5149.4	5165.1	5142.4	5109.4	5006.7	4782.3	4472.7	3855.1	1944.9	88.7	0.0
28°	5173.8	5182.5	5152.9	5112.9	5001.5	4799.7	4491.8	3802.9	1833.6	76.5	0.0
29°	5241.6	5232.9	5184.2	5130.3	4996.3	4799.7	4434.4	3703.7	1694.4	64.4	0.0
30°	5340.8	5340.8	5264.2	5179.0	5020.7	4798.0	4342.2	3524.6	1539.6	52.2	0.0
31°	5474.7	5462.5	5386.0	5259.0	5072.9	4798.0	4206.5	3326.2	1396.9	45.2	0.0
32°	5565.2	5558.2	5485.2	5335.5	5158.1	4798.0	4060.4	3107.0	1242.1	36.5	0.0
33°	5627.8	5613.9	5530.4	5375.6	5210.3	4773.6	3896.8	2872.2	1102.9	29.6	0.0
34°	5619.1	5615.6	5528.6	5368.6	5199.8	4672.7	3707.2	2611.2	974.2	24.4	0.0
35°	5570.4	5570.4	5464.3	5299.0	5125.0	4524.9	3519.3	2388.6	852.4	17.4	0.0
36°	5533.9	5519.9	5399.9	5215.5	4999.8	4291.7	3241.0	2164.1	722.0	13.9	0.0
37°	5479.9	5453.8	5319.9	5121.6	4822.3	4039.5	2948.7	1964.1	610.6	8.7	0.0
38°	5410.3	5370.3	5206.8	5012.0	4627.5	3749.0	2651.2	1739.7	508.0	5.2	0.0
39°	5283.4	5250.3	5081.6	4871.1	4394.4	3442.8	2362.5	1529.2	410.6	1.7	0.0
40°	5170.3	5112.9	4921.5	4679.7	4121.3	3096.6	2075.4	1322.1	323.6	0.0	0.0
42.5°	4359.6	4298.7	4255.2	4015.1	3282.7	2223.3	1449.1	847.2	168.7	0.0	0.0
45°	2955.7	2969.6	2833.9	2672.1	2165.9	1449.1	906.4	471.4	87.0	0.0	0.0
47.5°	2155.4	2118.9	1934.5	1628.3	1270.0	847.2	473.2	227.9	34.8	0.0	0.0
50°	1496.1	1426.5	1259.5	1029.9	690.6	403.6	208.8	106.1	1.7	0.0	0.0
52.5°	812.4	763.7	647.2	469.7	287.0	154.8	83.5	43.5	0.0	0.0	0.0
55°	130.5	90.5	93.9	80.0	62.6	45.2	26.1	5.2	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	1.7	1.7
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	3.5
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	3.5	3.5
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	3.5	3.5
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	3.5	3.5
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	3.5	3.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	3.5	3.5



TEST NUMBER: P1309458

CATALOG NUMBER: P3SQAS20R409035D010 E3SQCA301MMS

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	3.5	3.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	3.5	3.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	3.5	3.5
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: P1309458

CATALOG NUMBER: P3SQAS20R409035D010 E3SQCA301MMS

CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
0°	220.9	220.9	220.9	220.9
2.5°	147.9	100.9	76.5	66.1
5°	85.2	34.8	19.1	17.4
7.5°	41.8	12.2	7.0	7.0
10°	17.4	3.5	0.0	0.0
12.5°	5.2	0.0	0.0	0.0
15°	0.0	0.0	0.0	0.0
17.5°	0.0	0.0	0.0	0.0
20°	0.0	0.0	0.0	0.0
21°	0.0	0.0	0.0	0.0
22°	0.0	0.0	0.0	0.0
23°	0.0	0.0	0.0	0.0
24°	0.0	0.0	0.0	0.0
25°	0.0	0.0	0.0	0.0
26°	0.0	0.0	0.0	0.0
27°	0.0	0.0	0.0	0.0
28°	0.0	0.0	0.0	0.0
29°	0.0	0.0	0.0	0.0
30°	0.0	0.0	0.0	0.0
31°	0.0	0.0	0.0	0.0
32°	0.0	0.0	0.0	0.0
33°	0.0	0.0	0.0	0.0
34°	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0
36°	0.0	0.0	0.0	0.0
37°	0.0	0.0	0.0	0.0
38°	0.0	0.0	0.0	0.0
39°	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0
65°	1.7	0.0	0.0	0.0
67.5°	1.7	0.0	0.0	0.0
70°	1.7	0.0	0.0	0.0
72.5°	1.7	0.0	0.0	0.0
75°	1.7	0.0	0.0	0.0
77.5°	1.7	0.0	0.0	0.0
80°	1.7	0.0	0.0	0.0



TEST NUMBER: P1309458

CATALOG NUMBER: P3SQAS20R409035D010 E3SQCA301MMS

CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
82.5°	1.7	0.0	0.0	0.0
85°	1.7	0.0	0.0	0.0
87.5°	1.7	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)