

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: P1307156

Luminaire Tested: P3SQAS20R209027D010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1307156
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-48)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS20R209027D010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R20 optic, 2700K CCT AND, 90CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

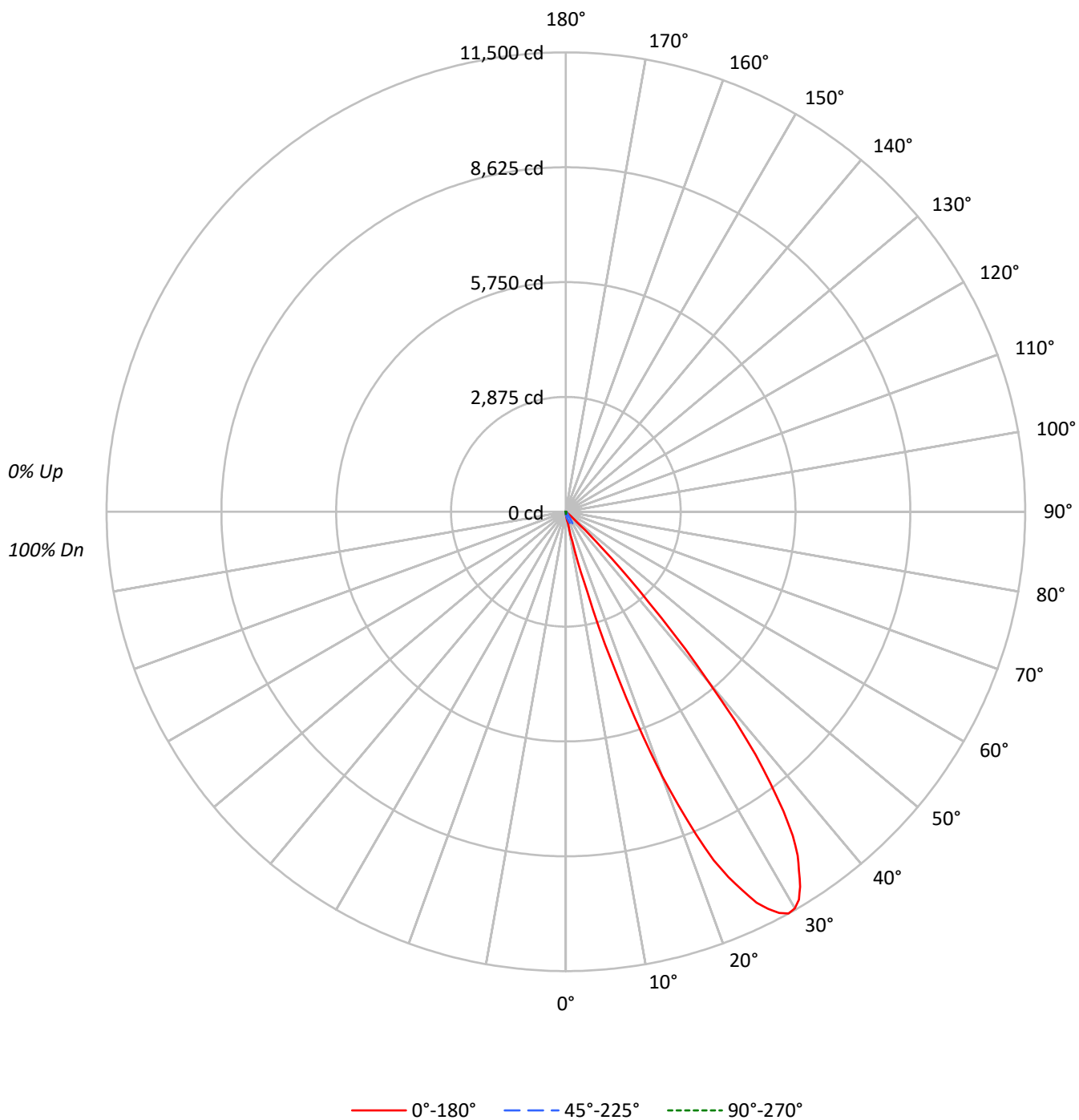
Lumens per Lamp: N/A
Luminaire Lumens: 1587.0 lumens
Efficiency: N/A
Efficacy: 55.1 lumens/watt
Spacing Criteria (0/90/45): 2.28 / 0.42 / 1.12
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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: P1307156

CATALOG NUMBER: P3SQAS20R209027D010 E3SQCA301MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1307156

CATALOG NUMBER: P3SQAS20R209027D010 E3SQCA301MMS

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	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	77	72	91	83	77	72	80	75	71	78	74	70	76	73	69	68		
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63	61		
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	57	55		
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	50		
8	71	59	52	47	69	59	52	47	57	51	47	56	51	46	55	50	46	45		
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40		
10	62	50	43	38	60	50	43	38	49	42	38	48	42	38	47	42	38	36		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	9782	9782	9782	9782	9782
5°	21282	15006	9007	4097	3008
10°	52988	26494	6348	822	0
15°	372875	36301	3655	0	0
20°	1288683	61031	1448	0	0
25°	1986406	77987	608	0	0
30°	2279994	60256	0	0	0
35°	2082267	22896	0	0	0
40°	1248339	10634	0	0	0
45°	306763	4993	0	0	0
50°	33840	1259	0	0	0
55°	4744	0	480	0	0
60°	0	0	1102	0	0
65°	0	0	1304	0	0
70°	0	806	2367	0	0
75°	0	1065	3127	0	0
80°	0	1587	4661	0	0
85°	0	3162	9287	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 1°

Vertical Angle: 45°

Luminance: 327149 cd/sqm

TEST NUMBER: P1307156

CATALOG NUMBER: P3SQAS20R209027D010 E3SQCA301MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.4	0.4
10°-20°	123.9	7.8
20°-30°	626.9	39.5
30°-40°	678.3	42.7
40°-50°	143.3	9.0
50°-60°	4.3	0.3
60°-70°	1.0	0.1
70°-80°	1.5	0.1
80°-90°	1.3	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°	757.3	47.7
0°-40°	1435.6	90.5
0°-60°	1583.2	99.8
0°-90°	1587.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1587.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	57	57	57	57	57	
5°	123	87	52	24	17	17
15°	2091	204	20	0	0	872
25°	10453	410	3	0	0	4725
35°	9904	109	0	0	0	5840
45°	1260	20	0	0	0	1386
55°	16	0	2	0	0	28
65°	0	0	3	0	0	0
75°	0	2	5	0	0	0
85°	0	2	5	0	0	0
90°	0	0	0	0	0	

TEST NUMBER: P1307156

CATALOG NUMBER: P3SQAS20R209027D010 E3SQCA301MMS

CANDELA DISTRIBUTION (FULL):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8
2.5°	77.3	75.8	77.3	75.8	77.3	77.3	77.3	75.8	75.8	75.8	75.8
5°	123.1	123.1	121.5	123.1	123.1	123.1	123.1	121.5	121.5	120.0	120.0
7.5°	194.1	194.1	192.6	192.6	194.1	195.7	189.4	192.6	192.6	192.6	191.0
10°	303.0	309.4	303.0	310.9	304.6	299.9	307.8	299.9	299.9	298.3	293.6
12.5°	763.9	746.5	735.5	708.7	735.5	715.0	719.7	715.0	699.2	678.7	666.1
15°	2091.3	2091.3	2029.7	2111.8	2051.8	2073.9	1960.3	1961.9	1903.5	1840.3	1805.6
17.5°	4372.0	4411.4	4370.4	4345.1	4291.5	4214.1	4182.6	4102.1	3996.3	3873.2	3859.0
20°	7031.4	6865.7	6943.1	6872.0	6827.8	6733.1	6627.4	6561.1	6468.0	6311.7	6081.3
21°	7868.0	7861.6	7860.1	7858.5	7793.8	7639.1	7542.8	7410.2	7279.2	7118.3	6925.7
22°	8710.8	8740.8	8753.4	8661.9	8529.3	8459.8	8393.5	8212.0	8005.3	7921.6	7692.8
23°	9484.2	9455.8	9373.7	9331.1	9228.5	9208.0	9010.7	8895.5	8693.4	8601.9	8330.4
24°	10011.3	9997.1	9959.2	9896.1	9814.0	9687.8	9569.4	9387.9	9222.2	9072.2	8819.7
25°	10453.3	10465.9	10396.4	10353.8	10265.4	10123.4	9978.2	9779.3	9624.6	9449.4	9157.5
26°	10890.5	10802.1	10746.8	10683.7	10587.4	10424.9	10284.4	10106.0	9918.2	9722.5	9436.8
27°	11160.4	11081.4	10997.8	10936.2	10825.7	10671.1	10521.1	10323.8	10113.9	9916.6	9623.1
28°	11373.4	11286.6	11204.5	11130.4	11004.1	10838.4	10658.4	10458.0	10240.2	10036.6	9736.7
29°	11499.7	11397.1	11308.7	11225.1	11109.8	10929.9	10748.4	10533.8	10323.8	10110.8	9804.6
30°	11465.0	11376.6	11291.4	11206.1	11089.3	10920.4	10740.5	10535.3	10323.8	10113.9	9803.0
31°	11329.2	11220.3	11158.8	11073.5	10972.5	10800.5	10645.8	10421.7	10230.7	10003.4	9692.5
32°	11068.8	10999.4	10917.3	10851.0	10753.1	10570.1	10418.5	10235.5	10009.8	9823.5	9496.8
33°	10715.3	10650.6	10609.5	10532.2	10437.5	10311.2	10129.7	9962.4	9708.3	9517.3	9190.6
34°	10377.5	10295.4	10192.8	10170.7	10088.7	9926.1	9762.0	9591.5	9364.2	9121.2	8791.3
35°	9904.0	9818.8	9724.1	9732.0	9634.1	9444.7	9277.4	9086.4	8870.2	8584.5	8272.0
36°	9271.1	9214.3	9200.1	9162.2	9050.1	8824.4	8665.0	8425.1	8243.6	7894.8	7626.5
37°	8499.3	8519.8	8417.2	8368.3	8237.3	8079.5	7989.5	7681.7	7470.2	7208.2	6845.2
38°	7719.6	7689.6	7568.1	7598.1	7418.1	7254.0	6999.9	6816.8	6580.0	6337.0	6046.6
39°	6745.8	6671.6	6526.4	6532.7	6397.0	6212.3	5966.1	5749.8	5607.8	5374.2	5096.4
40°	5552.6	5521.0	5470.5	5386.8	5208.5	5128.0	4908.6	4675.0	4555.1	4231.5	4095.8
42.5°	3080.9	3038.3	2953.1	2923.1	2828.4	2733.7	2605.8	2449.6	2373.8	2277.5	2062.9
45°	1259.5	1343.2	1322.6	1299.0	1226.4	1231.1	1139.6	1150.6	1066.9	1010.1	970.7
47.5°	277.8	301.5	303.0	292.0	303.0	293.6	288.8	280.9	282.5	287.3	276.2
50°	126.3	124.7	127.8	126.3	124.7	123.1	121.5	116.8	120.0	116.8	113.6
52.5°	48.9	50.5	50.5	47.3	48.9	48.9	48.9	47.3	47.3	47.3	47.3
55°	15.8	15.8	15.8	14.2	14.2	15.8	15.8	15.8	15.8	15.8	14.2
57.5°	1.6	3.2	1.6	3.2	1.6	1.6	1.6	1.6	1.6	3.2	3.2
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P1307156

CATALOG NUMBER: P3SQAS20R209027D010 E3SQCA301MMS

CANDELA DISTRIBUTION (continued):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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: P1307156

CATALOG NUMBER: P3SQAS20R209027D010 E3SQCA301MMS

CANDELA DISTRIBUTION (continued):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8
2.5°	72.6	66.3	61.6	56.8	47.3	39.5	36.3	36.3
5°	112.1	86.8	64.7	52.1	36.3	23.7	18.9	17.4
7.5°	168.9	116.8	67.9	44.2	23.7	12.6	7.9	6.3
10°	244.6	151.5	71.0	36.3	14.2	4.7	0.0	0.0
12.5°	427.7	181.5	71.0	28.4	6.3	0.0	0.0	0.0
15°	980.1	203.6	67.9	20.5	1.6	0.0	0.0	0.0
17.5°	2036.0	255.7	60.0	14.2	0.0	0.0	0.0	0.0
20°	3251.4	333.0	47.3	7.9	0.0	0.0	0.0	0.0
21°	3751.7	359.9	42.6	6.3	0.0	0.0	0.0	0.0
22°	4111.5	385.1	37.9	4.7	0.0	0.0	0.0	0.0
23°	4507.7	400.9	33.1	3.2	0.0	0.0	0.0	0.0
24°	4799.7	410.4	28.4	3.2	0.0	0.0	0.0	0.0
25°	4981.2	410.4	25.3	3.2	0.0	0.0	0.0	0.0
26°	5088.5	400.9	22.1	1.6	0.0	0.0	0.0	0.0
27°	5113.8	385.1	18.9	1.6	0.0	0.0	0.0	0.0
28°	5082.2	364.6	15.8	0.0	0.0	0.0	0.0	0.0
29°	4982.8	334.6	14.2	0.0	0.0	0.0	0.0	0.0
30°	4875.5	303.0	11.0	0.0	0.0	0.0	0.0	0.0
31°	4692.4	260.4	9.5	0.0	0.0	0.0	0.0	0.0
32°	4480.9	216.2	7.9	0.0	0.0	0.0	0.0	0.0
33°	4198.4	170.5	6.3	0.0	0.0	0.0	0.0	0.0
34°	3781.7	134.2	6.3	0.0	0.0	0.0	0.0	0.0
35°	3407.6	108.9	4.7	0.0	0.0	0.0	0.0	0.0
36°	2918.3	86.8	4.7	0.0	0.0	0.0	0.0	0.0
37°	2500.1	72.6	4.7	0.0	0.0	0.0	0.0	0.0
38°	2092.9	61.6	3.2	0.0	0.0	0.0	0.0	0.0
39°	1698.3	53.7	3.2	0.0	0.0	0.0	0.0	0.0
40°	1354.2	47.3	3.2	0.0	0.0	0.0	0.0	0.0
42.5°	730.8	31.6	0.0	0.0	0.0	0.0	0.0	0.0
45°	404.1	20.5	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	178.4	11.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	60.0	4.7	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	14.2	0.0	0.0	1.6	0.0	0.0	0.0	0.0
57.5°	3.2	0.0	0.0	1.6	0.0	0.0	0.0	0.0
60°	0.0	0.0	1.6	3.2	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	1.6	3.2	1.6	0.0	0.0	0.0
65°	0.0	0.0	3.2	3.2	1.6	0.0	0.0	0.0
67.5°	0.0	1.6	3.2	4.7	1.6	0.0	0.0	0.0
70°	0.0	1.6	3.2	4.7	1.6	0.0	0.0	0.0
72.5°	0.0	1.6	3.2	4.7	1.6	0.0	0.0	0.0
75°	0.0	1.6	3.2	4.7	1.6	0.0	0.0	0.0
77.5°	0.0	1.6	3.2	4.7	1.6	0.0	0.0	0.0
80°	0.0	1.6	3.2	4.7	1.6	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.0	1.6	3.2	4.7	1.6	0.0	0.0	0.0
85°	0.0	1.6	3.2	4.7	1.6	0.0	0.0	0.0
87.5°	0.0	1.6	3.2	4.7	1.6	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)