

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: P1314649

Luminaire Tested: P3SQAS20R209735D010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1314649
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: P3SQAS20R209735D010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R20 optic, 3500K CCT AND, 97CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

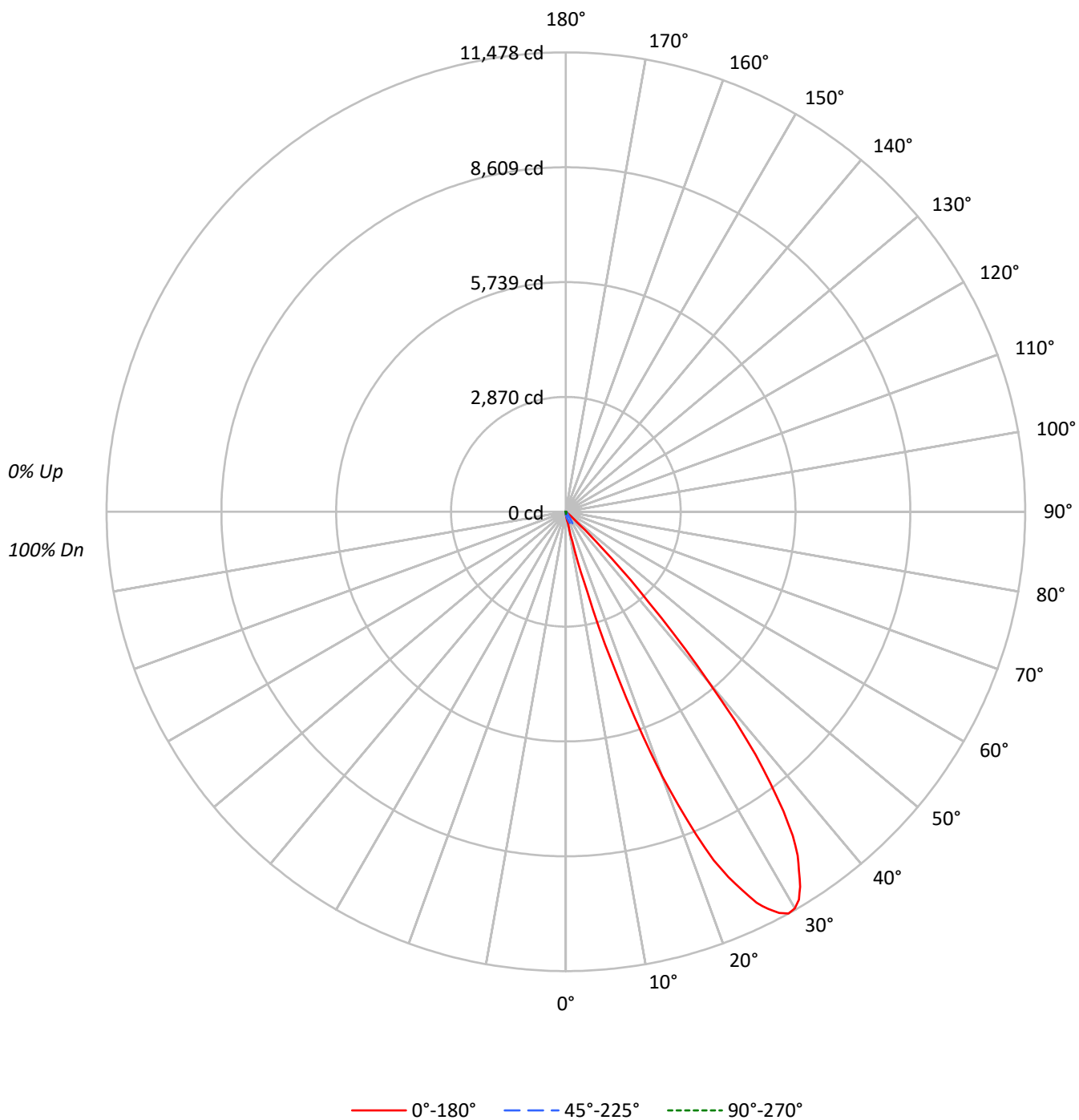
Lumens per Lamp: N/A
Luminaire Lumens: 1584.0 lumens
Efficiency: N/A
Efficacy: 55.0 lumens/watt
Spacing Criteria (0/90/45): 2.28 / 0.42 / 1.12
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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: P1314649

CATALOG NUMBER: P3SQAS20R209735D010 E3SQCA301MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1314649

CATALOG NUMBER: P3SQAS20R209735D010 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	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	49		
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°	9765	9765	9765	9765	9765
5°	21247	14971	8990	4080	2991
10°	52901	26442	6331	822	0
15°	372161	36230	3655	0	0
20°	1286264	60921	1448	0	0
25°	1982643	77835	608	0	0
30°	2275678	60157	0	0	0
35°	2078335	22854	0	0	0
40°	1245979	10634	0	0	0
45°	306179	4993	0	0	0
50°	33759	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: 326516 cd/sqm

TEST NUMBER: P1314649

CATALOG NUMBER: P3SQAS20R209735D010 E3SQCA301MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.4	0.4
10°-20°	123.7	7.8
20°-30°	625.8	39.5
30°-40°	677.0	42.7
40°-50°	143.0	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°	755.9	47.7
0°-40°	1432.9	90.5
0°-60°	1580.2	99.8
0°-90°	1584.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1584.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	57	57	57	57	57	
5°	123	87	52	24	17	17
15°	2087	203	20	0	0	870
25°	10434	410	3	0	0	4716
35°	9885	109	0	0	0	5829
45°	1257	20	0	0	0	1383
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: P1314649

CATALOG NUMBER: P3SQAS20R209735D010 E3SQCA301MMS

CANDELA DISTRIBUTION (FULL):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7
2.5°	77.2	75.6	77.2	75.6	77.2	77.2	77.2	75.6	75.6	75.6	75.6
5°	122.9	122.9	121.3	122.9	122.9	122.9	122.9	121.3	121.3	119.7	119.7
7.5°	193.8	193.8	192.2	192.2	193.8	195.3	189.0	192.2	192.2	192.2	190.6
10°	302.5	308.8	302.5	310.3	304.0	299.3	307.2	299.3	299.3	297.7	293.0
12.5°	762.5	745.1	734.1	707.3	734.1	713.6	718.4	713.6	697.9	677.4	664.8
15°	2087.3	2087.3	2025.9	2107.8	2047.9	2070.0	1956.6	1958.2	1899.9	1836.9	1802.2
17.5°	4363.7	4403.1	4362.1	4336.9	4283.4	4206.2	4174.7	4094.3	3988.8	3865.9	3851.7
20°	7018.2	6852.7	6929.9	6859.0	6814.9	6720.4	6614.9	6548.7	6455.8	6299.8	6069.8
21°	7853.1	7846.8	7845.2	7843.6	7779.0	7624.7	7528.6	7396.2	7265.5	7104.8	6912.6
22°	8694.3	8724.3	8736.9	8645.5	8513.2	8443.8	8377.7	8196.5	7990.1	7906.7	7678.2
23°	9466.2	9437.9	9356.0	9313.4	9211.0	9190.6	8993.6	8878.6	8677.0	8585.6	8314.7
24°	9992.4	9978.2	9940.4	9877.4	9795.5	9669.5	9551.3	9370.1	9204.7	9055.1	8803.0
25°	10433.5	10446.1	10376.8	10334.3	10246.0	10104.3	9959.3	9760.8	9606.4	9431.6	9140.1
26°	10869.9	10781.7	10726.5	10663.5	10567.4	10405.1	10264.9	10086.9	9899.5	9704.1	9419.0
27°	11139.3	11060.5	10977.0	10915.6	10805.3	10650.9	10501.2	10304.3	10094.8	9897.9	9604.9
28°	11351.9	11265.3	11183.4	11109.3	10983.3	10817.9	10638.3	10438.2	10220.8	10017.6	9718.3
29°	11478.0	11375.6	11287.3	11203.8	11088.8	10909.3	10728.1	10513.8	10304.3	10091.7	9786.0
30°	11443.3	11355.1	11270.0	11184.9	11068.4	10899.8	10720.2	10515.4	10304.3	10094.8	9784.5
31°	11307.8	11199.1	11137.7	11052.6	10951.8	10780.1	10625.7	10402.0	10211.4	9984.5	9674.2
32°	11047.9	10978.6	10896.7	10830.5	10732.8	10550.1	10398.8	10216.1	9990.8	9804.9	9478.8
33°	10695.0	10630.4	10589.5	10512.3	10417.7	10291.7	10110.6	9943.6	9689.9	9499.3	9173.2
34°	10357.9	10276.0	10173.6	10151.5	10069.6	9907.3	9743.5	9573.4	9346.5	9103.9	8774.7
35°	9885.3	9800.2	9705.7	9713.6	9615.9	9426.9	9259.9	9069.3	8853.4	8568.3	8256.4
36°	9253.6	9196.9	9182.7	9144.9	9033.0	8807.7	8648.6	8409.2	8228.0	7879.9	7612.1
37°	8483.2	8503.7	8401.3	8352.5	8221.7	8064.2	7974.4	7667.2	7456.1	7194.6	6832.3
38°	7705.0	7675.1	7553.8	7583.7	7404.1	7240.3	6986.6	6803.9	6567.6	6325.0	6035.1
39°	6733.0	6659.0	6514.0	6520.3	6384.9	6200.6	5954.8	5739.0	5597.2	5364.0	5086.8
40°	5542.1	5510.6	5460.1	5376.6	5198.6	5118.3	4899.3	4666.2	4546.4	4223.5	4088.0
42.5°	3075.1	3032.5	2947.5	2917.5	2823.0	2728.5	2600.9	2444.9	2369.3	2273.2	2059.0
45°	1257.1	1340.6	1320.1	1296.5	1224.0	1228.8	1137.4	1148.4	1064.9	1008.2	968.8
47.5°	277.3	300.9	302.5	291.4	302.5	293.0	288.3	280.4	282.0	286.7	275.7
50°	126.0	124.5	127.6	126.0	124.5	122.9	121.3	116.6	119.7	116.6	113.4
52.5°	48.8	50.4	50.4	47.3	48.8	48.8	48.8	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: P1314649

CATALOG NUMBER: P3SQAS20R209735D010 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: P1314649

CATALOG NUMBER: P3SQAS20R209735D010 E3SQCA301MMS

CANDELA DISTRIBUTION (continued):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7
2.5°	72.5	66.2	61.4	56.7	47.3	39.4	36.2	36.2
5°	111.8	86.6	64.6	52.0	36.2	23.6	18.9	17.3
7.5°	168.6	116.6	67.7	44.1	23.6	12.6	7.9	6.3
10°	244.2	151.2	70.9	36.2	14.2	4.7	0.0	0.0
12.5°	426.9	181.2	70.9	28.4	6.3	0.0	0.0	0.0
15°	978.3	203.2	67.7	20.5	1.6	0.0	0.0	0.0
17.5°	2032.2	255.2	59.9	14.2	0.0	0.0	0.0	0.0
20°	3245.2	332.4	47.3	7.9	0.0	0.0	0.0	0.0
21°	3744.6	359.2	42.5	6.3	0.0	0.0	0.0	0.0
22°	4103.8	384.4	37.8	4.7	0.0	0.0	0.0	0.0
23°	4499.2	400.1	33.1	3.2	0.0	0.0	0.0	0.0
24°	4790.6	409.6	28.4	3.2	0.0	0.0	0.0	0.0
25°	4971.8	409.6	25.2	3.2	0.0	0.0	0.0	0.0
26°	5078.9	400.1	22.1	1.6	0.0	0.0	0.0	0.0
27°	5104.1	384.4	18.9	1.6	0.0	0.0	0.0	0.0
28°	5072.6	363.9	15.8	0.0	0.0	0.0	0.0	0.0
29°	4973.4	334.0	14.2	0.0	0.0	0.0	0.0	0.0
30°	4866.2	302.5	11.0	0.0	0.0	0.0	0.0	0.0
31°	4683.5	259.9	9.5	0.0	0.0	0.0	0.0	0.0
32°	4472.4	215.8	7.9	0.0	0.0	0.0	0.0	0.0
33°	4190.4	170.1	6.3	0.0	0.0	0.0	0.0	0.0
34°	3774.5	133.9	6.3	0.0	0.0	0.0	0.0	0.0
35°	3401.2	108.7	4.7	0.0	0.0	0.0	0.0	0.0
36°	2912.8	86.6	4.7	0.0	0.0	0.0	0.0	0.0
37°	2495.3	72.5	4.7	0.0	0.0	0.0	0.0	0.0
38°	2088.9	61.4	3.2	0.0	0.0	0.0	0.0	0.0
39°	1695.1	53.6	3.2	0.0	0.0	0.0	0.0	0.0
40°	1351.6	47.3	3.2	0.0	0.0	0.0	0.0	0.0
42.5°	729.4	31.5	0.0	0.0	0.0	0.0	0.0	0.0
45°	403.3	20.5	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	178.0	11.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	59.9	4.7	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	29.9	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)