

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: P1316335

Luminaire Tested: P3SQAS17R159827DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1316335
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-47)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS17R159827DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R15 optic, 2700K CCT AND, 98CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

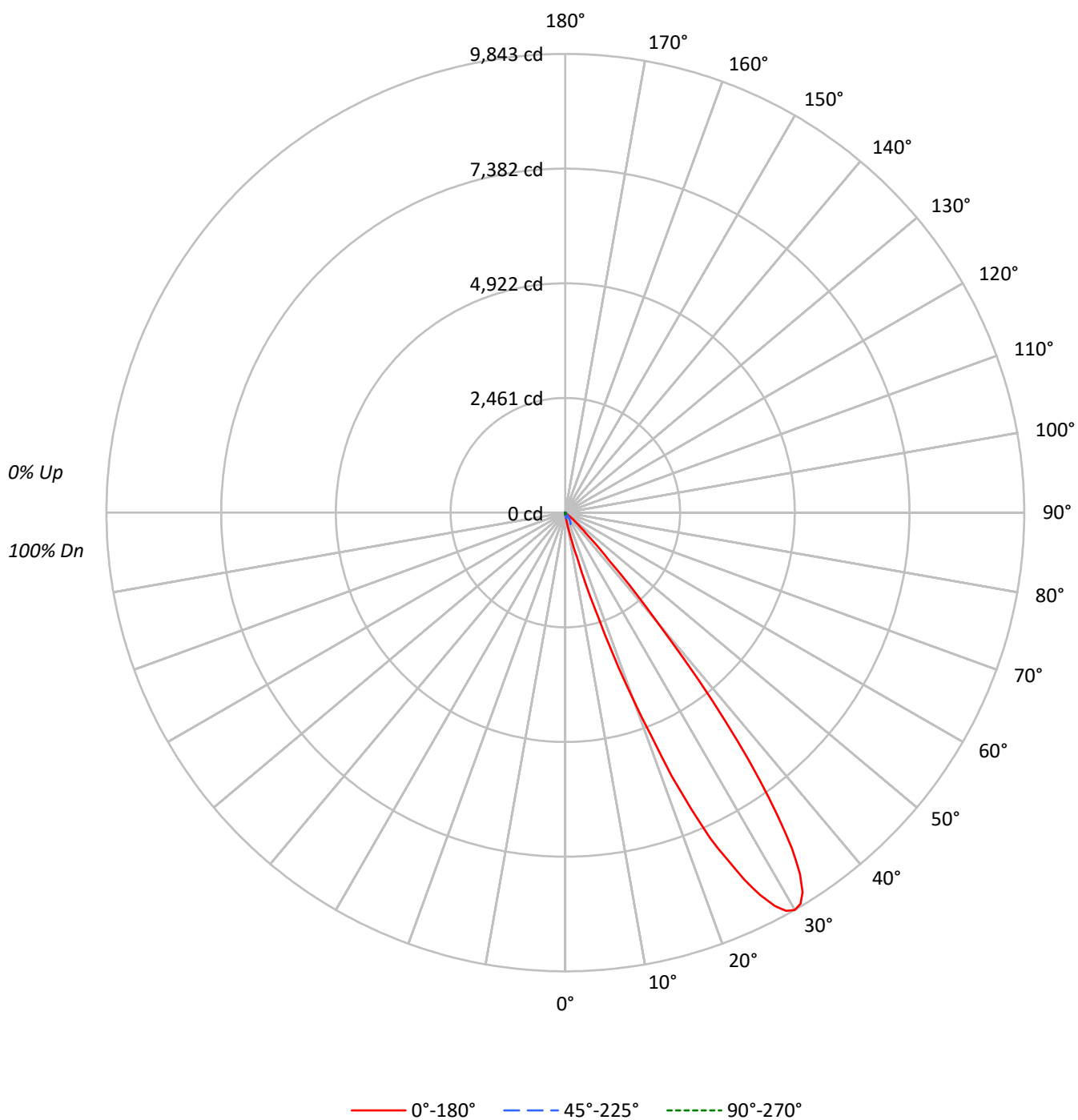
Lumens per Lamp: N/A
Luminaire Lumens: 1041.0 lumens
Efficiency: N/A
Efficacy: 51.0 lumens/watt
Spacing Criteria (0/90/45): 2.33 / 0.38 / 1.17
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 20.4
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: P1316335

CATALOG NUMBER: P3SQAS17R159827DE010 E3SQCA301MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1316335

CATALOG NUMBER: P3SQAS17R159827DE010 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	94	92		
2	106	100	96	92	104	99	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	79	74	70	77	73	70	68		
5	87	77	70	65	85	76	70	65	74	68	64	72	67	63	71	66	63	61		
6	81	71	63	58	79	70	63	58	68	62	58	67	61	57	65	60	57	55		
7	76	65	57	52	74	64	57	52	63	56	52	61	56	52	60	55	51	50		
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	46	45		
9	66	55	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	41		
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°	6407	6407	6407	6407	6407
5°	18550	14003	5480	2265	1521
10°	48249	20863	3637	0	0
15°	192829	34162	1943	0	0
20°	787865	50364	605	0	0
25°	1557420	49920	0	0	0
30°	1957494	39395	0	0	0
35°	1670186	24157	0	0	0
40°	687614	7621	0	0	0
45°	148766	3191	0	0	0
50°	19077	0	0	0	0
55°	1651	0	330	0	0
60°	0	0	758	0	0
65°	0	0	897	0	0
70°	0	554	1662	0	0
75°	0	732	2196	0	0
80°	0	1091	3273	0	0
85°	0	2174	6521	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2°

Vertical Angle: 45°

Luminance: 155708 cd/sqm

TEST NUMBER: P1316335

CATALOG NUMBER: P3SQAS17R159827DE010 E3SQCA301MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.0	0.5
10°-20°	73.0	7.0
20°-30°	425.2	40.8
30°-40°	455.9	43.8
40°-50°	76.9	7.4
50°-60°	2.3	0.2
60°-70°	0.7	0.1
70°-80°	1.0	0.1
80°-90°	0.9	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°	503.2	48.3
0°-40°	959.1	92.1
0°-60°	1038.4	99.7
0°-90°	1041.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1041.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	37	37	37	37	37	
5°	107	81	32	13	9	15
15°	1082	192	11	0	0	500
25°	8196	263	0	0	0	3708
35°	7944	115	0	0	0	4565
45°	611	13	0	0	0	722
55°	6	0	1	0	0	14
65°	0	0	2	0	0	0
75°	0	1	3	0	0	0
85°	0	1	3	0	0	0
90°	0	0	0	0	0	

TEST NUMBER: P1316335

CATALOG NUMBER: P3SQAS17R159827DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (FULL):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	37.2	37.2	37.2	37.2	37.2	37.2	37.2	37.2	37.2	37.2	37.2
2.5°	67.9	69.0	70.1	70.1	70.1	70.1	69.0	69.0	69.0	69.0	67.9
5°	107.3	107.3	107.3	107.3	107.3	107.3	106.2	106.2	106.2	106.2	106.2
7.5°	153.3	151.1	152.2	148.9	151.1	150.0	148.9	151.1	151.1	145.6	145.6
10°	275.9	274.8	263.8	266.0	268.2	267.1	267.1	260.5	259.4	255.1	250.7
12.5°	532.0	544.0	552.8	552.8	532.0	539.7	525.4	528.7	530.9	524.3	501.4
15°	1081.5	1101.2	1080.4	1100.1	1092.5	1064.0	1032.3	989.6	1006.0	976.4	966.6
17.5°	2368.9	2413.7	2395.1	2304.3	2333.8	2263.8	2220.0	2203.6	2157.6	2020.8	1963.8
20°	4298.8	4353.5	4302.0	4195.9	4229.8	4097.3	4063.4	4031.7	3828.1	3753.6	3515.0
21°	5111.0	5155.9	5175.6	5065.0	4997.2	4892.1	4804.5	4776.0	4652.3	4508.9	4263.7
22°	6091.8	6039.3	5921.1	5936.4	5835.7	5749.2	5627.7	5512.7	5374.8	5174.5	4972.0
23°	6904.1	6842.8	6786.9	6719.1	6610.7	6549.4	6375.3	6249.5	6069.9	5855.4	5660.5
24°	7660.5	7566.3	7531.3	7410.9	7380.3	7242.3	7101.1	6936.9	6720.2	6491.4	6275.7
25°	8195.8	8210.0	8179.4	8165.1	8008.6	7867.4	7727.3	7474.4	7289.4	7086.9	6755.2
26°	8769.4	8776.0	8760.6	8655.5	8514.3	8376.4	8195.8	7975.7	7707.6	7483.1	7183.2
27°	9208.3	9182.1	9160.2	9035.4	8919.4	8745.3	8581.1	8320.6	8058.9	7791.8	7443.7
28°	9558.6	9509.4	9482.0	9374.7	9239.0	9025.5	8824.1	8581.1	8319.5	8032.7	7656.1
29°	9769.9	9717.4	9686.7	9568.5	9412.0	9224.8	9021.2	8754.1	8472.7	8153.1	7774.3
30°	9843.3	9812.6	9764.4	9641.8	9479.8	9285.0	9075.9	8785.8	8491.3	8164.0	7763.4
31°	9795.1	9755.7	9709.7	9577.2	9402.1	9216.0	8973.0	8668.7	8358.9	8046.9	7622.2
32°	9603.5	9579.4	9523.6	9346.3	9204.0	8963.1	8723.4	8438.8	8100.5	7765.6	7381.3
33°	9244.5	9205.1	9156.9	8994.9	8813.2	8582.2	8343.6	8052.4	7716.3	7362.7	6940.2
34°	8697.1	8646.8	8586.6	8478.2	8246.1	8045.8	7770.0	7429.5	7151.5	6812.1	6430.1
35°	7944.0	7870.7	7798.4	7716.3	7455.8	7270.8	7084.7	6788.0	6519.8	6200.2	5767.8
36°	7098.9	7070.5	7011.3	6794.6	6710.3	6458.5	6308.6	5968.1	5751.4	5438.3	5081.4
37°	6143.3	5975.8	6061.2	5939.7	5685.7	5606.9	5428.5	5136.2	4901.9	4571.3	4313.0
38°	5118.7	5009.2	5069.4	4946.8	4814.3	4632.6	4496.9	4283.4	4020.7	3761.3	3516.1
39°	4056.8	3968.2	4033.9	3950.7	3749.2	3673.7	3553.3	3390.2	3178.9	2976.4	2744.3
40°	3058.5	2944.7	3032.2	2914.0	2822.1	2698.4	2637.1	2487.1	2355.7	2234.2	2086.4
42.5°	1396.8	1384.8	1365.1	1322.4	1312.5	1313.6	1238.1	1188.8	1122.0	1044.3	997.2
45°	610.8	626.2	639.3	615.2	614.1	601.0	596.6	563.8	550.6	525.4	494.8
47.5°	301.0	306.5	303.2	309.8	304.3	295.6	293.4	289.0	275.9	274.8	260.5
50°	71.2	70.1	70.1	71.2	70.1	70.1	69.0	66.8	65.7	66.8	63.5
52.5°	23.0	24.1	23.0	21.9	23.0	24.1	23.0	23.0	23.0	23.0	23.0
55°	5.5	5.5	5.5	5.5	5.5	5.5	4.4	4.4	5.5	5.5	5.5
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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: P1316335

CATALOG NUMBER: P3SQAS17R159827DE010 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: P1316335

CATALOG NUMBER: P3SQAS17R159827DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (continued):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	37.2	37.2	37.2	37.2	37.2	37.2	37.2	37.2
2.5°	66.8	56.9	47.1	37.2	27.4	21.9	20.8	19.7
5°	100.7	81.0	53.6	31.7	18.6	13.1	9.9	8.8
7.5°	135.7	100.7	59.1	26.3	13.1	5.5	2.2	1.1
10°	194.9	119.3	61.3	20.8	6.6	0.0	0.0	0.0
12.5°	382.0	136.8	60.2	16.4	1.1	0.0	0.0	0.0
15°	634.9	191.6	55.8	10.9	0.0	0.0	0.0	0.0
17.5°	1039.9	247.4	48.2	7.7	0.0	0.0	0.0	0.0
20°	1612.4	274.8	37.2	3.3	0.0	0.0	0.0	0.0
21°	1890.5	277.0	32.8	2.2	0.0	0.0	0.0	0.0
22°	2131.3	277.0	28.5	1.1	0.0	0.0	0.0	0.0
23°	2354.6	273.7	25.2	0.0	0.0	0.0	0.0	0.0
24°	2538.5	269.3	23.0	0.0	0.0	0.0	0.0	0.0
25°	2676.5	262.7	20.8	0.0	0.0	0.0	0.0	0.0
26°	2740.0	254.0	17.5	0.0	0.0	0.0	0.0	0.0
27°	2771.7	241.9	15.3	0.0	0.0	0.0	0.0	0.0
28°	2749.8	228.8	13.1	0.0	0.0	0.0	0.0	0.0
29°	2695.1	214.6	9.9	0.0	0.0	0.0	0.0	0.0
30°	2623.9	198.1	7.7	0.0	0.0	0.0	0.0	0.0
31°	2519.9	181.7	5.5	0.0	0.0	0.0	0.0	0.0
32°	2377.6	165.3	4.4	0.0	0.0	0.0	0.0	0.0
33°	2187.1	147.8	2.2	0.0	0.0	0.0	0.0	0.0
34°	1951.8	130.3	1.1	0.0	0.0	0.0	0.0	0.0
35°	1688.0	114.9	0.0	0.0	0.0	0.0	0.0	0.0
36°	1461.4	98.5	0.0	0.0	0.0	0.0	0.0	0.0
37°	1233.7	78.8	0.0	0.0	0.0	0.0	0.0	0.0
38°	1033.4	62.4	0.0	0.0	0.0	0.0	0.0	0.0
39°	854.9	50.4	0.0	0.0	0.0	0.0	0.0	0.0
40°	708.3	33.9	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	391.9	23.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	237.5	13.1	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	137.9	4.4	0.0	0.0	0.0	0.0	0.0	0.0
50°	52.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	17.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	4.4	0.0	0.0	1.1	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0
60°	0.0	0.0	1.1	2.2	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	1.1	2.2	1.1	0.0	0.0	0.0
65°	0.0	0.0	2.2	2.2	1.1	0.0	0.0	0.0
67.5°	0.0	0.0	2.2	3.3	1.1	0.0	0.0	0.0
70°	0.0	1.1	2.2	3.3	1.1	0.0	0.0	0.0
72.5°	0.0	1.1	2.2	3.3	1.1	0.0	0.0	0.0
75°	0.0	1.1	2.2	3.3	1.1	0.0	0.0	0.0
77.5°	0.0	1.1	2.2	3.3	1.1	0.0	0.0	0.0
80°	0.0	1.1	2.2	3.3	1.1	0.0	0.0	0.0



TEST NUMBER: P1316335

CATALOG NUMBER: P3SQAS17R159827DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (continued):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.0	1.1	2.2	3.3	1.1	0.0	0.0	0.0
85°	0.0	1.1	2.2	3.3	1.1	0.0	0.0	0.0
87.5°	0.0	1.1	2.2	3.3	1.1	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)