

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: P1313358

Luminaire Tested: P3SQAS13R159730DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1313358
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: P3SQAS13R159730DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R15 optic, 3000K CCT AND, 97CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

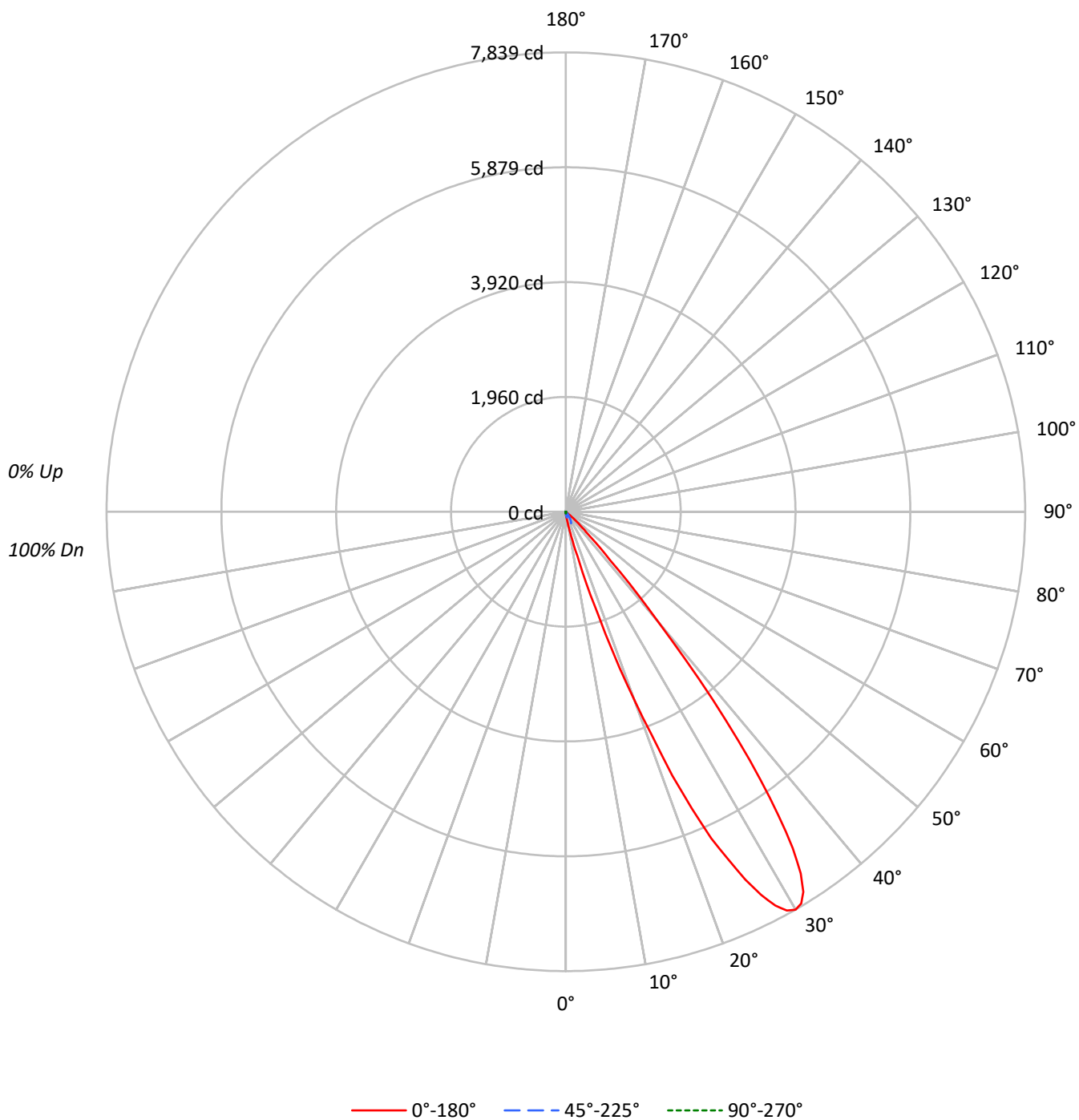
Lumens per Lamp: N/A
Luminaire Lumens: 829.0 lumens
Efficiency: N/A
Efficacy: 56.8 lumens/watt
Spacing Criteria (0/90/45): 2.33 / 0.38 / 1.17
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.6
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: P1313358

CATALOG NUMBER: P3SQAS13R159730DE010 E3SQCA301MMS

Luminous Intensity Polar Plot





TEST NUMBER: P1313358

CATALOG NUMBER: P3SQAS13R159730DE010 E3SQCA301MMS

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20
RC	80					70					50					30					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0			
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°	5098	5098	5098	5098	5098
5°	14764	11151	4374	1815	1210
10°	38421	16614	2903	0	0
15°	153568	27208	1551	0	0
20°	627407	40101	477	0	0
25°	1240247	39754	0	0	0
30°	1558848	31381	0	0	0
35°	1330052	19237	0	0	0
40°	547573	6070	0	0	0
45°	118467	2557	0	0	0
50°	15192	0	0	0	0
55°	1321	0	270	0	0
60°	0	0	586	0	0
65°	0	0	693	0	0
70°	0	453	1309	0	0
75°	0	599	1730	0	0
80°	0	893	2579	0	0
85°	0	1778	5138	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2°

Vertical Angle: 45°

Luminance: 123996 cd/sqm

TEST NUMBER: P1313358

CATALOG NUMBER: P3SQAS13R159730DE010 E3SQCA301MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.0	0.5
10°-20°	58.1	7.0
20°-30°	338.6	40.8
30°-40°	363.1	43.8
40°-50°	61.3	7.4
50°-60°	1.9	0.2
60°-70°	0.5	0.1
70°-80°	0.8	0.1
80°-90°	0.7	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°	400.7	48.3
0°-40°	763.8	92.1
0°-60°	826.9	99.7
0°-90°	829.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	829.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	30	30	30	30	30	
5°	85	64	25	10	7	12
15°	861	153	9	0	0	398
25°	6527	209	0	0	0	2953
35°	6326	92	0	0	0	3636
45°	486	10	0	0	0	575
55°	4	0	1	0	0	11
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: P1313358

CATALOG NUMBER: P3SQAS13R159730DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (FULL):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6
2.5°	54.0	54.9	55.8	55.8	55.8	55.8	54.9	54.9	54.9	54.9	54.0
5°	85.4	85.4	85.4	85.4	85.4	85.4	84.6	84.6	84.6	84.6	84.6
7.5°	122.0	120.3	121.2	118.6	120.3	119.4	118.6	120.3	120.3	115.9	115.9
10°	219.7	218.8	210.1	211.8	213.6	212.7	212.7	207.5	206.6	203.1	199.6
12.5°	423.7	433.3	440.2	440.2	423.7	429.8	418.4	421.0	422.8	417.6	399.3
15°	861.3	877.0	860.4	876.1	870.0	847.3	822.0	788.1	801.1	777.6	769.7
17.5°	1886.4	1922.2	1907.4	1835.0	1858.5	1802.8	1767.9	1754.8	1718.2	1609.2	1563.9
20°	3423.3	3466.9	3425.9	3341.4	3368.4	3262.9	3235.9	3210.6	3048.5	2989.2	2799.2
21°	4070.1	4105.9	4121.6	4033.5	3979.5	3895.8	3826.1	3803.4	3704.9	3590.7	3395.4
22°	4851.2	4809.4	4715.2	4727.4	4647.2	4578.4	4481.6	4390.1	4280.2	4120.7	3959.4
23°	5498.1	5449.2	5404.8	5350.7	5264.4	5215.6	5077.0	4976.8	4833.8	4662.9	4507.8
24°	6100.4	6025.5	5997.6	5901.7	5877.3	5767.4	5655.0	5524.2	5351.6	5169.4	4997.7
25°	6526.7	6538.0	6513.6	6502.3	6377.6	6265.2	6153.6	5952.2	5804.9	5643.6	5379.5
26°	6983.5	6988.7	6976.5	6892.8	6780.4	6670.5	6526.7	6351.5	6137.9	5959.2	5720.3
27°	7333.1	7312.1	7294.7	7195.3	7102.9	6964.3	6833.6	6626.1	6417.7	6205.0	5927.8
28°	7612.0	7572.8	7551.0	7465.6	7357.5	7187.5	7027.1	6833.6	6625.2	6396.8	6096.9
29°	7780.3	7738.4	7714.0	7619.9	7495.2	7346.1	7184.0	6971.3	6747.3	6492.7	6191.1
30°	7838.7	7814.3	7775.9	7678.3	7549.3	7394.1	7227.6	6996.6	6762.1	6501.4	6182.4
31°	7800.3	7768.9	7732.3	7626.8	7487.4	7339.2	7145.6	6903.3	6656.6	6408.1	6069.9
32°	7647.8	7628.6	7584.1	7442.9	7329.6	7137.8	6946.9	6720.2	6450.9	6184.1	5878.1
33°	7361.8	7330.4	7292.1	7163.1	7018.4	6834.4	6644.4	6412.5	6144.9	5863.3	5526.8
34°	6926.0	6885.9	6837.9	6751.6	6566.8	6407.3	6187.6	5916.5	5695.1	5424.8	5120.6
35°	6326.2	6267.8	6210.3	6144.9	5937.4	5790.1	5641.9	5405.6	5192.1	4937.5	4593.2
36°	5653.2	5630.6	5583.5	5410.9	5343.8	5143.3	5023.8	4752.7	4580.1	4330.8	4046.6
37°	4892.2	4758.8	4826.8	4730.1	4527.8	4465.0	4323.0	4090.2	3903.6	3640.4	3434.6
38°	4076.2	3989.1	4037.0	3939.4	3833.9	3689.2	3581.1	3411.1	3201.9	2995.3	2800.0
39°	3230.7	3160.1	3212.4	3146.1	2985.7	2925.6	2829.7	2699.8	2531.5	2370.3	2185.4
40°	2435.6	2345.0	2414.7	2320.6	2247.3	2148.8	2100.0	1980.6	1876.0	1779.2	1661.5
42.5°	1112.3	1102.7	1087.1	1053.1	1045.2	1046.1	985.9	946.7	893.5	831.6	794.2
45°	486.4	498.6	509.1	489.9	489.0	478.6	475.1	448.9	438.5	418.4	394.0
47.5°	239.7	244.1	241.5	246.7	242.3	235.4	233.6	230.1	219.7	218.8	207.5
50°	56.7	55.8	55.8	56.7	55.8	55.8	54.9	53.2	52.3	53.2	50.6
52.5°	18.3	19.2	18.3	17.4	18.3	19.2	18.3	18.3	18.3	18.3	18.3
55°	4.4	4.4	4.4	4.4	4.4	4.4	3.5	3.5	4.4	4.4	4.4
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: P1313358

CATALOG NUMBER: P3SQAS13R159730DE010 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: P1313358

CATALOG NUMBER: P3SQAS13R159730DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (continued):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6
2.5°	53.2	45.3	37.5	29.6	21.8	17.4	16.6	15.7
5°	80.2	64.5	42.7	25.3	14.8	10.5	7.8	7.0
7.5°	108.1	80.2	47.1	20.9	10.5	4.4	1.7	0.9
10°	155.2	95.0	48.8	16.6	5.2	0.0	0.0	0.0
12.5°	304.2	109.0	47.9	13.1	0.9	0.0	0.0	0.0
15°	505.6	152.6	44.5	8.7	0.0	0.0	0.0	0.0
17.5°	828.2	197.0	38.4	6.1	0.0	0.0	0.0	0.0
20°	1284.1	218.8	29.6	2.6	0.0	0.0	0.0	0.0
21°	1505.5	220.5	26.2	1.7	0.0	0.0	0.0	0.0
22°	1697.3	220.5	22.7	0.9	0.0	0.0	0.0	0.0
23°	1875.1	217.9	20.0	0.0	0.0	0.0	0.0	0.0
24°	2021.6	214.4	18.3	0.0	0.0	0.0	0.0	0.0
25°	2131.4	209.2	16.6	0.0	0.0	0.0	0.0	0.0
26°	2182.0	202.2	13.9	0.0	0.0	0.0	0.0	0.0
27°	2207.2	192.7	12.2	0.0	0.0	0.0	0.0	0.0
28°	2189.8	182.2	10.5	0.0	0.0	0.0	0.0	0.0
29°	2146.2	170.9	7.8	0.0	0.0	0.0	0.0	0.0
30°	2089.6	157.8	6.1	0.0	0.0	0.0	0.0	0.0
31°	2006.7	144.7	4.4	0.0	0.0	0.0	0.0	0.0
32°	1893.4	131.6	3.5	0.0	0.0	0.0	0.0	0.0
33°	1741.7	117.7	1.7	0.0	0.0	0.0	0.0	0.0
34°	1554.3	103.7	0.9	0.0	0.0	0.0	0.0	0.0
35°	1344.2	91.5	0.0	0.0	0.0	0.0	0.0	0.0
36°	1163.8	78.5	0.0	0.0	0.0	0.0	0.0	0.0
37°	982.4	62.8	0.0	0.0	0.0	0.0	0.0	0.0
38°	822.9	49.7	0.0	0.0	0.0	0.0	0.0	0.0
39°	680.8	40.1	0.0	0.0	0.0	0.0	0.0	0.0
40°	564.0	27.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	312.1	18.3	0.0	0.0	0.0	0.0	0.0	0.0
45°	189.2	10.5	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	109.8	3.5	0.0	0.0	0.0	0.0	0.0	0.0
50°	41.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	13.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	3.5	0.0	0.0	0.9	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.9	1.7	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.9	1.7	0.9	0.0	0.0	0.0
65°	0.0	0.0	1.7	1.7	0.9	0.0	0.0	0.0
67.5°	0.0	0.0	1.7	2.6	0.9	0.0	0.0	0.0
70°	0.0	0.9	1.7	2.6	0.9	0.0	0.0	0.0
72.5°	0.0	0.9	1.7	2.6	0.9	0.0	0.0	0.0
75°	0.0	0.9	1.7	2.6	0.9	0.0	0.0	0.0
77.5°	0.0	0.9	1.7	2.6	0.9	0.0	0.0	0.0
80°	0.0	0.9	1.7	2.6	0.9	0.0	0.0	0.0



TEST NUMBER: P1313358

CATALOG NUMBER: P3SQAS13R159730DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (continued):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.0	0.9	1.7	2.6	0.9	0.0	0.0	0.0
85°	0.0	0.9	1.7	2.6	0.9	0.0	0.0	0.0
87.5°	0.0	0.9	1.7	2.6	0.9	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)