

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: P1306168

Luminaire Tested: P3SQAS20R159024D010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1306168
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: P3SQAS20R159024D010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R15 optic, 2400K CCT AND, 90CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

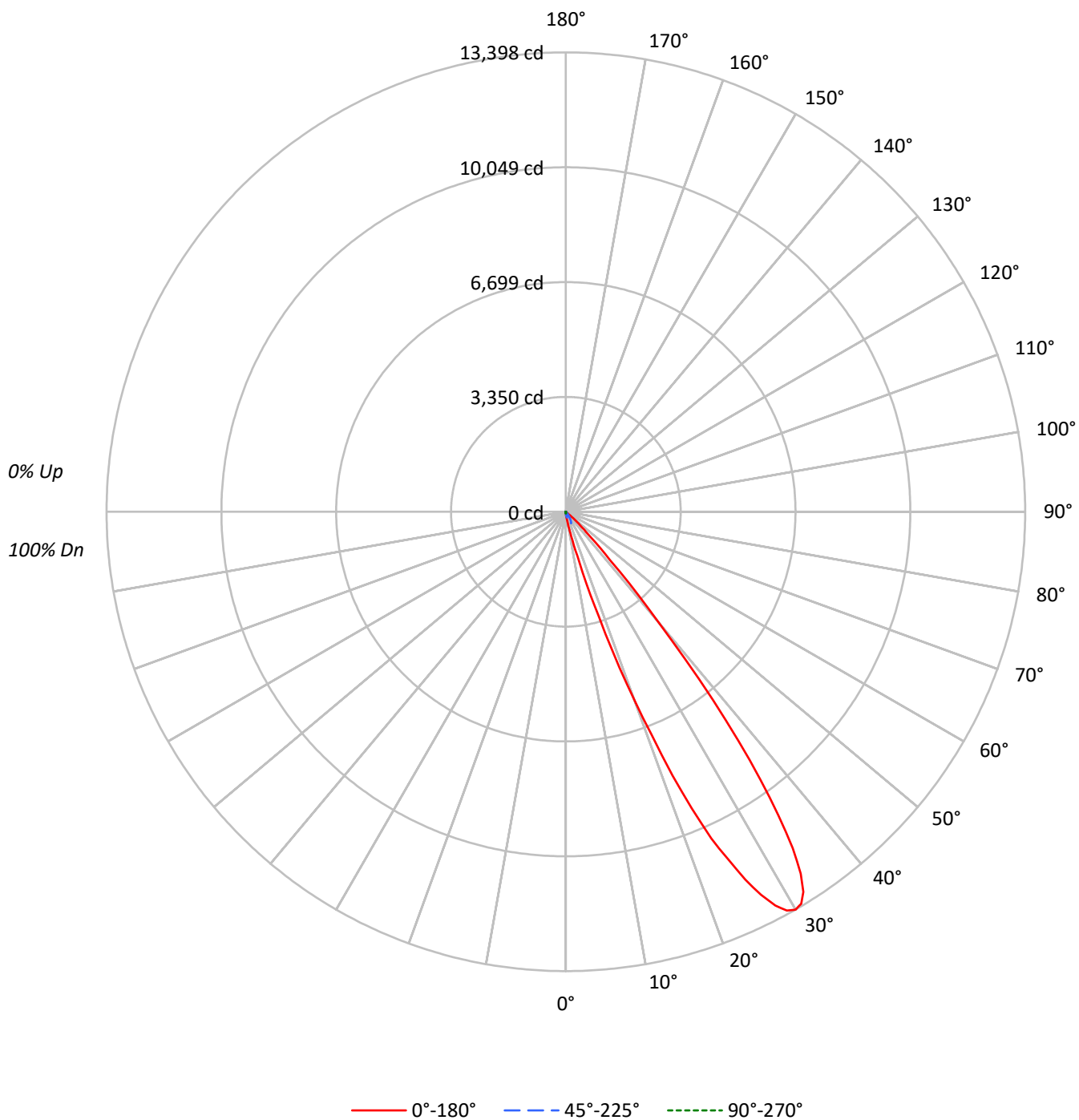
Lumens per Lamp: N/A
Luminaire Lumens: 1417.0 lumens
Efficiency: N/A
Efficacy: 49.2 lumens/watt
Spacing Criteria (0/90/45): 2.33 / 0.38 / 1.17
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P1306168

CATALOG NUMBER: P3SQAS20R159024D010 E3SQCA301MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1306168

CATALOG NUMBER: P3SQAS20R159024D010 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°	8732	8732	8732	8732	8732
5°	25241	19069	7468	3095	2057
10°	65667	28400	4949	0	0
15°	262490	46500	2657	0	0
20°	1072418	68545	825	0	0
25°	2119937	67954	0	0	0
30°	2664500	53634	0	0	0
35°	2273443	32903	0	0	0
40°	935973	10387	0	0	0
45°	202495	4360	0	0	0
50°	25963	0	0	0	0
55°	2252	0	450	0	0
60°	0	0	1033	0	0
65°	0	0	1223	0	0
70°	0	755	2266	0	0
75°	0	998	2994	0	0
80°	0	1488	4463	0	0
85°	0	2964	8892	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2°

Vertical Angle: 45°

Luminance: 211946 cd/sqm

TEST NUMBER: P1306168

CATALOG NUMBER: P3SQAS20R159024D010 E3SQCA301MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.8	0.5
10°-20°	99.3	7.0
20°-30°	578.8	40.8
30°-40°	620.6	43.8
40°-50°	104.7	7.4
50°-60°	3.2	0.2
60°-70°	0.9	0.1
70°-80°	1.4	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°	684.9	48.3
0°-40°	1305.5	92.1
0°-60°	1413.5	99.7
0°-90°	1417.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1417.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	51	51	51	51	51	
5°	146	110	43	18	12	20
15°	1472	261	15	0	0	681
25°	11156	358	0	0	0	5047
35°	10813	156	0	0	0	6214
45°	831	18	0	0	0	982
55°	8	0	2	0	0	19
65°	0	0	3	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: P1306168

CATALOG NUMBER: P3SQAS20R159024D010 E3SQCA301MMS

CANDELA DISTRIBUTION (FULL):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7
2.5°	92.4	93.9	95.4	95.4	95.4	95.4	93.9	93.9	93.9	93.9	92.4
5°	146.0	146.0	146.0	146.0	146.0	146.0	144.5	144.5	144.5	144.5	144.5
7.5°	208.6	205.6	207.1	202.6	205.6	204.1	202.6	205.6	205.6	198.2	198.2
10°	375.5	374.0	359.1	362.1	365.1	363.6	363.6	354.6	353.1	347.2	341.2
12.5°	724.2	740.6	752.5	752.5	724.2	734.6	715.2	719.7	722.7	713.7	682.4
15°	1472.2	1499.0	1470.7	1497.5	1487.1	1448.3	1405.1	1347.0	1369.4	1329.1	1315.7
17.5°	3224.5	3285.6	3260.2	3136.6	3176.8	3081.4	3021.8	2999.5	2936.9	2750.6	2673.2
20°	5851.4	5925.9	5855.9	5711.4	5757.6	5577.3	5531.1	5487.9	5210.7	5109.4	4784.6
21°	6957.1	7018.1	7045.0	6894.5	6802.1	6659.0	6539.8	6501.1	6332.7	6137.5	5803.8
22°	8292.1	8220.6	8059.7	8080.6	7943.5	7825.8	7660.4	7503.9	7316.2	7043.5	6767.8
23°	9397.8	9314.3	9238.3	9145.9	8998.4	8915.0	8678.1	8506.7	8262.3	7970.3	7705.1
24°	10427.4	10299.2	10251.6	10087.7	10045.9	9858.2	9666.0	9442.5	9147.4	8836.0	8542.5
25°	11156.0	11175.4	11133.7	11114.3	10901.2	10709.0	10518.3	10174.1	9922.3	9646.6	9195.1
26°	11936.8	11945.7	11924.9	11781.8	11589.6	11401.9	11156.0	10856.5	10491.5	10186.0	9777.7
27°	12534.3	12498.6	12468.8	12298.9	12140.9	11904.0	11680.5	11325.9	10969.8	10606.2	10132.4
28°	13011.1	12944.1	12906.8	12760.8	12576.0	12285.5	12011.3	11680.5	11324.4	10934.0	10421.4
29°	13298.7	13227.2	13185.5	13024.5	12811.5	12556.7	12279.5	11915.9	11533.0	11097.9	10582.4
30°	13398.5	13356.8	13291.3	13124.4	12903.9	12638.6	12354.0	11959.2	11558.3	11112.8	10567.5
31°	13333.0	13279.3	13216.8	13036.5	12798.1	12544.7	12214.0	11799.7	11378.0	10953.4	10375.2
32°	13072.2	13039.4	12963.5	12722.1	12528.4	12200.5	11874.2	11486.8	11026.4	10570.4	10047.4
33°	12583.5	12529.8	12464.3	12243.8	11996.4	11682.0	11357.2	10960.8	10503.4	10022.1	9446.9
34°	11838.5	11769.9	11688.0	11540.5	11224.6	10951.9	10576.4	10113.0	9734.5	9272.6	8752.6
35°	10813.3	10713.5	10615.1	10503.4	10148.7	9896.9	9643.6	9239.8	8874.8	8439.7	7851.1
36°	9663.0	9624.2	9543.8	9248.8	9134.0	8791.3	8587.2	8123.8	7828.7	7402.6	6916.8
37°	8362.2	8134.2	8250.4	8085.0	7739.3	7632.0	7389.2	6991.3	6672.5	6222.5	5870.8
38°	6967.5	6818.5	6900.4	6733.5	6553.2	6305.9	6121.1	5830.6	5473.0	5119.8	4786.0
39°	5522.1	5401.4	5490.8	5377.6	5103.4	5000.6	4836.7	4614.7	4327.1	4051.5	3735.6
40°	4163.2	4008.2	4127.4	3966.5	3841.4	3673.0	3589.5	3385.4	3206.6	3041.2	2840.0
42.5°	1901.3	1884.9	1858.1	1800.0	1786.6	1788.1	1685.2	1618.2	1527.3	1421.5	1357.4
45°	831.4	852.3	870.2	837.4	835.9	818.0	812.1	767.4	749.5	715.2	673.5
47.5°	409.8	417.2	412.7	421.7	414.2	402.3	399.3	393.4	375.5	374.0	354.6
50°	96.9	95.4	95.4	96.9	95.4	95.4	93.9	90.9	89.4	90.9	86.4
52.5°	31.3	32.8	31.3	29.8	31.3	32.8	31.3	31.3	31.3	31.3	31.3
55°	7.5	7.5	7.5	7.5	7.5	7.5	6.0	6.0	7.5	7.5	7.5
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: P1306168

CATALOG NUMBER: P3SQAS20R159024D010 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: P1306168

CATALOG NUMBER: P3SQAS20R159024D010 E3SQCA301MMS

CANDELA DISTRIBUTION (continued):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7
2.5°	90.9	77.5	64.1	50.7	37.3	29.8	28.3	26.8
5°	137.1	110.3	73.0	43.2	25.3	17.9	13.4	11.9
7.5°	184.8	137.1	80.5	35.8	17.9	7.5	3.0	1.5
10°	265.2	162.4	83.4	28.3	8.9	0.0	0.0	0.0
12.5°	520.0	186.3	82.0	22.4	1.5	0.0	0.0	0.0
15°	864.2	260.8	76.0	14.9	0.0	0.0	0.0	0.0
17.5°	1415.5	336.8	65.6	10.4	0.0	0.0	0.0	0.0
20°	2194.8	374.0	50.7	4.5	0.0	0.0	0.0	0.0
21°	2573.3	377.0	44.7	3.0	0.0	0.0	0.0	0.0
22°	2901.1	377.0	38.7	1.5	0.0	0.0	0.0	0.0
23°	3205.1	372.5	34.3	0.0	0.0	0.0	0.0	0.0
24°	3455.4	366.6	31.3	0.0	0.0	0.0	0.0	0.0
25°	3643.2	357.6	28.3	0.0	0.0	0.0	0.0	0.0
26°	3729.6	345.7	23.8	0.0	0.0	0.0	0.0	0.0
27°	3772.8	329.3	20.9	0.0	0.0	0.0	0.0	0.0
28°	3743.0	311.4	17.9	0.0	0.0	0.0	0.0	0.0
29°	3668.5	292.1	13.4	0.0	0.0	0.0	0.0	0.0
30°	3571.7	269.7	10.4	0.0	0.0	0.0	0.0	0.0
31°	3430.1	247.3	7.5	0.0	0.0	0.0	0.0	0.0
32°	3236.4	225.0	6.0	0.0	0.0	0.0	0.0	0.0
33°	2977.1	201.2	3.0	0.0	0.0	0.0	0.0	0.0
34°	2656.8	177.3	1.5	0.0	0.0	0.0	0.0	0.0
35°	2297.7	156.5	0.0	0.0	0.0	0.0	0.0	0.0
36°	1989.2	134.1	0.0	0.0	0.0	0.0	0.0	0.0
37°	1679.3	107.3	0.0	0.0	0.0	0.0	0.0	0.0
38°	1406.6	84.9	0.0	0.0	0.0	0.0	0.0	0.0
39°	1163.7	68.5	0.0	0.0	0.0	0.0	0.0	0.0
40°	964.1	46.2	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	533.4	31.3	0.0	0.0	0.0	0.0	0.0	0.0
45°	323.3	17.9	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	187.7	6.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	71.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	23.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	6.0	0.0	0.0	1.5	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	1.5	0.0	0.0	0.0	0.0
60°	0.0	0.0	1.5	3.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	1.5	3.0	1.5	0.0	0.0	0.0
65°	0.0	0.0	3.0	3.0	1.5	0.0	0.0	0.0
67.5°	0.0	0.0	3.0	4.5	1.5	0.0	0.0	0.0
70°	0.0	1.5	3.0	4.5	1.5	0.0	0.0	0.0
72.5°	0.0	1.5	3.0	4.5	1.5	0.0	0.0	0.0
75°	0.0	1.5	3.0	4.5	1.5	0.0	0.0	0.0
77.5°	0.0	1.5	3.0	4.5	1.5	0.0	0.0	0.0
80°	0.0	1.5	3.0	4.5	1.5	0.0	0.0	0.0



TEST NUMBER: P1306168

CATALOG NUMBER: P3SQAS20R159024D010 E3SQCA301MMS

CANDELA DISTRIBUTION (continued):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.0	1.5	3.0	4.5	1.5	0.0	0.0	0.0
85°	0.0	1.5	3.0	4.5	1.5	0.0	0.0	0.0
87.5°	0.0	1.5	3.0	4.5	1.5	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)