

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: P1317940

Luminaire Tested: P3SQAS13R159835DE010 E3SQCA301MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1317940
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: P3SQAS13R159835DE010 E3SQCA301MB
Description: 3in Adjustable LED luminaire with, R15 optic, 3500K CCT AND, 98CRI , E3SQCA301MB TRIM
Light Source: -
Ballast/Driver: -

Summary

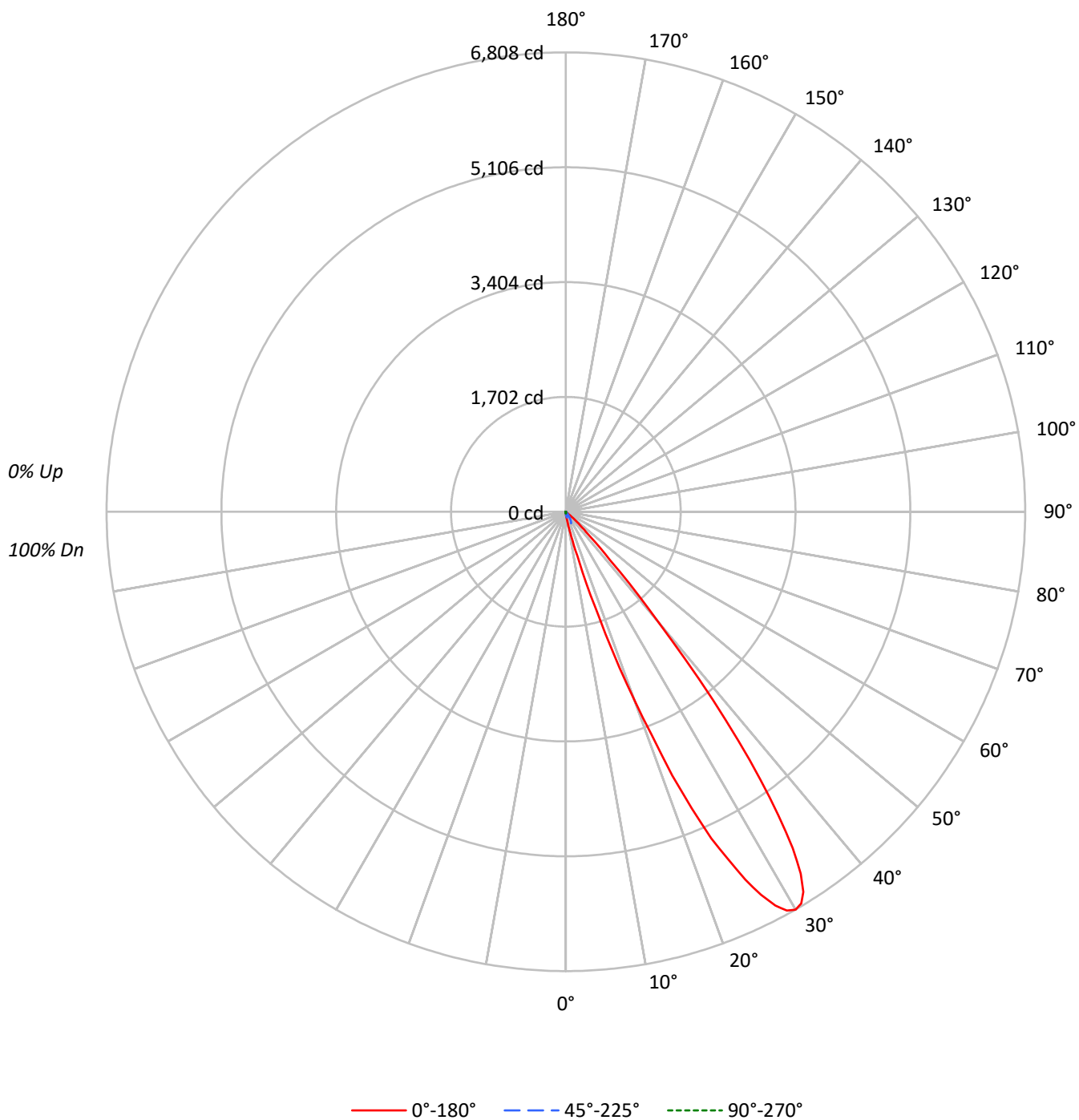
Lumens per Lamp: N/A
Luminaire Lumens: 720.0 lumens
Efficiency: N/A
Efficacy: 49.7 lumens/watt
Spacing Criteria (0/90/45): 2.33 / 0.38 / 1.17
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.5
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: P1317940

CATALOG NUMBER: P3SQAS13R159835DE010 E3SQCA301MB

Luminous Intensity Polar Plot



TEST NUMBER: P1317940

CATALOG NUMBER: P3SQAS13R159835DE010 E3SQCA301MB

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	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°	4426	4426	4426	4426	4426
5°	12828	9681	3803	1573	1055
10°	33367	14428	2518	0	0
15°	133367	23624	1355	0	0
20°	544915	34822	422	0	0
25°	1077166	34528	0	0	0
30°	1353877	27245	0	0	0
35°	1155170	16714	0	0	0
40°	475586	5283	0	0	0
45°	102904	2216	0	0	0
50°	13182	0	0	0	0
55°	1141	0	240	0	0
60°	0	0	517	0	0
65°	0	0	611	0	0
70°	0	403	1158	0	0
75°	0	532	1530	0	0
80°	0	793	2281	0	0
85°	0	1581	4545	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2°

Vertical Angle: 45°

Luminance: 107702 cd/sqm

TEST NUMBER: P1317940

CATALOG NUMBER: P3SQAS13R159835DE010 E3SQCA301MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.5	0.5
10°-20°	50.5	7.0
20°-30°	294.1	40.8
30°-40°	315.3	43.8
40°-50°	53.2	7.4
50°-60°	1.6	0.2
60°-70°	0.5	0.1
70°-80°	0.7	0.1
80°-90°	0.6	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°	348.0	48.3
0°-40°	663.4	92.1
0°-60°	718.2	99.7
0°-90°	720.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	720.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	26	26	26	26	26	
5°	74	56	22	9	6	10
15°	748	132	8	0	0	346
25°	5668	182	0	0	0	2565
35°	5494	80	0	0	0	3158
45°	422	9	0	0	0	499
55°	4	0	1	0	0	10
65°	0	0	2	0	0	0
75°	0	1	2	0	0	0
85°	0	1	2	0	0	0
90°	0	0	0	0	0	

TEST NUMBER: P1317940

CATALOG NUMBER: P3SQAS13R159835DE010 E3SQCA301MB

CANDELA DISTRIBUTION (FULL):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7
2.5°	46.9	47.7	48.5	48.5	48.5	48.5	47.7	47.7	47.7	47.7	46.9
5°	74.2	74.2	74.2	74.2	74.2	74.2	73.4	73.4	73.4	73.4	73.4
7.5°	106.0	104.5	105.2	103.0	104.5	103.7	103.0	104.5	104.5	100.7	100.7
10°	190.8	190.0	182.5	184.0	185.5	184.7	184.7	180.2	179.4	176.4	173.4
12.5°	368.0	376.3	382.3	382.3	368.0	373.3	363.4	365.7	367.2	362.7	346.8
15°	748.0	761.7	747.3	760.9	755.6	735.9	714.0	684.4	695.8	675.4	668.5
17.5°	1638.4	1669.4	1656.6	1593.7	1614.2	1565.7	1535.4	1524.1	1492.3	1397.6	1358.3
20°	2973.2	3011.1	2975.5	2902.0	2925.5	2833.9	2810.4	2788.5	2647.6	2596.2	2431.1
21°	3535.0	3566.0	3579.7	3503.2	3456.2	3383.6	3323.0	3303.3	3217.8	3118.6	2949.0
22°	4213.4	4177.0	4095.3	4105.9	4036.2	3976.4	3892.3	3812.9	3717.5	3578.9	3438.8
23°	4775.1	4732.8	4694.1	4647.2	4572.2	4529.8	4409.5	4322.4	4198.2	4049.8	3915.1
24°	5298.3	5233.2	5209.0	5125.7	5104.5	5009.1	4911.4	4797.9	4648.0	4489.7	4340.6
25°	5668.5	5678.4	5657.2	5647.4	5539.1	5441.4	5344.5	5169.6	5041.7	4901.6	4672.2
26°	6065.3	6069.8	6059.2	5986.5	5888.9	5793.5	5668.5	5516.4	5330.9	5175.7	4968.2
27°	6368.9	6350.7	6335.6	6249.3	6169.0	6048.6	5935.1	5754.9	5573.9	5389.2	5148.4
28°	6611.2	6577.1	6558.2	6484.0	6390.1	6242.4	6103.1	5935.1	5754.1	5555.7	5295.3
29°	6757.3	6720.9	6699.7	6618.0	6509.7	6380.2	6239.4	6054.7	5860.1	5639.0	5377.1
30°	6808.0	6786.8	6753.5	6668.7	6556.7	6421.9	6277.3	6076.6	5873.0	5646.6	5369.5
31°	6774.7	6747.4	6715.6	6624.0	6502.9	6374.2	6206.1	5995.6	5781.4	5565.6	5271.8
32°	6642.2	6625.5	6586.9	6464.3	6365.9	6199.3	6033.5	5836.6	5602.7	5371.0	5105.3
33°	6393.9	6366.6	6333.3	6221.2	6095.6	5935.8	5770.8	5569.4	5336.9	5092.4	4800.1
34°	6015.3	5980.5	5938.8	5863.9	5703.4	5564.8	5374.0	5138.6	4946.3	4711.6	4447.3
35°	5494.4	5443.7	5393.7	5336.9	5156.7	5028.8	4900.1	4694.9	4509.4	4288.3	3989.3
36°	4909.9	4890.2	4849.3	4699.4	4641.1	4467.0	4363.3	4127.8	3977.9	3761.4	3514.5
37°	4249.0	4133.1	4192.2	4108.1	3932.5	3878.0	3754.6	3552.4	3390.4	3161.7	2983.0
38°	3540.3	3464.6	3506.2	3421.4	3329.8	3204.1	3110.2	2962.6	2780.9	2601.5	2431.9
39°	2805.9	2744.6	2790.0	2732.4	2593.1	2540.9	2457.6	2344.8	2198.7	2058.6	1898.1
40°	2115.4	2036.7	2097.2	2015.5	1951.9	1866.3	1823.9	1720.2	1629.3	1545.3	1443.1
42.5°	966.1	957.8	944.1	914.6	907.8	908.5	856.3	822.2	776.0	722.3	689.7
45°	422.5	433.1	442.2	425.5	424.7	415.7	412.6	389.9	380.8	363.4	342.2
47.5°	208.2	212.0	209.7	214.3	210.5	204.4	202.9	199.9	190.8	190.0	180.2
50°	49.2	48.5	48.5	49.2	48.5	48.5	47.7	46.2	45.4	46.2	43.9
52.5°	15.9	16.7	15.9	15.1	15.9	16.7	15.9	15.9	15.9	15.9	15.9
55°	3.8	3.8	3.8	3.8	3.8	3.8	3.0	3.0	3.8	3.8	3.8
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: P1317940

CATALOG NUMBER: P3SQAS13R159835DE010 E3SQCA301MB

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: P1317940

CATALOG NUMBER: P3SQAS13R159835DE010 E3SQCA301MB

CANDELA DISTRIBUTION (continued):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7
2.5°	46.2	39.4	32.6	25.7	18.9	15.1	14.4	13.6
5°	69.7	56.0	37.1	22.0	12.9	9.1	6.8	6.1
7.5°	93.9	69.7	40.9	18.2	9.1	3.8	1.5	0.8
10°	134.8	82.5	42.4	14.4	4.5	0.0	0.0	0.0
12.5°	264.2	94.6	41.6	11.4	0.8	0.0	0.0	0.0
15°	439.1	132.5	38.6	7.6	0.0	0.0	0.0	0.0
17.5°	719.3	171.1	33.3	5.3	0.0	0.0	0.0	0.0
20°	1115.2	190.0	25.7	2.3	0.0	0.0	0.0	0.0
21°	1307.5	191.6	22.7	1.5	0.0	0.0	0.0	0.0
22°	1474.1	191.6	19.7	0.8	0.0	0.0	0.0	0.0
23°	1628.6	189.3	17.4	0.0	0.0	0.0	0.0	0.0
24°	1755.8	186.3	15.9	0.0	0.0	0.0	0.0	0.0
25°	1851.2	181.7	14.4	0.0	0.0	0.0	0.0	0.0
26°	1895.1	175.7	12.1	0.0	0.0	0.0	0.0	0.0
27°	1917.0	167.3	10.6	0.0	0.0	0.0	0.0	0.0
28°	1901.9	158.2	9.1	0.0	0.0	0.0	0.0	0.0
29°	1864.0	148.4	6.8	0.0	0.0	0.0	0.0	0.0
30°	1814.8	137.0	5.3	0.0	0.0	0.0	0.0	0.0
31°	1742.9	125.7	3.8	0.0	0.0	0.0	0.0	0.0
32°	1644.5	114.3	3.0	0.0	0.0	0.0	0.0	0.0
33°	1512.7	102.2	1.5	0.0	0.0	0.0	0.0	0.0
34°	1349.9	90.1	0.8	0.0	0.0	0.0	0.0	0.0
35°	1167.5	79.5	0.0	0.0	0.0	0.0	0.0	0.0
36°	1010.8	68.1	0.0	0.0	0.0	0.0	0.0	0.0
37°	853.3	54.5	0.0	0.0	0.0	0.0	0.0	0.0
38°	714.7	43.2	0.0	0.0	0.0	0.0	0.0	0.0
39°	591.3	34.8	0.0	0.0	0.0	0.0	0.0	0.0
40°	489.9	23.5	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	271.0	15.9	0.0	0.0	0.0	0.0	0.0	0.0
45°	164.3	9.1	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	95.4	3.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	36.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	12.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	3.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.8	1.5	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.8	1.5	0.8	0.0	0.0	0.0
65°	0.0	0.0	1.5	1.5	0.8	0.0	0.0	0.0
67.5°	0.0	0.0	1.5	2.3	0.8	0.0	0.0	0.0
70°	0.0	0.8	1.5	2.3	0.8	0.0	0.0	0.0
72.5°	0.0	0.8	1.5	2.3	0.8	0.0	0.0	0.0
75°	0.0	0.8	1.5	2.3	0.8	0.0	0.0	0.0
77.5°	0.0	0.8	1.5	2.3	0.8	0.0	0.0	0.0
80°	0.0	0.8	1.5	2.3	0.8	0.0	0.0	0.0



TEST NUMBER: P1317940

CATALOG NUMBER: P3SQAS13R159835DE010 E3SQCA301MB

CANDELA DISTRIBUTION (continued):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.0	0.8	1.5	2.3	0.8	0.0	0.0	0.0
85°	0.0	0.8	1.5	2.3	0.8	0.0	0.0	0.0
87.5°	0.0	0.8	1.5	2.3	0.8	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)