

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: P1318138

Luminaire Tested: P3SQAS17R309835DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1318138
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-76)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS17R309835DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R30 optic, 3500K CCT AND, 98CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

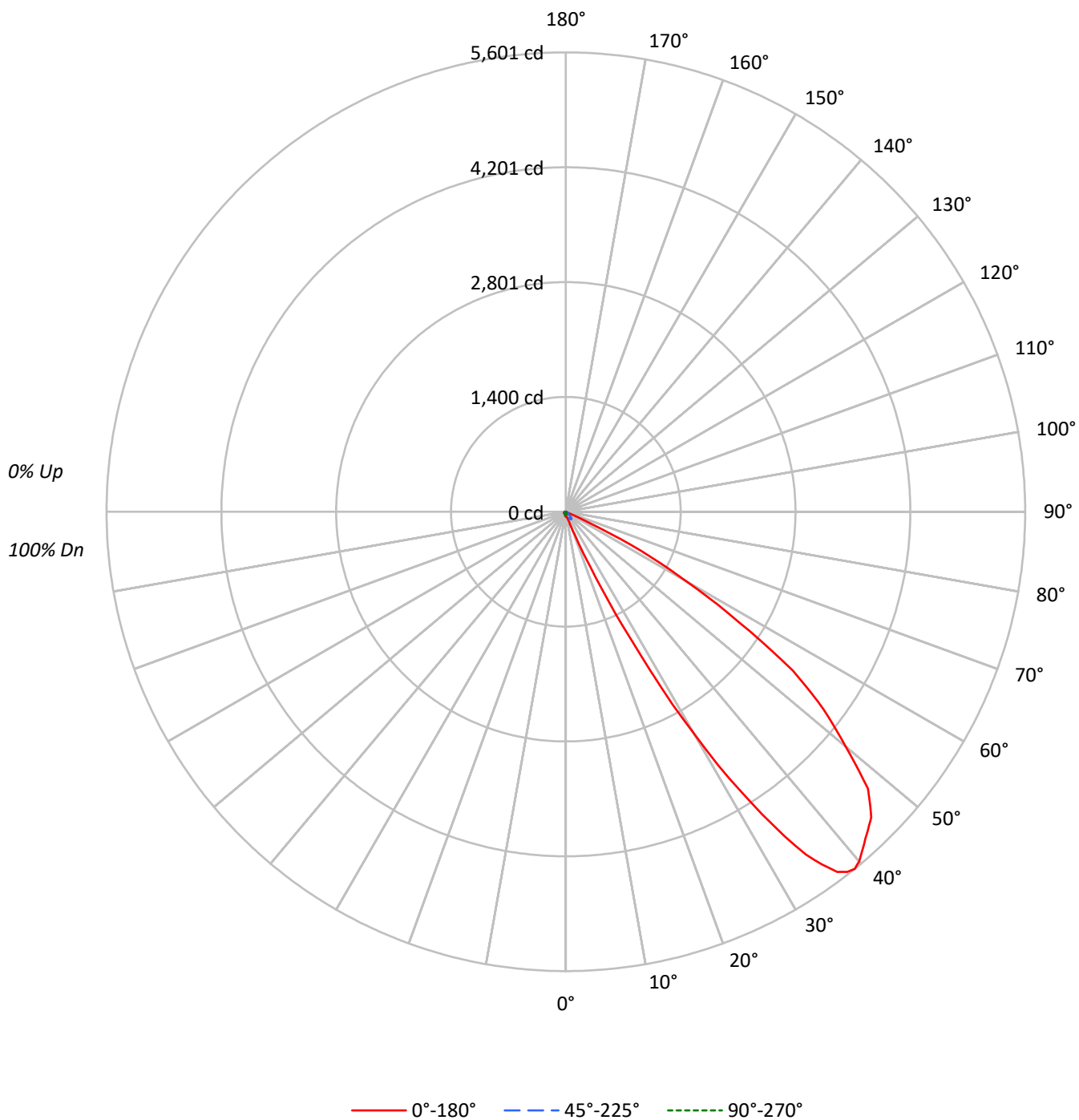
Lumens per Lamp: N/A
Luminaire Lumens: 1456.0 lumens
Efficiency: N/A
Efficacy: 71.4 lumens/watt
Spacing Criteria (0/90/45): 4.07 / 0.66 / 1.44
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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: P1318138

CATALOG NUMBER: P3SQAS17R309835DE010 E3SQCA451MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1318138

CATALOG NUMBER: P3SQAS17R309835DE010 E3SQCA451MMS

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	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87		
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73		
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61		
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	52	50		
5	75	62	52	46	73	60	52	45	58	51	45	56	50	44	54	49	44	42		
6	68	54	45	38	66	53	44	38	51	43	37	49	42	37	48	42	37	35		
7	62	48	38	32	60	47	38	32	45	37	31	44	36	31	42	36	31	29		
8	56	42	33	27	55	41	33	27	40	32	26	39	32	26	37	31	26	24		
9	52	37	29	23	50	37	28	23	36	28	22	34	27	22	33	27	22	20		
10	48	33	25	19	46	33	25	19	32	24	19	31	24	19	30	24	19	17		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	9713	9713	9713	9713	9713
5°	10390	10183	9543	8696	8488
10°	11367	10073	8359	7502	7292
15°	16617	10056	6989	6347	6561
20°	41805	11015	5388	5388	6066
25°	194150	13758	4200	4903	5587
30°	618054	19031	3162	4634	5608
35°	1072439	23211	2586	4394	5677
40°	1250745	23157	1933	4406	5800
45°	1282707	16440	2095	4774	6284
50°	1192855	9190	1634	4930	7234
55°	1013831	4774	1832	5525	8107
60°	585523	1274	2101	5924	8887
65°	119442	0	2486	7009	9984
70°	1863	604	3072	8006	11733
75°	1664	799	3261	8185	13907
80°	1190	1190	4860	9720	15769
85°	0	2371	9683	9683	19365

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1282707 cd/sqm

TEST NUMBER: P1318138

CATALOG NUMBER: P3SQAS17R309835DE010 E3SQCA451MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.1	0.4
10°-20°	14.7	1.0
20°-30°	84.0	5.8
30°-40°	392.2	26.9
40°-50°	554.6	38.1
50°-60°	341.2	23.4
60°-70°	52.0	3.6
70°-80°	8.2	0.6
80°-90°	4.1	0.3
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°	103.7	7.1
0°-40°	495.9	34.1
0°-60°	1391.7	95.6
0°-90°	1456.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1456.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	56	56	56	56	56	
5°	60	59	55	50	49	6
15°	93	56	39	36	37	33
25°	1022	72	22	26	29	629
35°	5101	110	12	21	27	3061
45°	5266	68	9	20	26	3993
55°	3376	16	6	18	27	2873
65°	293	0	6	17	24	530
75°	2	1	5	12	21	3
85°	0	1	5	5	10	0
90°	0	0	0	0	0	

TEST NUMBER: P1318138

CATALOG NUMBER: P3SQAS17R309835DE010 E3SQCA451MMS

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4
2.5°	57.6	57.6	58.9	58.9	57.6	58.9	58.9	58.9	56.4	55.2	52.7
5°	60.1	60.1	60.1	61.3	60.1	60.1	58.9	57.6	55.2	51.5	50.3
7.5°	62.6	62.6	61.3	62.6	61.3	61.3	58.9	56.4	52.7	49.1	46.6
10°	65.0	65.0	63.8	63.8	62.6	62.6	57.6	54.0	47.8	44.2	42.9
12.5°	72.4	72.4	71.1	69.9	67.5	66.2	56.4	50.3	42.9	39.2	38.0
15°	93.2	92.0	89.5	85.9	79.7	78.5	56.4	46.6	39.2	35.6	35.6
17.5°	127.6	126.3	122.6	112.8	101.8	98.1	56.4	41.7	34.3	31.9	31.9
20°	228.1	218.3	199.9	175.4	149.6	136.1	60.1	36.8	29.4	28.2	29.4
21°	298.0	288.2	264.9	224.4	179.1	164.3	62.6	35.6	28.2	27.0	29.4
22°	406.0	394.9	347.1	291.9	226.9	201.1	63.8	33.1	25.8	25.8	28.2
23°	566.6	548.2	467.3	379.0	283.3	246.5	66.2	31.9	24.5	25.8	27.0
24°	742.0	726.1	634.1	501.6	361.8	309.1	68.7	30.7	23.3	23.3	25.8
25°	1021.7	1003.3	840.1	632.9	458.7	371.6	72.4	28.2	22.1	22.1	25.8
26°	1383.5	1298.8	1081.7	815.6	565.4	466.1	76.0	27.0	20.9	22.1	24.5
27°	1726.9	1657.0	1412.9	1046.2	699.1	572.8	80.9	25.8	19.6	20.9	24.5
28°	2178.2	2080.1	1772.3	1323.4	880.6	693.0	85.9	24.5	18.4	20.9	23.3
29°	2683.5	2546.2	2174.5	1634.9	1085.4	827.9	90.8	23.3	17.2	19.6	23.3
30°	3107.9	2979.1	2607.5	2004.1	1320.9	1005.7	95.7	22.1	15.9	19.6	23.3
31°	3605.8	3410.8	2960.7	2316.8	1523.3	1183.5	100.6	19.6	14.7	18.4	22.1
32°	4009.3	3873.2	3394.9	2670.0	1789.4	1379.8	104.3	18.4	14.7	18.4	22.1
33°	4399.4	4216.6	3754.2	3008.5	2029.8	1580.9	107.9	17.2	13.5	17.2	22.1
34°	4772.2	4604.2	4094.0	3282.0	2256.7	1772.3	110.4	14.7	13.5	17.2	20.9
35°	5100.9	4905.9	4393.2	3549.4	2489.7	1946.4	110.4	13.5	12.3	15.9	20.9
36°	5314.3	5174.5	4653.2	3813.1	2700.7	2112.0	110.4	12.3	11.0	15.9	19.6
37°	5497.1	5333.9	4861.7	4015.5	2856.5	2244.4	110.4	11.0	11.0	15.9	19.6
38°	5571.9	5432.0	5005.2	4194.5	3002.4	2379.4	109.2	9.8	9.8	14.7	19.6
39°	5601.3	5476.2	5113.2	4323.3	3110.3	2470.1	106.7	8.6	9.8	14.7	19.6
40°	5563.3	5468.8	5168.4	4406.7	3196.2	2536.3	103.0	7.4	8.6	14.7	19.6
42.5°	5406.3	5343.7	5156.1	4490.1	3269.8	2585.4	89.5	4.9	8.6	13.5	19.6
45°	5266.5	5197.8	5032.2	4403.0	3174.1	2488.5	67.5	2.5	8.6	13.5	19.6
47.5°	4995.4	4952.5	4822.5	4181.0	2964.4	2270.2	47.8	1.2	7.4	12.3	18.4
50°	4452.1	4411.6	4239.9	3630.4	2549.8	1919.4	34.3	1.2	6.1	12.3	18.4
52.5°	3965.2	3922.3	3675.7	3018.3	1958.7	1406.8	22.1	1.2	6.1	12.3	18.4
55°	3376.5	3301.7	2977.9	2291.1	1388.4	943.2	15.9	1.2	6.1	11.0	18.4
57.5°	2499.6	2390.4	2100.9	1562.5	799.7	511.4	8.6	1.2	6.1	11.0	18.4
60°	1699.9	1634.9	1314.8	824.2	341.0	215.9	3.7	1.2	6.1	11.0	17.2
62.5°	1030.2	948.1	661.1	350.8	147.2	98.1	0.0	2.5	6.1	11.0	17.2
65°	293.1	260.0	172.9	79.7	41.7	31.9	0.0	2.5	6.1	11.0	17.2
67.5°	9.8	9.8	9.8	8.6	6.1	6.1	1.2	2.5	6.1	11.0	15.9
70°	3.7	3.7	3.7	2.5	2.5	1.2	1.2	2.5	6.1	9.8	15.9
72.5°	2.5	2.5	2.5	2.5	1.2	1.2	1.2	2.5	4.9	8.6	14.7
75°	2.5	2.5	2.5	1.2	1.2	1.2	1.2	3.7	4.9	8.6	12.3
77.5°	2.5	2.5	2.5	1.2	1.2	1.2	1.2	3.7	4.9	7.4	12.3
80°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	3.7	4.9	7.4	9.8



TEST NUMBER: P1318138

CATALOG NUMBER: P3SQAS17R309835DE010 E3SQCA451MMS

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
82.5°	1.2	1.2	1.2	0.0	0.0	0.0	1.2	3.7	4.9	4.9	7.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	1.2	3.7	4.9	3.7	4.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.2	3.7	3.7	3.7	2.5
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: P1318138

CATALOG NUMBER: P3SQAS17R309835DE010 E3SQCA451MMS

CANDELA DISTRIBUTION (continued):

	157.5°	180°
0°	56.4	56.4
2.5°	52.7	52.7
5°	49.1	49.1
7.5°	45.4	45.4
10°	41.7	41.7
12.5°	39.2	39.2
15°	35.6	36.8
17.5°	33.1	34.3
20°	31.9	33.1
21°	31.9	33.1
22°	30.7	31.9
23°	30.7	31.9
24°	29.4	30.7
25°	28.2	29.4
26°	28.2	29.4
27°	28.2	29.4
28°	27.0	29.4
29°	27.0	28.2
30°	27.0	28.2
31°	25.8	28.2
32°	25.8	28.2
33°	25.8	27.0
34°	24.5	27.0
35°	24.5	27.0
36°	24.5	27.0
37°	24.5	25.8
38°	24.5	27.0
39°	24.5	25.8
40°	24.5	25.8
42.5°	24.5	25.8
45°	24.5	25.8
47.5°	24.5	27.0
50°	24.5	27.0
52.5°	24.5	27.0
55°	24.5	27.0
57.5°	24.5	25.8
60°	24.5	25.8
62.5°	23.3	25.8
65°	23.3	24.5
67.5°	23.3	24.5
70°	22.1	23.3
72.5°	20.9	22.1
75°	18.4	20.9
77.5°	17.2	18.4
80°	14.7	15.9



TEST NUMBER: P1318138

CATALOG NUMBER: P3SQAS17R309835DE010 E3SQCA451MMS

CANDELA DISTRIBUTION (continued):

	157.5°	180°
82.5°	12.3	12.3
85°	8.6	9.8
87.5°	4.9	4.9
90°	0.0	0.0

(END OF REPORT)