

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: P1318070

Luminaire Tested: P3SQAS13R659835DE010 E3SQCA451MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1318070
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-82)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS13R659835DE010 E3SQCA451MW
Description: 3in Adjustable LED luminaire with, R65 optic, 3500K CCT AND, 98CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

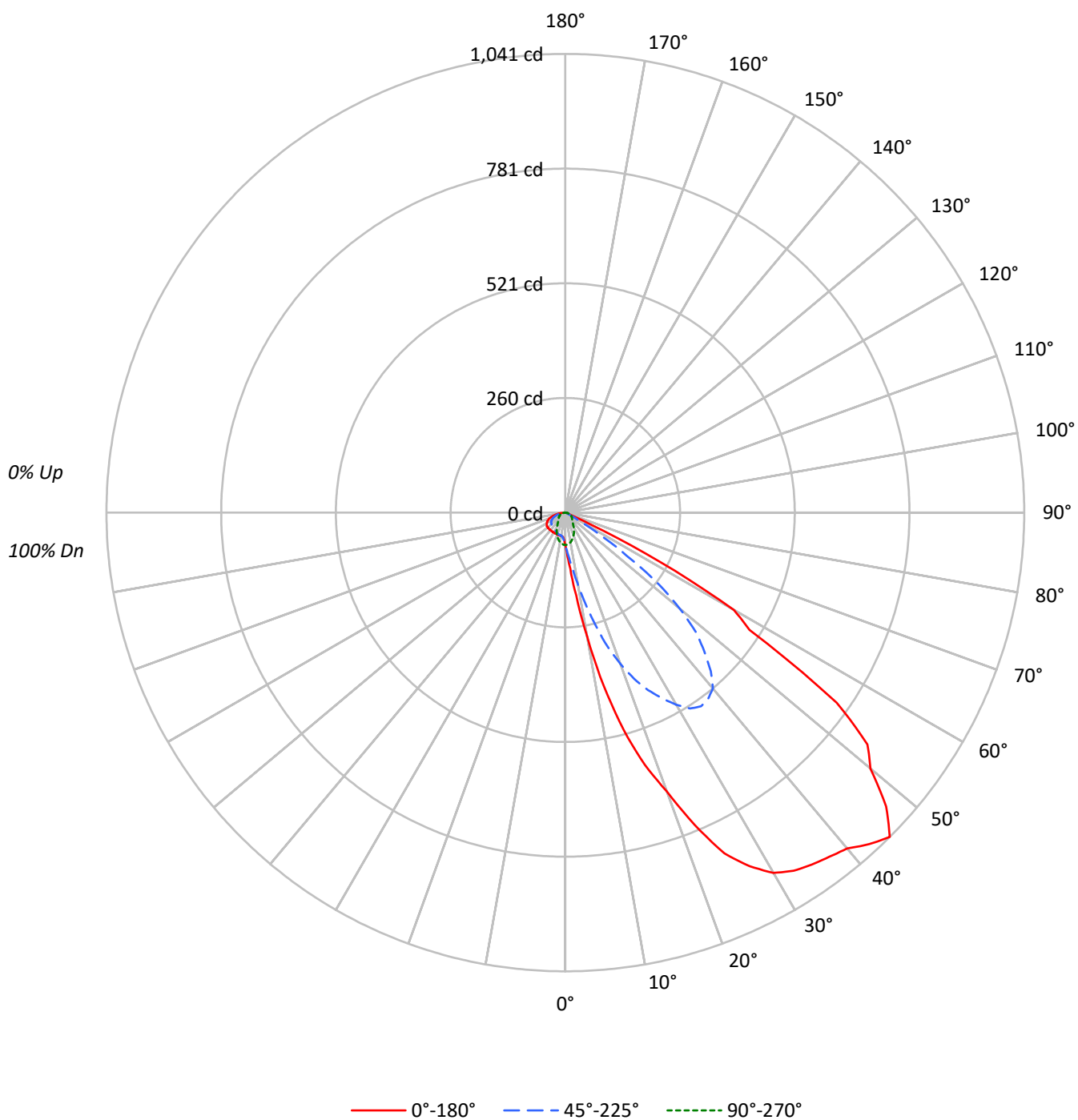
Lumens per Lamp: N/A
Luminaire Lumens: 755.0 lumens
Efficiency: N/A
Efficacy: 52.1 lumens/watt
Spacing Criteria (0/90/45): 3.28 / 0.89 / 2.04
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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: P1318070

CATALOG NUMBER: P3SQAS13R659835DE010 E3SQCA451MW

Luminous Intensity Polar Plot



TEST NUMBER: P1318070

CATALOG NUMBER: P3SQAS13R659835DE010 E3SQCA451MW

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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
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	94	91	92	90	89	87		
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	74		
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	62		
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55	53		
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45		
6	71	57	49	42	69	57	48	42	55	47	42	53	46	41	51	46	41	39		
7	65	52	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	34		
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29		
9	56	42	34	28	54	41	33	28	40	33	28	39	33	28	38	32	28	26		
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	12641	12641	12641	12641	12641
5°	22111	18066	12430	10079	9681
10°	50050	29117	11909	9269	9391
15°	90968	46839	11072	9307	9575
20°	123344	66877	9989	9292	9714
25°	162131	84448	8779	9064	9919
30°	187729	100109	7537	9028	10381
35°	204989	112839	6370	9230	10975
40°	223629	117087	5621	9690	11736
45°	253521	108603	5358	10327	12714
50°	242183	90668	5278	10958	13986
55°	225706	50924	5465	11830	15463
60°	152004	10953	5477	12503	16671
65°	23432	2771	5257	12959	18216
70°	2669	2669	4935	13344	19437
75°	2529	2529	4525	13109	19630
80°	2281	2975	4463	12001	19538
85°	1581	2964	4545	12054	17982

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 253521 cd/sqm

TEST NUMBER: P1318070

CATALOG NUMBER: P3SQAS13R659835DE010 E3SQCA451MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.9	1.2
10°-20°	48.0	6.4
20°-30°	112.8	14.9
30°-40°	170.4	22.6
40°-50°	195.9	25.9
50°-60°	155.5	20.6
60°-70°	46.6	6.2
70°-80°	12.7	1.7
80°-90°	4.3	0.6
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°	169.7	22.5
0°-40°	340.1	45.0
0°-60°	691.5	91.6
0°-90°	755.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	755.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	73	73	73	73	73	
5°	128	104	72	58	56	17
15°	510	263	62	52	54	147
25°	853	444	46	48	52	389
35°	975	537	30	44	52	612
45°	1041	446	22	42	52	773
55°	752	170	18	39	52	619
65°	58	7	13	32	45	129
75°	4	4	7	20	30	4
85°	1	2	2	6	9	1
90°	0	0	0	0	0	

TEST NUMBER: P1318070

CATALOG NUMBER: P3SQAS13R659835DE010 E3SQCA451MW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4
2.5°	93.1	93.9	93.1	93.1	92.4	91.6	86.3	80.2	73.4	68.1	64.3
5°	127.9	128.7	126.4	126.4	124.9	122.6	104.5	87.1	71.9	63.6	58.3
7.5°	189.3	192.3	188.5	184.0	175.6	174.1	130.2	93.9	70.4	59.0	54.5
10°	286.2	283.9	280.1	271.0	256.6	249.8	166.5	100.7	68.1	56.0	53.0
12.5°	403.5	397.4	392.9	376.2	356.6	345.2	212.0	106.7	65.1	53.0	52.2
15°	510.2	505.7	495.1	479.2	455.0	445.9	262.7	110.5	62.1	50.7	52.2
17.5°	600.3	595.8	589.7	573.8	548.8	535.2	319.5	112.8	58.3	49.2	51.5
20°	673.0	670.0	661.6	648.8	623.8	610.9	364.9	112.8	54.5	47.7	50.7
22.5°	766.9	760.0	749.4	730.5	699.5	679.8	408.0	110.5	50.7	46.2	49.2
25°	853.2	848.6	835.0	812.3	779.0	759.3	444.4	106.0	46.2	43.9	47.7
27.5°	904.6	901.6	888.7	865.3	828.2	813.0	474.6	99.2	41.6	41.6	46.9
30°	944.0	937.9	925.1	902.4	864.5	846.3	503.4	90.8	37.9	39.4	45.4
32.5°	963.7	961.4	950.1	930.4	893.3	872.8	526.9	80.2	33.3	37.9	44.7
35°	975.0	972.8	963.7	944.8	909.9	890.2	536.7	70.4	30.3	36.3	43.9
37.5°	984.1	981.8	970.5	951.6	916.7	896.3	532.2	59.8	27.3	34.8	43.1
40°	994.7	986.4	969.0	950.1	918.3	898.6	520.8	50.0	25.0	34.1	43.1
42.5°	1020.5	991.7	964.4	947.0	916.7	894.0	488.3	39.4	22.7	32.6	42.4
45°	1040.9	990.2	955.3	941.7	910.7	884.9	445.9	28.8	22.0	31.8	42.4
47.5°	987.1	956.1	940.2	932.6	899.3	871.3	402.0	19.7	21.2	31.0	41.6
50°	903.9	900.1	894.0	894.8	864.5	841.8	338.4	13.6	19.7	30.3	40.9
52.5°	863.8	859.2	848.6	841.0	810.8	791.1	268.0	10.6	18.9	29.5	40.1
55°	751.7	754.7	743.4	747.9	738.8	729.0	169.6	9.8	18.2	28.0	39.4
57.5°	495.1	510.2	536.7	568.5	597.3	617.0	91.6	9.8	16.7	27.3	37.9
60°	441.3	437.6	436.8	442.9	455.7	466.3	31.8	9.1	15.9	25.0	36.3
62.5°	241.5	240.0	262.7	301.3	324.0	326.3	9.1	9.1	14.4	23.5	34.1
65°	57.5	59.8	66.6	83.3	98.4	108.3	6.8	8.3	12.9	22.0	31.8
67.5°	9.1	9.8	9.8	12.1	13.6	13.6	6.1	7.6	11.4	19.7	29.5
70°	5.3	5.3	5.3	5.3	5.3	5.3	5.3	6.8	9.8	17.4	26.5
72.5°	4.5	4.5	4.5	4.5	4.5	4.5	5.3	6.1	8.3	15.1	22.7
75°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	5.3	6.8	12.1	19.7
77.5°	3.0	3.0	3.0	3.0	3.0	3.0	3.8	4.5	6.1	9.8	15.9
80°	2.3	2.3	2.3	2.3	2.3	2.3	3.0	3.8	4.5	7.6	12.1
82.5°	1.5	1.5	1.5	1.5	1.5	1.5	2.3	3.0	3.8	6.1	9.1
85°	0.8	0.8	0.8	0.8	1.5	1.5	1.5	2.3	2.3	3.8	6.1
87.5°	0.8	0.8	0.8	0.8	0.8	0.8	1.5	1.5	1.5	2.3	3.0
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: P1318070

CATALOG NUMBER: P3SQAS13R659835DE010 E3SQCA451MW

CANDELA DISTRIBUTION (continued):

	157.5°	180°
0°	73.4	73.4
2.5°	62.1	61.3
5°	56.0	56.0
7.5°	53.7	53.7
10°	53.0	53.7
12.5°	53.0	53.7
15°	53.0	53.7
17.5°	53.0	53.7
20°	52.2	53.0
22.5°	51.5	52.2
25°	50.7	52.2
27.5°	50.0	52.2
30°	50.0	52.2
32.5°	50.0	52.2
35°	49.2	52.2
37.5°	49.2	52.2
40°	49.2	52.2
42.5°	49.2	52.2
45°	49.2	52.2
47.5°	49.2	52.2
50°	49.2	52.2
52.5°	48.4	52.2
55°	48.4	51.5
57.5°	46.9	50.0
60°	45.4	48.4
62.5°	43.9	46.9
65°	41.6	44.7
67.5°	39.4	41.6
70°	35.6	38.6
72.5°	31.8	34.1
75°	27.3	29.5
77.5°	22.7	25.0
80°	18.2	19.7
82.5°	12.9	14.4
85°	8.3	9.1
87.5°	3.8	3.8
90°	0.0	0.0

(END OF REPORT)