

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: P1314459

Luminaire Tested: P3SQAS13R659735DE010 E3SQCA451MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1314459
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: P3SQAS13R659735DE010 E3SQCA451MW
Description: 3in Adjustable LED luminaire with, R65 optic, 3500K CCT AND, 97CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

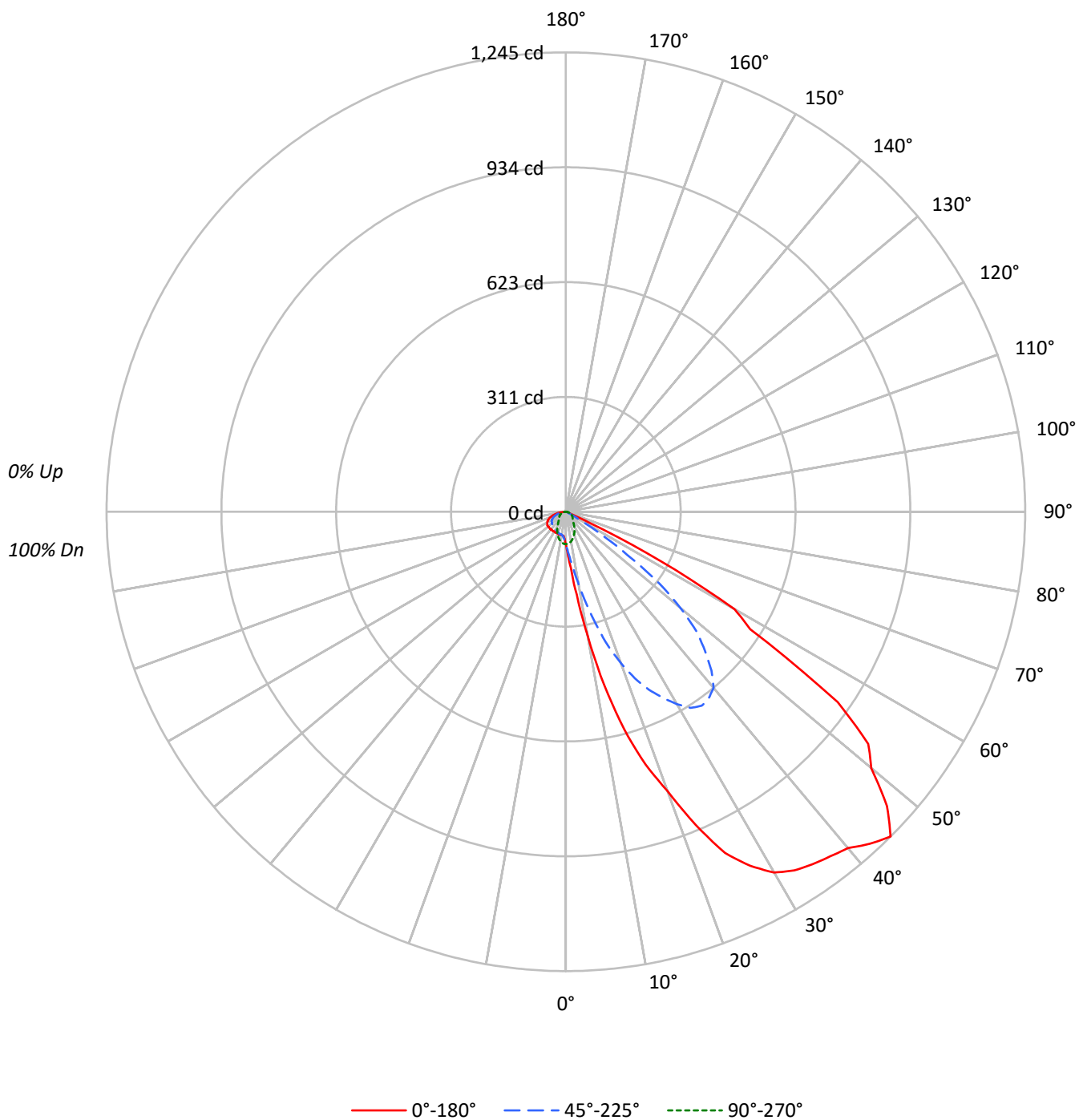
Lumens per Lamp: N/A
Luminaire Lumens: 903.0 lumens
Efficiency: N/A
Efficacy: 61.8 lumens/watt
Spacing Criteria (0/90/45): 3.28 / 0.89 / 2.04
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.6
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

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Luminous Intensity Polar Plot



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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°	15121	15121	15121	15121	15121
5°	26451	21593	14868	12050	11583
10°	59844	34836	14253	11087	11245
15°	108797	56021	13230	11144	11465
20°	147518	79981	11950	11125	11620
25°	193903	100999	10489	10832	11877
30°	224519	119737	9009	10798	12429
35°	245188	134956	7611	11038	13140
40°	267469	140041	6722	11601	14051
45°	303207	129890	6406	12348	15222
50°	289660	108432	6296	13102	16746
55°	269965	60893	6516	14142	18496
60°	181833	13089	6544	14983	19943
65°	28037	3301	6276	15486	21761
70°	3172	3172	5942	15962	23264
75°	2994	2994	5390	15637	23489
80°	2678	3570	5356	14381	23307
85°	1778	3557	5335	14227	21539

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 303207 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.6	1.2
10°-20°	57.4	6.4
20°-30°	134.9	14.9
30°-40°	203.8	22.6
40°-50°	234.3	25.9
50°-60°	186.0	20.6
60°-70°	55.7	6.2
70°-80°	15.1	1.7
80°-90°	5.1	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°	203.0	22.5
0°-40°	406.8	45.0
0°-60°	827.1	91.6
0°-90°	903.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	903.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	88	88	88	88	88	
5°	153	125	86	70	67	20
15°	610	314	74	62	64	176
25°	1020	532	55	57	62	466
35°	1166	642	36	52	62	732
45°	1245	533	26	51	62	925
55°	899	203	22	47	62	741
65°	69	8	15	38	53	154
75°	4	4	8	24	35	5
85°	1	2	3	7	11	1
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8
2.5°	111.4	112.3	111.4	111.4	110.5	109.6	103.2	96.0	87.8	81.5	77.0
5°	153.0	153.9	151.2	151.2	149.4	146.7	124.9	104.1	86.0	76.1	69.7
7.5°	226.4	230.0	225.4	220.0	210.1	208.2	155.7	112.3	84.2	70.6	65.2
10°	342.2	339.5	335.0	324.1	306.9	298.8	199.2	120.4	81.5	67.0	63.4
12.5°	482.6	475.3	469.9	450.0	426.4	412.9	253.5	127.7	77.9	63.4	62.5
15°	610.2	604.8	592.1	573.1	544.1	533.3	314.2	132.2	74.2	60.7	62.5
17.5°	718.0	712.6	705.3	686.3	656.4	640.1	382.1	134.9	69.7	58.9	61.6
20°	804.9	801.3	791.3	775.9	746.1	730.7	436.4	134.9	65.2	57.0	60.7
22.5°	917.2	909.0	896.4	873.7	836.6	813.1	488.0	132.2	60.7	55.2	58.9
25°	1020.4	1015.0	998.7	971.5	931.7	908.1	531.5	126.8	55.2	52.5	57.0
27.5°	1082.0	1078.3	1062.9	1034.9	990.5	972.4	567.7	118.6	49.8	49.8	56.1
30°	1129.0	1121.8	1106.4	1079.2	1034.0	1012.2	602.1	108.6	45.3	47.1	54.3
32.5°	1152.6	1149.9	1136.3	1112.7	1068.4	1043.9	630.2	96.0	39.8	45.3	53.4
35°	1166.2	1163.4	1152.6	1129.9	1088.3	1064.8	641.9	84.2	36.2	43.5	52.5
37.5°	1177.0	1174.3	1160.7	1138.1	1096.4	1072.0	636.5	71.5	32.6	41.6	51.6
40°	1189.7	1179.7	1158.9	1136.3	1098.3	1074.7	622.9	59.8	29.9	40.7	51.6
42.5°	1220.5	1186.1	1153.5	1132.7	1096.4	1069.3	584.0	47.1	27.2	38.9	50.7
45°	1244.9	1184.3	1142.6	1126.3	1089.2	1058.4	533.3	34.4	26.3	38.0	50.7
47.5°	1180.7	1143.5	1124.5	1115.5	1075.6	1042.1	480.8	23.5	25.4	37.1	49.8
50°	1081.1	1076.5	1069.3	1070.2	1034.0	1006.8	404.7	16.3	23.5	36.2	48.9
52.5°	1033.1	1027.6	1015.0	1005.9	969.7	946.1	320.5	12.7	22.6	35.3	48.0
55°	899.1	902.7	889.1	894.5	883.7	871.9	202.8	11.8	21.7	33.5	47.1
57.5°	592.1	610.2	641.9	680.0	714.4	737.9	109.6	11.8	19.9	32.6	45.3
60°	527.9	523.3	522.4	529.7	545.1	557.7	38.0	10.9	19.0	29.9	43.5
62.5°	288.8	287.0	314.2	360.4	387.5	390.2	10.9	10.9	17.2	28.1	40.7
65°	68.8	71.5	79.7	99.6	117.7	129.5	8.1	10.0	15.4	26.3	38.0
67.5°	10.9	11.8	11.8	14.5	16.3	16.3	7.2	9.1	13.6	23.5	35.3
70°	6.3	6.3	6.3	6.3	6.3	6.3	6.3	8.1	11.8	20.8	31.7
72.5°	5.4	5.4	5.4	5.4	5.4	5.4	6.3	7.2	10.0	18.1	27.2
75°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	6.3	8.1	14.5	23.5
77.5°	3.6	3.6	3.6	3.6	3.6	3.6	4.5	5.4	7.2	11.8	19.0
80°	2.7	2.7	2.7	2.7	2.7	2.7	3.6	4.5	5.4	9.1	14.5
82.5°	1.8	1.8	1.8	1.8	1.8	1.8	2.7	3.6	4.5	7.2	10.9
85°	0.9	0.9	0.9	0.9	1.8	1.8	1.8	2.7	2.7	4.5	7.2
87.5°	0.9	0.9	0.9	0.9	0.9	0.9	1.8	1.8	1.8	2.7	3.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	157.5°	180°
0°	87.8	87.8
2.5°	74.2	73.3
5°	67.0	67.0
7.5°	64.3	64.3
10°	63.4	64.3
12.5°	63.4	64.3
15°	63.4	64.3
17.5°	63.4	64.3
20°	62.5	63.4
22.5°	61.6	62.5
25°	60.7	62.5
27.5°	59.8	62.5
30°	59.8	62.5
32.5°	59.8	62.5
35°	58.9	62.5
37.5°	58.9	62.5
40°	58.9	62.5
42.5°	58.9	62.5
45°	58.9	62.5
47.5°	58.9	62.5
50°	58.9	62.5
52.5°	57.9	62.5
55°	57.9	61.6
57.5°	56.1	59.8
60°	54.3	57.9
62.5°	52.5	56.1
65°	49.8	53.4
67.5°	47.1	49.8
70°	42.6	46.2
72.5°	38.0	40.7
75°	32.6	35.3
77.5°	27.2	29.9
80°	21.7	23.5
82.5°	15.4	17.2
85°	10.0	10.9
87.5°	4.5	4.5
90°	0.0	0.0

(END OF REPORT)