

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: P1309018

Luminaire Tested: P3SQAS09R559035DE010 E3SQCA451MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1309018
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-80)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS09R559035DE010 E3SQCA451MW
Description: 3in Adjustable LED luminaire with, R55 optic, 3500K CCT AND, 90CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

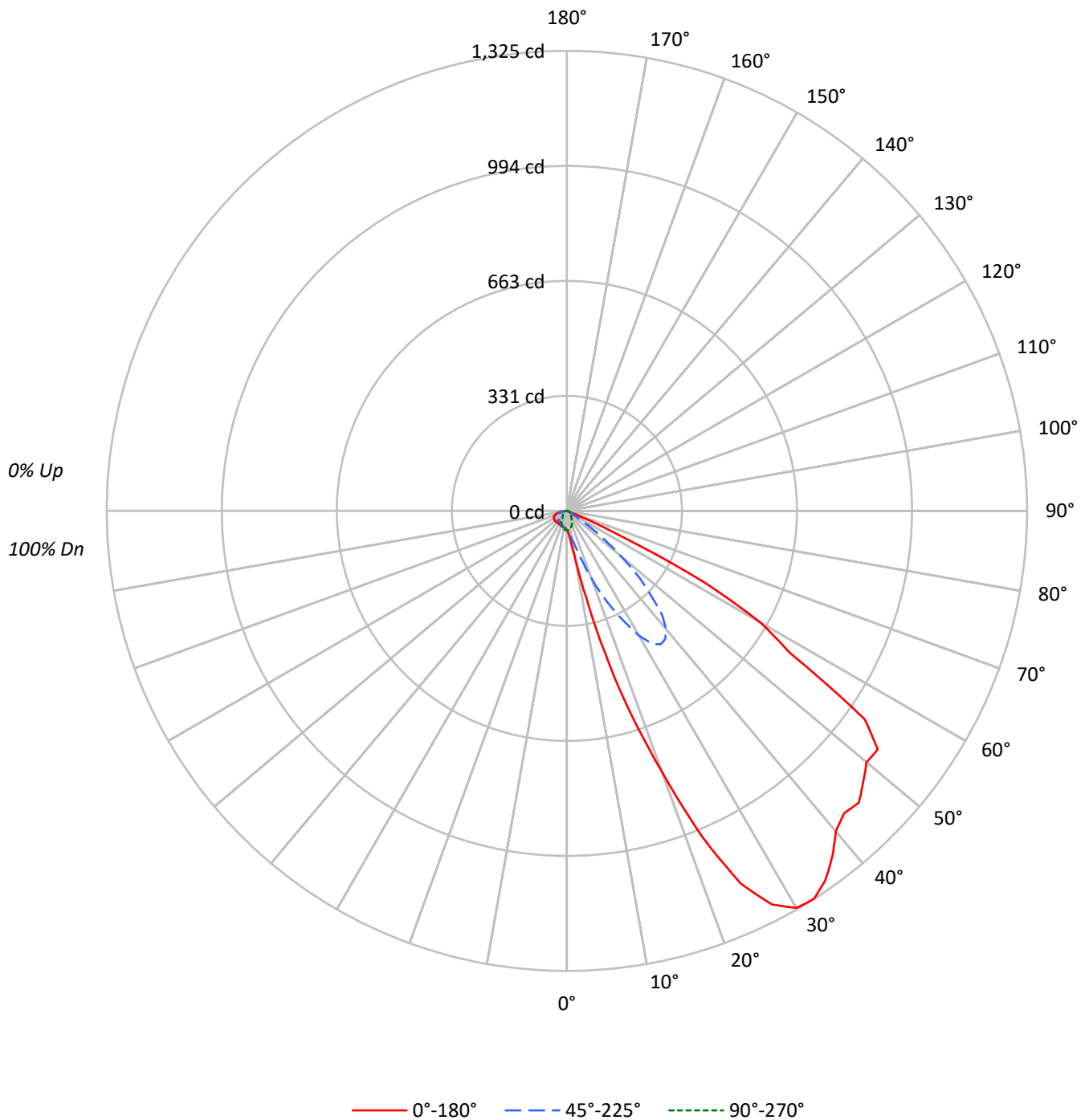
Lumens per Lamp: N/A
Luminaire Lumens: 852.0 lumens
Efficiency: N/A
Efficacy: 76.8 lumens/watt
Spacing Criteria (0/90/45): 3.76 / 0.9 / 1.95
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11.1
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	107	104	100	97	99	97	94	95	93	91	92	90	88	86		
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	80	72	67	77	71	65	74	69	64	72	67	63	61		
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51		
5	76	63	54	47	74	62	53	47	60	52	47	58	51	46	56	50	46	43		
6	69	56	47	40	68	55	46	40	53	46	40	51	45	39	50	44	39	37		
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	38	34	32		
8	59	45	36	30	57	44	36	30	43	35	30	41	35	29	40	34	29	27		
9	54	40	32	26	53	40	32	26	39	31	26	38	31	26	36	30	26	24		
10	50	37	28	23	49	36	28	23	35	28	23	34	27	23	33	27	23	21		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	9472	9472	9472	9472	9472
5°	12102	11064	9508	8851	8592
10°	24623	14078	9216	8429	8429
15°	75563	21610	8594	8184	8451
20°	146107	37810	7734	8009	8412
25°	224878	58794	6727	7734	8437
30°	262582	82191	5548	7636	8690
35°	272856	98752	4583	7590	9020
40°	270797	99685	4227	7959	9825
45°	289519	82518	4043	8622	10644
50°	301744	54470	4046	9270	11896
55°	314193	23721	4084	10179	13121
60°	221961	5442	4133	11160	14777
65°	72415	1834	3994	11981	16586
70°	2266	1913	4179	12891	18933
75°	1996	1996	3527	13508	21027
80°	1488	2281	3769	13488	22414
85°	1581	2964	4545	13437	22329

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 319232 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.8	0.7
10°-20°	36.2	4.2
20°-30°	121.3	14.2
30°-40°	199.1	23.4
40°-50°	222.1	26.1
50°-60°	187.0	21.9
60°-70°	63.4	7.4
70°-80°	12.4	1.5
80°-90°	4.7	0.5
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°	163.3	19.2
0°-40°	362.4	42.5
0°-60°	771.5	90.6
0°-90°	852.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	852.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	55	55	55	55	55	
5°	70	64	55	51	50	9
15°	424	121	48	46	47	134
25°	1183	309	35	41	44	532
35°	1298	470	22	36	43	806
45°	1189	339	17	35	44	908
55°	1046	79	14	34	44	852
65°	178	4	10	29	41	241
75°	3	3	5	20	32	3
85°	1	2	2	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°	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
2.5°	60.2	60.2	60.2	60.2	60.2	60.2	59.5	57.2	55.7	53.4	52.7
5°	70.0	70.0	70.0	69.3	69.3	67.8	64.0	58.7	55.0	51.9	51.2
7.5°	90.3	89.6	88.1	87.3	85.1	84.3	70.8	60.2	54.2	50.4	49.7
10°	140.8	139.3	137.0	128.7	121.2	115.9	80.5	61.0	52.7	48.9	48.2
12.5°	253.7	250.7	239.4	222.1	201.0	190.5	96.4	61.7	50.4	47.4	47.4
15°	423.8	420.1	399.0	374.9	336.5	315.4	121.2	61.0	48.2	45.2	45.9
17.5°	612.0	601.5	579.7	548.0	496.1	471.2	158.1	59.5	45.2	43.7	45.2
20°	797.2	794.2	758.1	715.2	651.2	618.0	206.3	57.2	42.2	41.4	43.7
22.5°	1014.0	1001.2	962.8	916.9	828.8	785.2	258.2	54.2	39.1	39.1	42.2
25°	1183.4	1168.3	1138.2	1084.8	1001.2	954.5	309.4	50.4	35.4	36.9	40.7
27.5°	1278.2	1260.9	1238.3	1192.4	1127.7	1086.3	360.6	45.9	31.6	34.6	39.1
30°	1320.4	1315.9	1299.3	1265.4	1206.0	1169.1	413.3	40.7	27.9	32.4	38.4
32.5°	1324.9	1327.2	1320.4	1298.6	1253.4	1221.8	452.4	36.1	24.8	30.9	36.9
35°	1297.8	1306.1	1310.6	1301.6	1272.2	1246.6	469.7	30.9	21.8	29.4	36.1
37.5°	1255.7	1270.7	1285.8	1288.0	1270.0	1253.4	465.2	26.3	20.3	28.6	36.1
40°	1204.5	1218.0	1248.9	1268.5	1262.4	1250.4	443.4	21.8	18.8	27.1	35.4
42.5°	1181.1	1184.1	1217.3	1250.4	1248.9	1239.1	405.0	17.3	17.3	27.1	35.4
45°	1188.7	1175.1	1196.9	1235.3	1233.1	1220.3	338.8	13.6	16.6	26.3	35.4
47.5°	1157.0	1138.2	1175.1	1220.3	1212.0	1193.2	280.0	9.8	15.8	25.6	34.6
50°	1126.2	1123.2	1151.8	1174.4	1163.1	1152.5	203.3	7.5	15.1	24.8	34.6
52.5°	1128.4	1123.2	1126.2	1125.4	1102.8	1091.5	139.3	6.0	14.3	24.1	34.6
55°	1046.4	1029.8	1014.0	1018.5	1020.0	1012.5	79.0	5.3	13.6	24.1	33.9
57.5°	760.3	755.8	773.1	822.0	860.4	865.0	38.4	5.3	12.8	23.3	33.1
60°	644.4	641.4	642.1	656.4	676.8	664.0	15.8	5.3	12.0	22.6	32.4
62.5°	444.1	473.5	485.6	518.7	505.1	487.1	6.0	6.0	11.3	21.1	31.6
65°	177.7	176.9	193.5	209.3	204.8	191.2	4.5	5.3	9.8	19.6	29.4
67.5°	41.4	37.6	32.4	27.9	23.3	18.8	4.5	5.3	9.0	18.1	27.9
70°	4.5	4.5	4.5	4.5	4.5	3.8	3.8	5.3	8.3	16.6	25.6
72.5°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	4.5	6.8	14.3	23.3
75°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.8	5.3	12.0	20.3
77.5°	2.3	2.3	2.3	3.0	2.3	3.0	3.0	3.8	4.5	9.8	17.3
80°	1.5	1.5	2.3	2.3	2.3	2.3	2.3	3.0	3.8	8.3	13.6
82.5°	1.5	1.5	1.5	1.5	1.5	1.5	2.3	2.3	3.0	6.0	9.8
85°	0.8	0.8	0.8	0.8	0.8	1.5	1.5	2.3	2.3	4.5	6.8
87.5°	0.8	0.8	0.8	0.8	0.8	0.8	1.5	1.5	2.3	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

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CANDELA DISTRIBUTION (continued):

	157.5°	180°
0°	55.0	55.0
2.5°	51.9	51.9
5°	50.4	49.7
7.5°	48.9	48.9
10°	48.2	48.2
12.5°	47.4	48.2
15°	47.4	47.4
17.5°	45.9	46.7
20°	45.2	45.9
22.5°	44.4	45.2
25°	43.7	44.4
27.5°	42.9	43.7
30°	42.2	43.7
32.5°	41.4	42.9
35°	41.4	42.9
37.5°	41.4	43.7
40°	41.4	43.7
42.5°	41.4	43.7
45°	41.4	43.7
47.5°	41.4	43.7
50°	41.4	44.4
52.5°	41.4	44.4
55°	41.4	43.7
57.5°	40.7	43.7
60°	40.7	42.9
62.5°	39.9	42.2
65°	38.4	40.7
67.5°	36.9	39.9
70°	34.6	37.6
72.5°	32.4	34.6
75°	29.4	31.6
77.5°	25.6	27.1
80°	20.3	22.6
82.5°	15.8	17.3
85°	10.5	11.3
87.5°	4.5	5.3
90°	0.0	0.0

(END OF REPORT)