

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: P1315247

Luminaire Tested: P3SQAS09R559740DE010 E3SQCA451MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1315247
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: P3SQAS09R559740DE010 E3SQCA451MW
Description: 3in Adjustable LED luminaire with, R55 optic, 4000K CCT AND, 97CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

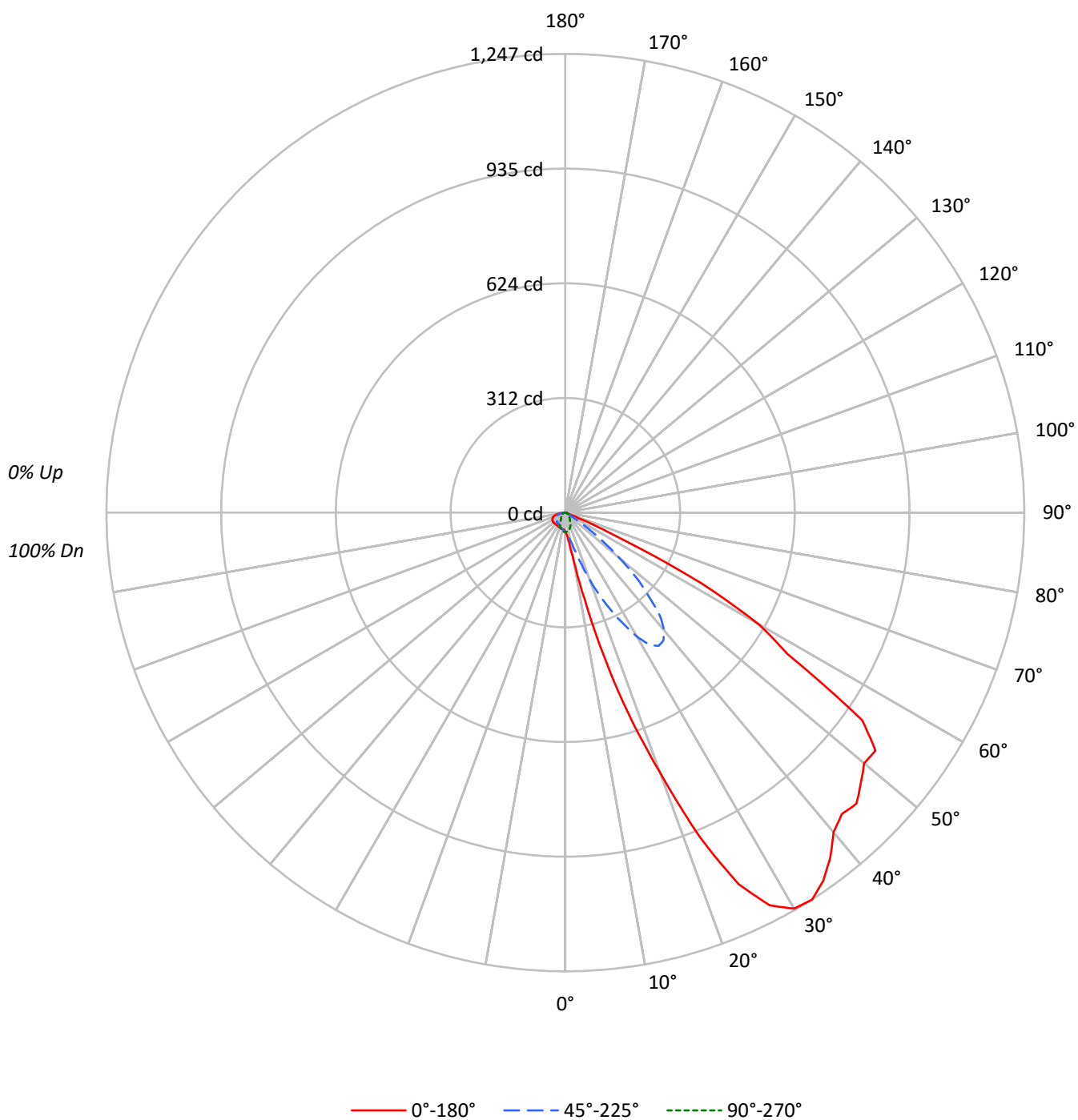
Lumens per Lamp: N/A
Luminaire Lumens: 802.0 lumens
Efficiency: N/A
Efficacy: 72.3 lumens/watt
Spacing Criteria (0/90/45): 3.76 / 0.91 / 1.95
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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°	8904	8904	8904	8904	8904
5°	11393	10407	8938	8333	8091
10°	23172	13256	8674	7940	7940
15°	71141	20344	8095	7702	7952
20°	137530	35592	7276	7533	7918
25°	211671	55336	6328	7278	7943
30°	247170	77359	5210	7179	8173
35°	256856	92970	4310	7148	8494
40°	254902	93840	3979	7487	9240
45°	272519	77671	3800	8111	10010
50°	284034	51255	3805	8735	11200
55°	295757	22339	3843	9578	12341
60°	208941	5132	3892	10506	13916
65°	68136	1752	3749	11247	15608
70°	2165	1762	3928	12135	17826
75°	1863	1863	3327	12709	19829
80°	1389	2083	3471	12695	21125
85°	1383	2766	4150	12647	20946

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 300503 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.5	0.7
10°-20°	34.0	4.2
20°-30°	114.1	14.2
30°-40°	187.5	23.4
40°-50°	209.1	26.1
50°-60°	176.0	21.9
60°-70°	59.7	7.4
70°-80°	11.7	1.5
80°-90°	4.4	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°	153.7	19.2
0°-40°	341.1	42.5
0°-60°	726.3	90.6
0°-90°	802.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	802.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	52	52	52	52	52	
5°	66	60	52	48	47	8
15°	399	114	45	43	45	127
25°	1114	291	33	38	42	501
35°	1222	442	20	34	40	759
45°	1119	319	16	33	41	854
55°	985	74	13	32	41	802
65°	167	4	9	28	38	226
75°	3	3	5	19	30	3
85°	1	1	2	6	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°	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
2.5°	56.7	56.7	56.7	56.7	56.7	56.7	56.0	53.9	52.4	50.3	49.6
5°	65.9	65.9	65.9	65.2	65.2	63.8	60.2	55.3	51.7	48.9	48.2
7.5°	85.0	84.3	82.9	82.2	80.1	79.4	66.6	56.7	51.0	47.5	46.8
10°	132.5	131.1	129.0	121.2	114.1	109.1	75.8	57.4	49.6	46.1	45.4
12.5°	238.8	236.0	225.3	209.0	189.2	179.3	90.7	58.1	47.5	44.6	44.6
15°	399.0	395.4	375.6	352.9	316.8	296.9	114.1	57.4	45.4	42.5	43.2
17.5°	576.1	566.2	545.6	515.9	467.0	443.6	148.8	56.0	42.5	41.1	42.5
20°	750.4	747.6	713.6	673.2	613.0	581.8	194.2	53.9	39.7	39.0	41.1
22.5°	954.5	942.5	906.3	863.1	780.2	739.1	243.1	51.0	36.8	36.8	39.7
25°	1113.9	1099.8	1071.4	1021.1	942.5	898.5	291.2	47.5	33.3	34.7	38.3
27.5°	1203.2	1186.9	1165.7	1122.4	1061.5	1022.5	339.4	43.2	29.8	32.6	36.8
30°	1242.9	1238.7	1223.1	1191.2	1135.2	1100.5	389.0	38.3	26.2	30.5	36.1
32.5°	1247.2	1249.3	1242.9	1222.4	1179.8	1150.1	425.9	34.0	23.4	29.1	34.7
35°	1221.7	1229.4	1233.7	1225.2	1197.6	1173.5	442.2	29.1	20.5	27.6	34.0
37.5°	1182.0	1196.1	1210.3	1212.4	1195.4	1179.8	437.9	24.8	19.1	26.9	34.0
40°	1133.8	1146.5	1175.6	1194.0	1188.3	1177.0	417.4	20.5	17.7	25.5	33.3
42.5°	1111.8	1114.7	1145.8	1177.0	1175.6	1166.4	381.2	16.3	16.3	25.5	33.3
45°	1118.9	1106.1	1126.7	1162.8	1160.7	1148.7	318.9	12.8	15.6	24.8	33.3
47.5°	1089.1	1071.4	1106.1	1148.7	1140.9	1123.2	263.6	9.2	14.9	24.1	32.6
50°	1060.1	1057.3	1084.2	1105.4	1094.8	1084.9	191.3	7.1	14.2	23.4	32.6
52.5°	1062.2	1057.3	1060.1	1059.4	1038.1	1027.5	131.1	5.7	13.5	22.7	32.6
55°	985.0	969.4	954.5	958.8	960.2	953.1	74.4	5.0	12.8	22.7	31.9
57.5°	715.7	711.4	727.7	773.8	809.9	814.2	36.1	5.0	12.0	22.0	31.2
60°	606.6	603.7	604.4	617.9	637.0	625.0	14.9	5.0	11.3	21.3	30.5
62.5°	418.1	445.7	457.1	488.2	475.5	458.5	5.7	5.7	10.6	19.8	29.8
65°	167.2	166.5	182.1	197.0	192.7	180.0	4.3	5.0	9.2	18.4	27.6
67.5°	39.0	35.4	30.5	26.2	22.0	17.7	4.3	5.0	8.5	17.0	26.2
70°	4.3	4.3	4.3	4.3	4.3	3.5	3.5	5.0	7.8	15.6	24.1
72.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	4.3	6.4	13.5	22.0
75°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	3.5	5.0	11.3	19.1
77.5°	2.1	2.1	2.1	2.8	2.1	2.8	2.8	3.5	4.3	9.2	16.3
80°	1.4	1.4	2.1	2.1	2.1	2.1	2.1	2.8	3.5	7.8	12.8
82.5°	1.4	1.4	1.4	1.4	1.4	1.4	2.1	2.1	2.8	5.7	9.2
85°	0.7	0.7	0.7	0.7	0.7	1.4	1.4	2.1	2.1	4.3	6.4
87.5°	0.7	0.7	0.7	0.7	0.7	0.7	1.4	1.4	2.1	2.1	2.8
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°	51.7	51.7
2.5°	48.9	48.9
5°	47.5	46.8
7.5°	46.1	46.1
10°	45.4	45.4
12.5°	44.6	45.4
15°	44.6	44.6
17.5°	43.2	43.9
20°	42.5	43.2
22.5°	41.8	42.5
25°	41.1	41.8
27.5°	40.4	41.1
30°	39.7	41.1
32.5°	39.0	40.4
35°	39.0	40.4
37.5°	39.0	41.1
40°	39.0	41.1
42.5°	39.0	41.1
45°	39.0	41.1
47.5°	39.0	41.1
50°	39.0	41.8
52.5°	39.0	41.8
55°	39.0	41.1
57.5°	38.3	41.1
60°	38.3	40.4
62.5°	37.6	39.7
65°	36.1	38.3
67.5°	34.7	37.6
70°	32.6	35.4
72.5°	30.5	32.6
75°	27.6	29.8
77.5°	24.1	25.5
80°	19.1	21.3
82.5°	14.9	16.3
85°	9.9	10.6
87.5°	4.3	5.0
90°	0.0	0.0

(END OF REPORT)