

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: P1309008

Luminaire Tested: P3SQAS09R509035DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1309008
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-79)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS09R509035DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R50 optic, 3500K CCT AND, 90CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

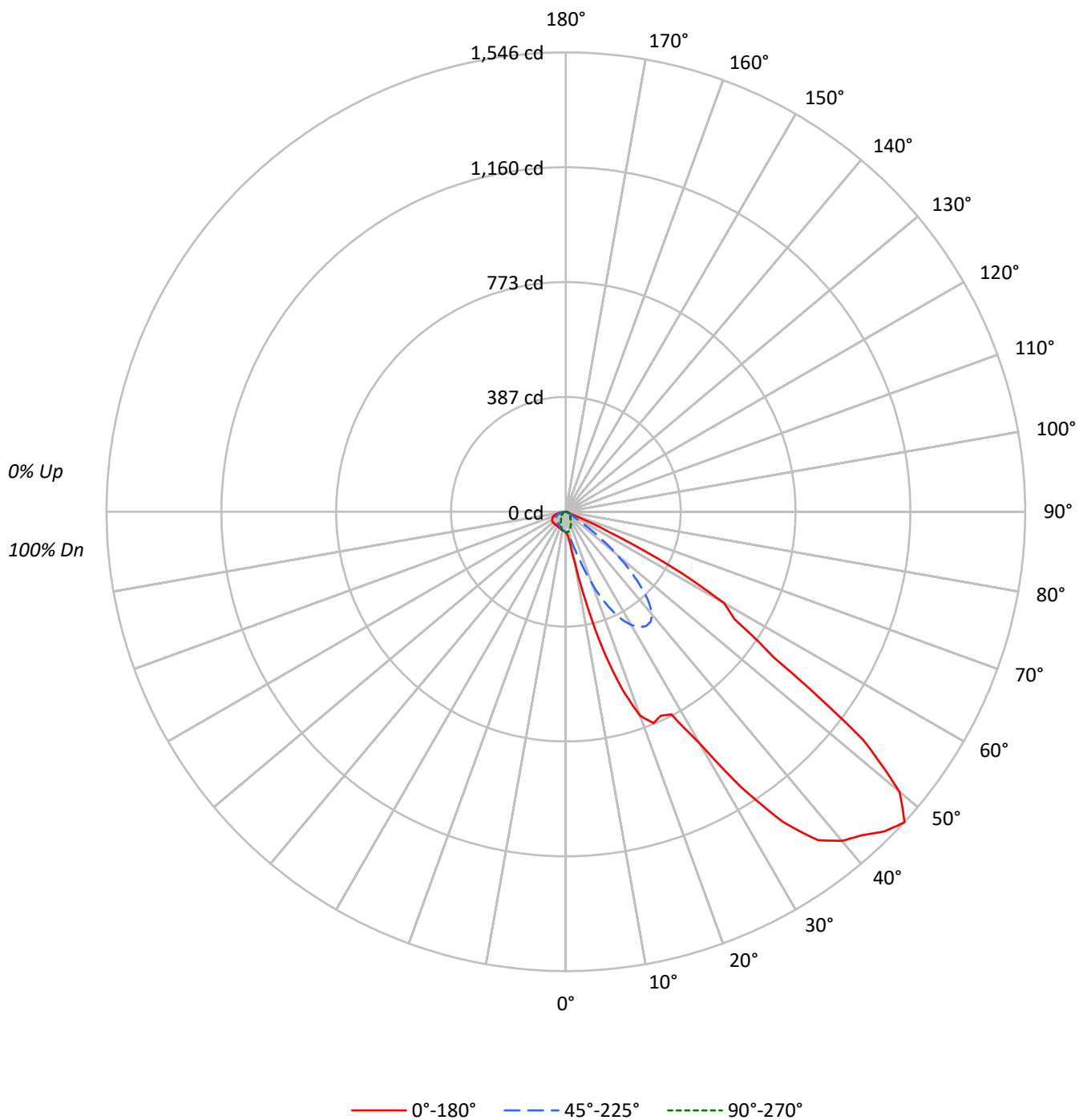
Lumens per Lamp: N/A
Luminaire Lumens: 872.0 lumens
Efficiency: N/A
Efficacy: 78.6 lumens/watt
Spacing Criteria (0/90/45): 3.58 / 0.82 / 1.91
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73		
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61		
4	83	71	63	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51		
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43		
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	50	43	39	37		
7	63	50	41	34	62	49	40	34	47	39	34	46	39	34	44	38	33	31		
8	58	44	36	30	57	44	35	29	42	35	29	41	34	29	40	34	29	27		
9	54	40	31	26	53	39	31	26	38	31	25	37	30	25	36	30	25	23		
10	50	36	28	23	49	36	28	22	35	27	22	34	27	22	33	27	22	20		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	11935	11935	11935	11935	11935
5°	14193	13277	11842	11324	11203
10°	30551	16456	11332	10930	11070
15°	84602	26994	10199	10466	10876
20°	133754	47340	8834	10080	10630
25°	143831	69550	7582	9729	10737
30°	178542	87322	6582	9585	11077
35°	267936	98815	5698	9650	11711
40°	324956	101596	5081	9982	12365
45°	370186	87146	4944	10644	13566
50°	392894	60124	5037	11494	15138
55°	256693	24201	4984	12431	16725
60°	211696	4168	4926	13502	18428
65°	63857	2160	4605	14426	20253
70°	2669	2266	4532	14804	22005
75°	2529	2529	4525	15038	24088
80°	2281	2281	4463	14976	24696
85°	1581	2964	5928	14820	23910

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 47.5°

Luminance: 394186 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.2	0.8
10°-20°	41.3	4.7
20°-30°	106.1	12.2
30°-40°	190.7	21.9
40°-50°	254.7	29.2
50°-60°	194.0	22.2
60°-70°	58.9	6.8
70°-80°	14.1	1.6
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°	154.7	17.7
0°-40°	345.3	39.6
0°-60°	794.0	91.0
0°-90°	872.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	872.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	69	69	69	69	69	
5°	82	77	68	66	65	11
15°	474	151	57	59	61	140
25°	757	366	40	51	56	361
35°	1274	470	27	46	56	782
45°	1520	358	20	44	56	1162
55°	855	81	17	41	56	850
65°	157	5	11	35	50	217
75°	4	4	7	23	36	4
85°	1	2	3	8	12	1
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3
2.5°	73.8	73.8	73.8	73.8	73.8	73.8	73.1	73.1	73.1	71.6	70.0
5°	82.1	82.8	82.1	82.1	80.6	80.6	79.1	79.1	76.8	72.3	68.5
7.5°	107.7	107.0	106.2	103.2	100.9	95.7	93.4	89.6	82.8	72.3	67.0
10°	174.7	170.2	167.2	160.4	146.1	137.1	125.0	113.0	94.1	72.3	64.8
12.5°	303.5	302.8	293.7	271.1	250.8	222.9	193.6	164.2	116.0	70.8	61.8
15°	474.5	467.7	454.9	428.6	392.4	348.7	296.0	244.0	151.4	68.5	57.2
17.5°	620.6	612.3	602.5	576.2	534.8	479.8	416.5	345.0	199.6	65.5	52.7
20°	729.8	724.6	716.3	695.2	656.0	606.3	535.5	448.9	258.3	61.8	48.2
22.5°	769.8	769.0	770.5	763.0	743.4	704.2	636.4	546.1	316.3	57.2	43.7
25°	756.9	756.2	766.0	775.8	780.3	764.5	712.5	624.4	366.0	53.5	39.9
27.5°	769.0	766.7	762.2	763.7	776.5	785.6	761.5	684.6	409.0	48.2	36.2
30°	897.8	885.0	864.7	830.0	804.4	802.1	791.6	732.1	439.1	42.9	33.1
32.5°	1098.9	1083.1	1046.2	982.1	921.1	874.4	841.3	772.0	460.2	37.7	29.4
35°	1274.4	1263.1	1220.2	1156.9	1069.5	982.1	921.9	830.8	470.0	33.1	27.1
37.5°	1393.4	1388.9	1346.7	1278.9	1190.0	1086.8	1007.0	891.0	467.7	27.9	24.9
40°	1445.4	1431.8	1396.4	1339.2	1249.5	1156.9	1072.5	929.4	451.9	22.6	22.6
42.5°	1476.2	1461.2	1422.8	1368.5	1280.4	1181.7	1080.1	912.9	414.2	18.1	21.8
45°	1519.9	1504.1	1453.6	1395.6	1306.8	1192.3	1050.7	854.1	357.8	13.6	20.3
47.5°	1546.3	1535.7	1498.1	1440.1	1332.4	1177.2	982.9	799.1	295.2	10.5	19.6
50°	1466.4	1455.9	1428.0	1388.1	1315.8	1126.8	923.4	710.2	224.4	8.3	18.8
52.5°	1262.3	1271.4	1276.6	1287.9	1235.2	1013.8	834.5	639.5	151.4	6.8	17.3
55°	854.9	868.4	883.5	928.7	990.4	902.3	741.1	552.8	80.6	6.8	16.6
57.5°	671.8	667.3	662.8	659.8	708.0	744.1	651.5	442.1	34.6	6.8	15.1
60°	614.6	601.0	592.0	594.3	618.4	604.1	515.9	288.5	12.1	6.8	14.3
62.5°	403.0	413.5	433.8	468.5	451.9	387.9	299.8	114.5	6.0	6.8	12.8
65°	156.7	151.4	156.7	166.5	143.9	107.0	67.0	20.3	5.3	6.0	11.3
67.5°	21.1	18.8	14.3	9.0	8.3	7.5	6.0	5.3	5.3	6.0	10.5
70°	5.3	5.3	5.3	5.3	5.3	5.3	5.3	4.5	4.5	5.3	9.0
72.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	5.3	7.5
75°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	4.5	6.8
77.5°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.8	5.3
80°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	3.0	4.5
82.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.3	2.3	3.0	3.8
85°	0.8	1.5	0.8	1.5	1.5	1.5	1.5	1.5	1.5	2.3	3.0
87.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.5	2.3	2.3
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):

	112.5°	135°	157.5°	180°
0°	69.3	69.3	69.3	69.3
2.5°	68.5	67.0	67.0	67.0
5°	67.0	65.5	65.5	64.8
7.5°	64.8	64.0	64.0	64.0
10°	63.3	62.5	63.3	63.3
12.5°	60.3	61.0	61.8	61.8
15°	57.2	58.7	60.3	61.0
17.5°	54.2	57.2	58.7	59.5
20°	51.2	55.0	57.2	58.0
22.5°	49.0	52.7	55.7	57.2
25°	45.9	51.2	55.0	56.5
27.5°	42.9	49.0	53.5	55.7
30°	40.7	48.2	53.5	55.7
32.5°	38.4	46.7	52.7	55.0
35°	36.9	45.9	52.7	55.7
37.5°	35.4	45.2	52.7	55.0
40°	34.6	44.4	52.7	55.0
42.5°	33.9	44.4	52.7	55.7
45°	32.4	43.7	52.7	55.7
47.5°	31.6	43.7	52.7	55.7
50°	30.9	42.9	52.7	56.5
52.5°	30.1	42.2	52.7	56.5
55°	28.6	41.4	52.0	55.7
57.5°	27.9	40.7	51.2	54.2
60°	26.4	39.2	49.7	53.5
62.5°	24.9	37.7	48.2	51.2
65°	22.6	35.4	45.9	49.7
67.5°	20.3	32.4	43.7	47.5
70°	18.1	29.4	40.7	43.7
72.5°	15.8	26.4	37.7	39.9
75°	13.6	22.6	33.1	36.2
77.5°	11.3	19.6	27.9	30.1
80°	8.3	15.1	22.6	24.9
82.5°	6.8	11.3	16.6	18.1
85°	4.5	7.5	10.5	12.1
87.5°	2.3	3.8	5.3	6.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)