

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: P1308999

Luminaire Tested: P3SQAS09R459035DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1308999
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-84)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS09R459035DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R45 optic, 3500K CCT AND, 90CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

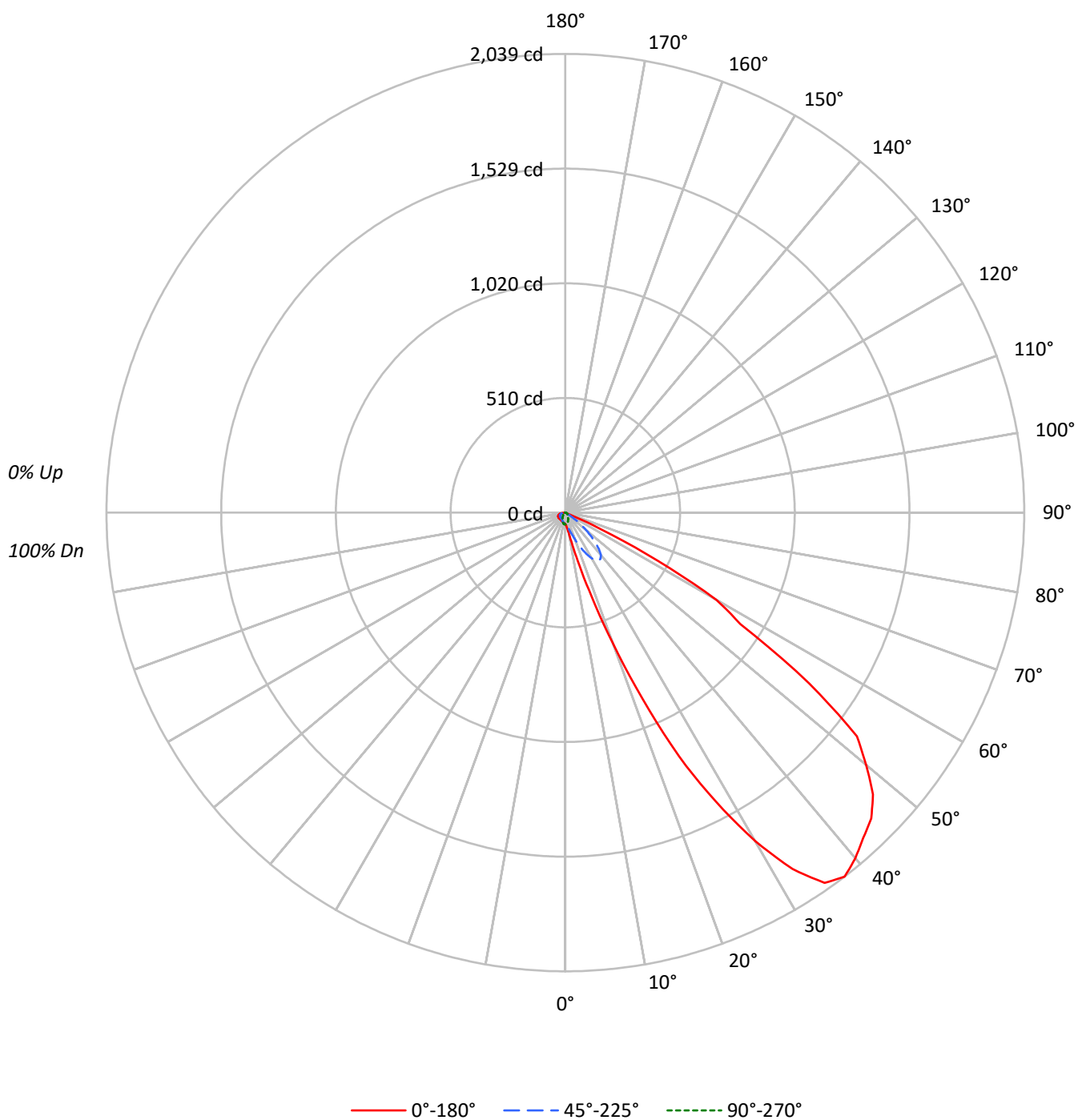
Lumens per Lamp: N/A
Luminaire Lumens: 911.0 lumens
Efficiency: N/A
Efficacy: 82.1 lumens/watt
Spacing Criteria (0/90/45): 3.81 / 0.82 / 1.83
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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
RW	70	50	30	10	70	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
1	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53
5	76	63	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38
7	63	49	40	34	61	48	40	33	47	39	33	45	38	33	44	37	33
8	58	44	35	29	56	43	35	29	42	34	29	40	33	28	39	33	28
9	53	39	31	25	52	39	30	25	38	30	25	36	29	25	35	29	24
10	49	36	27	22	48	35	27	22	34	27	21	33	26	21	32	26	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	9076	9076	9076	9076	9076
5°	10805	10027	8972	8333	8333
10°	17243	11717	8429	7905	7905
15°	42952	15708	7649	7382	7649
20°	113118	23459	6616	7038	7441
25°	227139	34756	5720	6575	7297
30°	334870	46554	4634	6443	7477
35°	422403	54601	3953	6328	7758
40°	450653	55171	3552	6610	8296
45°	468243	46008	3288	7161	8987
50°	467486	32071	3215	7663	10074
55°	397335	14232	3393	8587	11080
60°	267048	2859	3376	9610	12710
65°	70867	1223	3382	10432	14426
70°	1913	1511	3424	11380	16315
75°	1530	1530	3527	12044	18565
80°	1488	2281	3769	12695	20927
85°	1581	2964	5928	13437	20748

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 10°

Vertical Angle: 47.5°

Luminance: 480298 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.2	0.6
10°-20°	25.7	2.8
20°-30°	106.0	11.6
30°-40°	223.3	24.5
40°-50°	275.6	30.2
50°-60°	206.5	22.7
60°-70°	53.2	5.8
70°-80°	11.0	1.2
80°-90°	4.5	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°	136.9	15.0
0°-40°	360.3	39.5
0°-60°	842.4	92.5
0°-90°	911.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	911.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	53	53	53	53	53	
5°	62	58	52	48	48	7
15°	241	88	43	41	43	88
25°	1195	183	30	35	38	557
35°	2009	260	19	30	37	1224
45°	1922	189	14	29	37	1471
55°	1323	47	11	29	37	1143
65°	174	3	8	26	35	251
75°	2	2	5	18	28	3
85°	1	2	3	7	10	1
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7
2.5°	55.7	55.7	55.7	55.7	55.7	55.7	55.7	54.9	54.2	52.7	51.2
5°	62.5	61.7	61.7	61.7	61.0	60.2	60.2	58.0	54.9	51.9	49.7
7.5°	73.8	73.8	73.0	71.5	70.8	69.3	67.7	61.7	54.9	50.4	47.4
10°	98.6	97.1	94.8	93.3	89.6	84.3	80.5	67.0	54.2	48.2	45.9
12.5°	147.5	150.5	143.0	135.5	125.0	115.2	103.1	76.0	54.2	45.9	43.7
15°	240.9	246.1	231.8	216.8	191.2	167.1	144.5	88.1	52.7	42.9	40.6
17.5°	393.7	400.5	376.4	341.0	301.1	252.9	211.5	104.6	51.2	39.9	38.4
20°	617.2	616.5	569.8	525.4	448.6	377.9	300.3	128.0	48.9	36.1	36.1
22.5°	892.0	895.0	837.8	758.0	648.9	535.2	411.7	155.1	45.9	33.1	33.9
25°	1195.3	1169.8	1102.0	1004.9	865.6	708.3	545.7	182.9	42.9	30.1	31.6
27.5°	1448.3	1423.4	1345.9	1230.7	1080.9	894.3	682.0	210.8	39.1	27.1	29.4
30°	1683.9	1652.3	1558.9	1428.7	1250.3	1048.6	809.9	234.1	34.6	23.3	27.1
32.5°	1878.1	1849.5	1743.3	1592.0	1397.8	1181.0	918.3	252.2	30.1	21.1	25.6
35°	2009.1	1979.7	1881.8	1715.5	1504.0	1277.4	1006.4	259.7	26.3	18.8	24.8
37.5°	2039.2	2023.4	1953.4	1797.5	1577.0	1339.1	1062.9	257.4	21.8	17.3	23.3
40°	2004.5	2008.3	1975.2	1845.7	1616.1	1365.5	1086.2	245.4	18.1	15.8	22.6
42.5°	1960.1	1969.9	1967.7	1865.3	1632.7	1367.0	1076.4	221.3	14.3	14.3	21.8
45°	1922.5	1932.3	1945.8	1857.0	1621.4	1347.4	1045.6	188.9	10.5	13.5	21.8
47.5°	1854.0	1864.5	1884.1	1790.8	1564.2	1297.0	989.8	153.6	7.5	12.8	21.1
50°	1744.8	1750.1	1744.8	1640.2	1454.3	1215.7	899.5	119.7	5.3	12.0	21.1
52.5°	1632.7	1622.1	1578.5	1446.0	1279.7	1087.0	785.9	85.1	3.8	11.3	20.3
55°	1323.3	1306.8	1274.4	1193.1	1098.2	928.9	635.3	47.4	3.8	11.3	19.6
57.5°	922.1	931.1	942.4	925.9	882.2	731.7	482.5	21.1	3.8	10.5	19.6
60°	775.3	767.8	768.5	758.0	685.7	533.7	332.0	8.3	3.8	9.8	18.8
62.5°	462.9	468.2	478.0	480.2	408.7	298.1	173.9	3.8	3.8	9.0	18.1
65°	173.9	182.2	159.6	138.5	109.9	80.5	40.6	3.0	4.5	8.3	16.6
67.5°	5.3	6.0	7.5	6.8	6.8	6.0	4.5	3.0	4.5	7.5	15.8
70°	3.8	3.8	3.8	3.8	3.8	3.0	3.0	3.0	3.8	6.8	14.3
72.5°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.8	6.0	12.8
75°	2.3	3.0	2.3	2.3	2.3	2.3	2.3	2.3	3.8	5.3	10.5
77.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	3.0	4.5	9.0
80°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.3	3.0	3.8	7.5
82.5°	1.5	1.5	1.5	0.8	1.5	1.5	1.5	1.5	3.0	3.0	6.0
85°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.5	2.3	3.0	3.8
87.5°	0.0	0.0	0.0	0.0	0.8	0.8	0.8	1.5	2.3	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):

	135°	157.5°	180°
0°	52.7	52.7	52.7
2.5°	49.7	49.7	49.7
5°	48.2	48.2	48.2
7.5°	46.7	46.7	46.7
10°	45.2	45.2	45.2
12.5°	43.7	43.7	44.4
15°	41.4	42.9	42.9
17.5°	39.9	41.4	42.2
20°	38.4	39.9	40.6
22.5°	36.1	38.4	39.9
25°	34.6	37.6	38.4
27.5°	33.1	36.9	38.4
30°	32.4	36.1	37.6
32.5°	30.9	35.4	36.9
35°	30.1	35.4	36.9
37.5°	30.1	34.6	36.9
40°	29.4	34.6	36.9
42.5°	29.4	34.6	36.9
45°	29.4	34.6	36.9
47.5°	28.6	34.6	37.6
50°	28.6	35.4	37.6
52.5°	28.6	35.4	37.6
55°	28.6	35.4	36.9
57.5°	27.9	34.6	36.9
60°	27.9	34.6	36.9
62.5°	26.3	33.9	36.1
65°	25.6	33.1	35.4
67.5°	24.1	32.4	33.9
70°	22.6	30.1	32.4
72.5°	20.3	28.6	30.9
75°	18.1	26.3	27.9
77.5°	15.8	23.3	24.8
80°	12.8	19.6	21.1
82.5°	9.8	15.1	15.8
85°	6.8	9.8	10.5
87.5°	3.0	4.5	5.3
90°	0.0	0.0	0.0

(END OF REPORT)