

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: P1314266

Luminaire Tested: P3SQAS09R509735DE010 E3SQCA451MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1314266
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: P3SQAS09R509735DE010 E3SQCA451MW
Description: 3in Adjustable LED luminaire with, R50 optic, 3500K CCT AND, 97CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

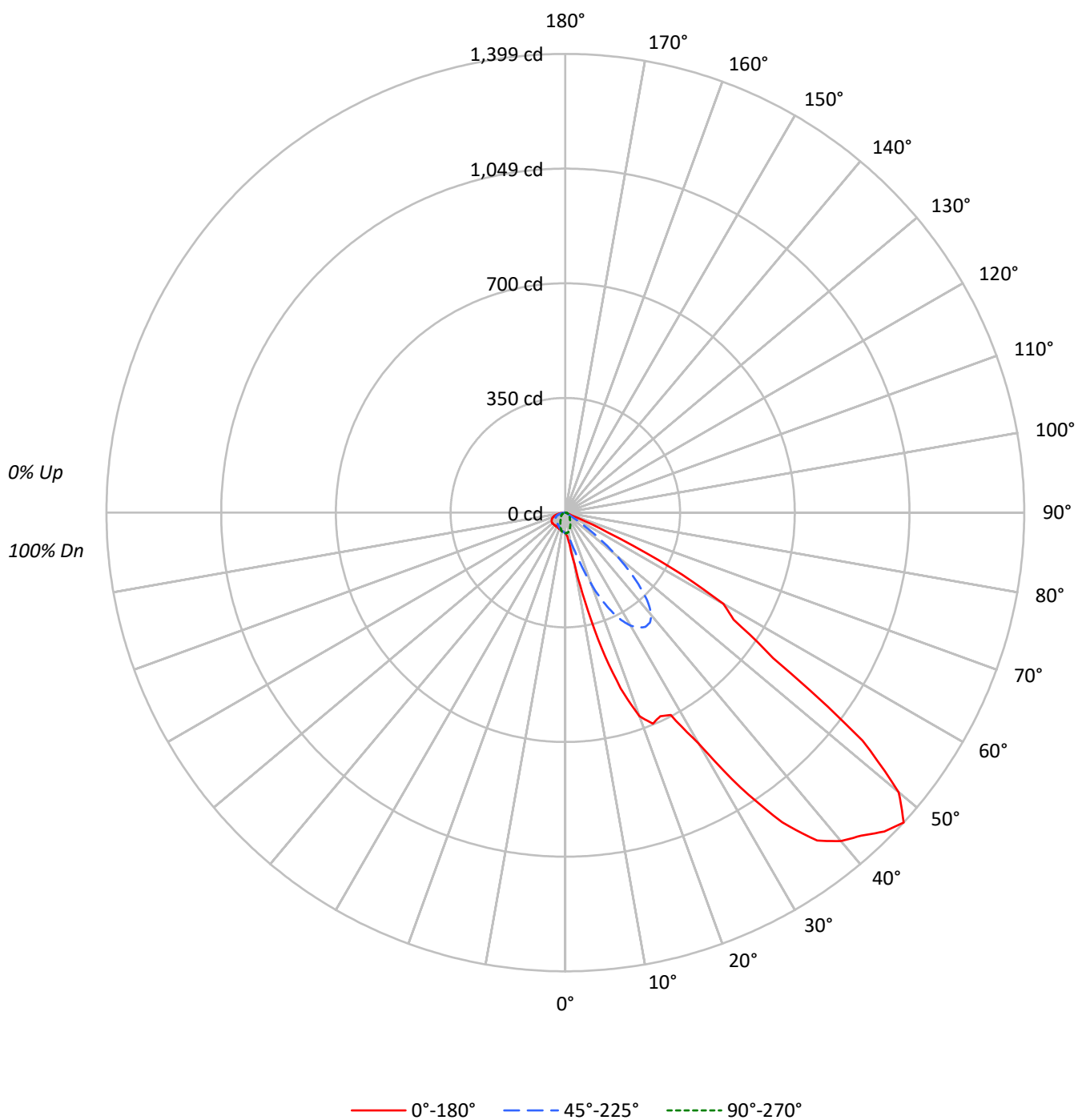
Lumens per Lamp: N/A
Luminaire Lumens: 789.0 lumens
Efficiency: N/A
Efficacy: 71.1 lumens/watt
Spacing Criteria (0/90/45): 3.58 / 0.82 / 1.91
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	10798	10798	10798	10798	10798
5°	12845	12015	10719	10252	10131
10°	27648	14900	10248	9898	10003
15°	76543	24427	9236	9485	9842
20°	121035	42850	7991	9109	9622
25°	130149	62937	6860	8798	9710
30°	161539	79009	5966	8671	10023
35°	242434	89396	5151	8746	10596
40°	294020	91929	4586	9038	11174
45°	334943	78840	4481	9621	12275
50°	355517	54417	4555	10396	13691
55°	232252	21889	4504	11260	15133
60°	191546	3754	4443	12193	16671
65°	57745	1956	4157	13040	18338
70°	2417	2065	4129	13394	19890
75°	2262	2262	4059	13575	21759
80°	1984	1984	4066	13488	22315
85°	1383	2766	5335	13437	21539

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 47.5°

Luminance: 356661 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.5	0.8
10°-20°	37.4	4.7
20°-30°	96.0	12.2
30°-40°	172.5	21.9
40°-50°	230.4	29.2
50°-60°	175.5	22.2
60°-70°	53.3	6.8
70°-80°	12.7	1.6
80°-90°	4.6	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°	139.9	17.7
0°-40°	312.4	39.6
0°-60°	718.4	91.1
0°-90°	789.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	789.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	63	63	63	63	63	
5°	74	70	62	59	59	10
15°	429	137	52	53	55	126
25°	685	331	36	46	51	327
35°	1153	425	24	42	50	708
45°	1375	324	18	40	50	1051
55°	774	73	15	38	50	770
65°	142	5	10	32	45	196
75°	3	3	6	20	33	4
85°	1	1	3	7	11	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°	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7
2.5°	66.8	66.8	66.8	66.8	66.8	66.8	66.1	66.1	66.1	64.7	63.4
5°	74.3	75.0	74.3	74.3	72.9	72.9	71.6	71.6	69.5	65.4	62.0
7.5°	97.5	96.8	96.1	93.4	91.3	86.5	84.5	81.1	75.0	65.4	60.7
10°	158.1	154.0	151.3	145.2	132.2	124.0	113.1	102.2	85.2	65.4	58.6
12.5°	274.6	274.0	265.8	245.3	226.9	201.7	175.1	148.6	104.9	64.1	55.9
15°	429.3	423.2	411.6	387.8	355.1	315.5	267.8	220.8	137.0	62.0	51.8
17.5°	561.5	554.1	545.2	521.3	483.9	434.1	376.9	312.1	180.6	59.3	47.7
20°	660.4	655.6	648.1	629.0	593.6	548.6	484.5	406.2	233.8	55.9	43.6
22.5°	696.5	695.8	697.2	690.3	672.6	637.2	575.9	494.1	286.2	51.8	39.5
25°	684.9	684.2	693.1	701.9	706.0	691.7	644.7	565.0	331.2	48.4	36.1
27.5°	695.8	693.8	689.7	691.0	702.6	710.8	689.0	619.5	370.0	43.6	32.7
30°	812.3	800.8	782.4	751.0	727.8	725.8	716.2	662.4	397.3	38.8	30.0
32.5°	994.3	980.0	946.6	888.7	833.5	791.2	761.2	698.5	416.4	34.1	26.6
35°	1153.1	1142.9	1104.0	1046.8	967.7	888.7	834.1	751.7	425.2	30.0	24.5
37.5°	1260.8	1256.7	1218.5	1157.2	1076.8	983.4	911.2	806.2	423.2	25.2	22.5
40°	1307.8	1295.5	1263.5	1211.7	1130.6	1046.8	970.4	841.0	408.9	20.4	20.4
42.5°	1335.7	1322.1	1287.3	1238.3	1158.5	1069.3	977.3	826.0	374.8	16.4	19.8
45°	1375.2	1360.9	1315.3	1262.8	1182.4	1078.8	950.7	772.8	323.7	12.3	18.4
47.5°	1399.1	1389.6	1355.5	1303.0	1205.6	1065.2	889.3	723.1	267.1	9.5	17.7
50°	1326.9	1317.3	1292.1	1256.0	1190.6	1019.5	835.5	642.6	203.1	7.5	17.0
52.5°	1142.2	1150.4	1155.1	1165.3	1117.6	917.3	755.1	578.6	137.0	6.1	15.7
55°	773.5	785.8	799.4	840.3	896.2	816.4	670.6	500.2	72.9	6.1	15.0
57.5°	607.9	603.8	599.7	597.0	640.6	673.3	589.5	400.0	31.3	6.1	13.6
60°	556.1	543.8	535.7	537.7	559.5	546.6	466.8	261.0	10.9	6.1	12.9
62.5°	364.6	374.1	392.5	423.9	408.9	351.0	271.2	103.6	5.5	6.1	11.6
65°	141.7	137.0	141.7	150.6	130.2	96.8	60.7	18.4	4.8	5.5	10.2
67.5°	19.1	17.0	12.9	8.2	7.5	6.8	5.5	4.8	4.8	5.5	9.5
70°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.1	4.1	4.8	8.2
72.5°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.8	6.8
75°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	4.1	6.1
77.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	3.4	4.8
80°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.7	4.1
82.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.0	2.0	2.7	3.4
85°	0.7	1.4	0.7	1.4	1.4	1.4	1.4	1.4	1.4	2.0	2.7
87.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.4	2.0	2.0
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):

	112.5°	135°	157.5°	180°
0°	62.7	62.7	62.7	62.7
2.5°	62.0	60.7	60.7	60.7
5°	60.7	59.3	59.3	58.6
7.5°	58.6	57.9	57.9	57.9
10°	57.2	56.6	57.2	57.2
12.5°	54.5	55.2	55.9	55.9
15°	51.8	53.2	54.5	55.2
17.5°	49.1	51.8	53.2	53.8
20°	46.3	49.7	51.8	52.5
22.5°	44.3	47.7	50.4	51.8
25°	41.6	46.3	49.7	51.1
27.5°	38.8	44.3	48.4	50.4
30°	36.8	43.6	48.4	50.4
32.5°	34.8	42.3	47.7	49.7
35°	33.4	41.6	47.7	50.4
37.5°	32.0	40.9	47.7	49.7
40°	31.3	40.2	47.7	49.7
42.5°	30.7	40.2	47.7	50.4
45°	29.3	39.5	47.7	50.4
47.5°	28.6	39.5	47.7	50.4
50°	27.9	38.8	47.7	51.1
52.5°	27.3	38.2	47.7	51.1
55°	25.9	37.5	47.0	50.4
57.5°	25.2	36.8	46.3	49.1
60°	23.9	35.4	45.0	48.4
62.5°	22.5	34.1	43.6	46.3
65°	20.4	32.0	41.6	45.0
67.5°	18.4	29.3	39.5	42.9
70°	16.4	26.6	36.8	39.5
72.5°	14.3	23.9	34.1	36.1
75°	12.3	20.4	30.0	32.7
77.5°	10.2	17.7	25.2	27.3
80°	7.5	13.6	20.4	22.5
82.5°	6.1	10.2	15.0	16.4
85°	4.1	6.8	9.5	10.9
87.5°	2.0	3.4	4.8	5.5
90°	0.0	0.0	0.0	0.0

(END OF REPORT)