

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: P1316616

Luminaire Tested: P3SQAS20R709827D010 E3SQCA451MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1316616
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-83)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS20R709827D010 E3SQCA451MW
Description: 3in Adjustable LED luminaire with, R70 optic, 2700K CCT AND, 98CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

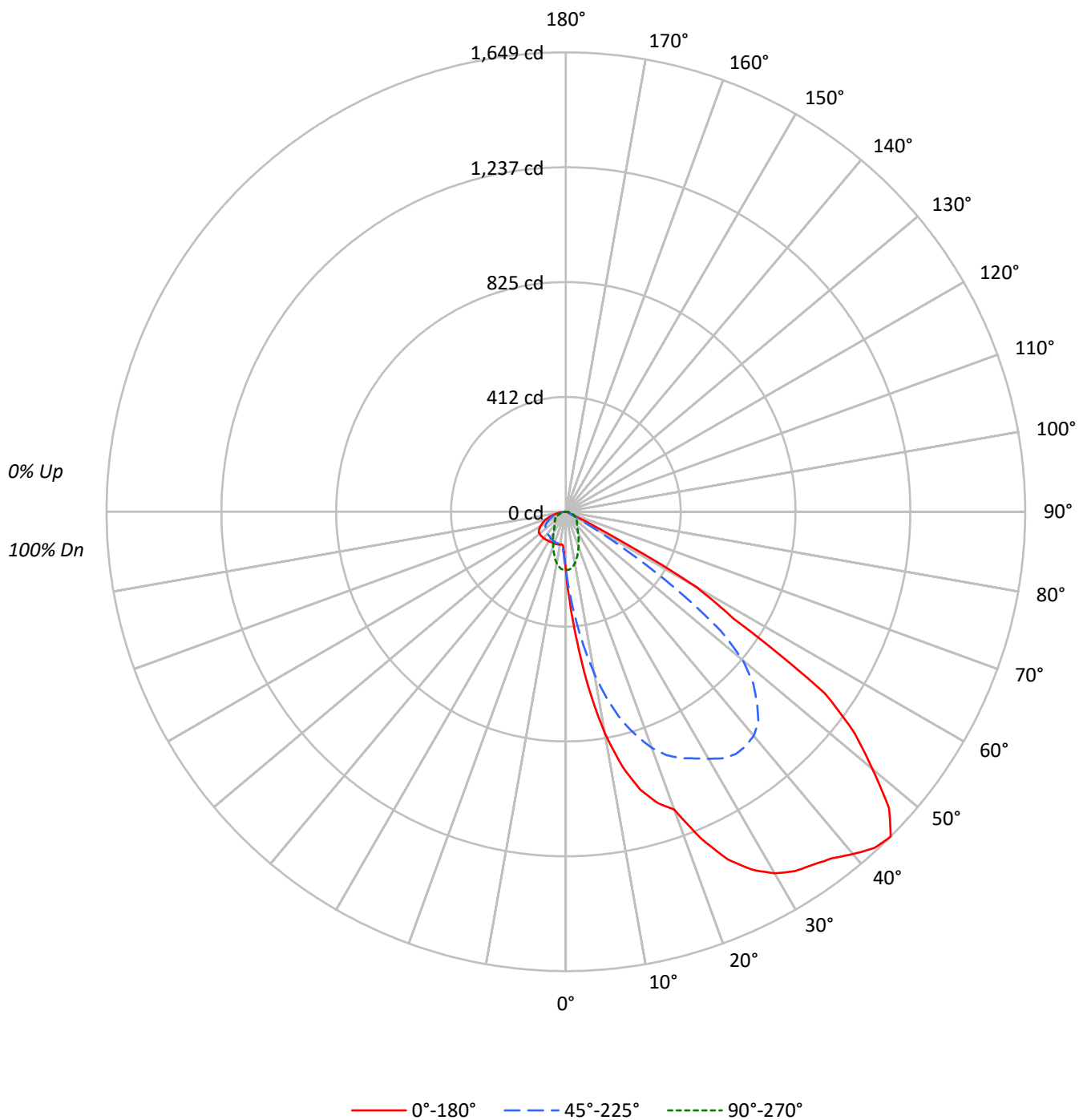
Lumens per Lamp: N/A
Luminaire Lumens: 1425.0 lumens
Efficiency: N/A
Efficacy: 52.0 lumens/watt
Spacing Criteria (0/90/45): 2.92 / 0.77 / 2.03
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 27.4
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	103	99	108	104	101	98	100	97	95	96	94	92	93	91	89	87		
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	75		
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	74	69	66	64		
4	85	74	66	59	83	72	65	59	70	63	58	68	62	57	66	61	57	54		
5	78	66	57	51	76	65	57	51	63	55	50	61	54	49	59	53	49	47		
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	41		
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	35		
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33	31		
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28		
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	35753	35753	35753	35753	35753
5°	81358	65141	35389	22371	20884
10°	140970	103424	32825	20391	20881
15°	184039	138145	28652	20790	21538
20°	208458	165205	24486	21113	22415
25°	261800	185333	20542	21340	22955
30°	298000	203559	17520	21776	24321
35°	325207	223280	15243	22118	25713
40°	360545	235882	14074	23022	27810
45°	401678	236155	13859	24234	30128
50°	384722	222088	13718	25534	32768
55°	340646	143855	14082	26903	35431
60°	186586	30862	14191	27418	36718
65°	13326	7539	13896	27222	37084
70°	6445	7150	12891	25782	35802
75°	5656	7586	12310	24620	33138
80°	5653	7042	11306	22514	31043
85°	5533	8497	11263	19760	28060

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 401678 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.1	1.9
10°-20°	115.8	8.1
20°-30°	222.2	15.6
30°-40°	314.2	22.0
40°-50°	355.4	24.9
50°-60°	281.5	19.8
60°-70°	75.9	5.3
70°-80°	25.2	1.8
80°-90°	7.7	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°	365.1	25.6
0°-40°	679.3	47.7
0°-60°	1316.2	92.4
0°-90°	1425.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1425.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	208	208	208	208	208	
5°	471	377	205	129	121	56
15°	1032	775	161	117	121	291
25°	1378	975	108	112	121	631
35°	1547	1062	72	105	122	974
45°	1649	970	57	100	124	1234
55°	1134	479	47	90	118	921
65°	33	18	34	67	91	118
75°	8	11	18	37	50	9
85°	3	4	6	10	14	3
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°	207.6	207.6	207.6	207.6	207.6	207.6	207.6	207.6	207.6	207.6	207.6
2.5°	322.7	322.7	321.3	315.6	312.8	305.7	300.0	284.3	246.0	209.0	179.1
5°	470.6	477.7	467.7	466.3	457.8	445.0	436.5	376.8	284.3	204.7	153.5
7.5°	645.5	648.3	645.5	631.2	618.5	597.1	577.2	483.4	322.7	197.6	135.1
10°	806.1	801.9	793.3	783.4	764.9	742.1	708.0	591.4	359.7	187.7	123.7
12.5°	936.9	935.5	925.5	915.6	892.8	863.0	828.9	689.5	391.0	174.9	118.0
15°	1032.2	1032.2	1022.2	1010.8	989.5	965.4	927.0	774.8	416.6	160.7	112.3
17.5°	1096.1	1093.3	1086.2	1077.7	1060.6	1036.4	1006.6	843.1	433.6	146.4	110.9
20°	1137.4	1136.0	1130.3	1117.5	1103.3	1084.8	1057.8	901.4	440.7	133.6	109.5
22.5°	1269.6	1258.2	1236.9	1209.9	1175.8	1131.7	1094.7	945.4	437.9	119.4	106.6
25°	1377.7	1373.4	1350.6	1317.9	1272.4	1215.6	1154.4	975.3	423.7	108.1	103.8
27.5°	1448.7	1441.6	1420.3	1384.8	1336.4	1281.0	1224.1	998.1	403.8	98.1	99.5
30°	1498.5	1494.2	1472.9	1433.1	1383.3	1322.2	1263.9	1023.6	376.8	88.1	95.3
32.5°	1529.8	1525.5	1504.2	1468.6	1420.3	1356.3	1289.5	1049.2	344.1	79.6	91.0
35°	1546.8	1542.6	1518.4	1487.1	1441.6	1379.1	1308.0	1062.0	304.2	72.5	86.7
37.5°	1568.2	1559.6	1526.9	1488.5	1443.1	1384.8	1313.7	1060.6	264.4	66.8	83.9
40°	1603.7	1581.0	1534.0	1482.9	1435.9	1377.7	1309.4	1049.2	220.4	62.6	81.0
42.5°	1637.8	1605.1	1535.5	1474.3	1421.7	1364.9	1293.8	1023.6	172.0	59.7	79.6
45°	1649.2	1600.9	1515.6	1454.4	1404.7	1346.4	1272.4	969.6	116.6	56.9	76.8
47.5°	1573.8	1538.3	1467.2	1421.7	1374.8	1317.9	1241.2	912.7	66.8	54.0	73.9
50°	1435.9	1413.2	1373.4	1345.0	1319.4	1279.6	1204.2	828.9	39.8	51.2	71.1
52.5°	1308.0	1300.9	1272.4	1249.7	1235.5	1217.0	1148.8	699.5	32.7	49.8	68.2
55°	1134.5	1111.8	1104.7	1096.1	1126.0	1124.6	1032.2	479.1	31.3	46.9	65.4
57.5°	712.3	722.2	759.2	827.4	908.5	955.4	952.6	255.9	29.9	44.1	61.1
60°	541.7	540.3	551.6	580.1	639.8	706.6	769.2	89.6	28.4	41.2	58.3
62.5°	162.1	166.3	200.5	294.3	352.6	435.0	396.7	21.3	27.0	37.0	52.6
65°	32.7	34.1	34.1	38.4	46.9	71.1	86.7	18.5	25.6	34.1	48.3
67.5°	14.2	14.2	14.2	15.6	15.6	18.5	15.6	17.1	22.7	29.9	42.7
70°	12.8	12.8	12.8	12.8	12.8	12.8	14.2	14.2	19.9	25.6	37.0
72.5°	10.0	10.0	10.0	11.4	11.4	11.4	11.4	12.8	17.1	21.3	31.3
75°	8.5	8.5	8.5	8.5	10.0	10.0	10.0	11.4	14.2	18.5	25.6
77.5°	7.1	7.1	7.1	7.1	7.1	8.5	8.5	8.5	11.4	14.2	21.3
80°	5.7	5.7	5.7	5.7	5.7	5.7	5.7	7.1	8.5	11.4	15.6
82.5°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	5.7	7.1	8.5	11.4
85°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	4.3	4.3	5.7	7.1
87.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.8	2.8	2.8	4.3
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°	207.6	207.6	207.6
2.5°	157.8	149.3	145.0
5°	129.4	122.3	120.8
7.5°	119.4	118.0	118.0
10°	116.6	118.0	119.4
12.5°	116.6	119.4	120.8
15°	116.6	119.4	120.8
17.5°	116.6	119.4	120.8
20°	115.2	119.4	122.3
22.5°	113.7	119.4	120.8
25°	112.3	119.4	120.8
27.5°	110.9	118.0	120.8
30°	109.5	118.0	122.3
32.5°	106.6	118.0	122.3
35°	105.2	118.0	122.3
37.5°	103.8	118.0	123.7
40°	102.4	118.0	123.7
42.5°	100.9	118.0	123.7
45°	99.5	116.6	123.7
47.5°	96.7	116.6	123.7
50°	95.3	115.2	122.3
52.5°	92.4	113.7	122.3
55°	89.6	110.9	118.0
57.5°	85.3	106.6	112.3
60°	79.6	100.9	106.6
62.5°	72.5	93.8	98.1
65°	66.8	85.3	91.0
67.5°	58.3	75.4	81.0
70°	51.2	65.4	71.1
72.5°	44.1	55.4	61.1
75°	37.0	45.5	49.8
77.5°	28.4	37.0	39.8
80°	22.7	28.4	31.3
82.5°	15.6	19.9	21.3
85°	10.0	12.8	14.2
87.5°	4.3	5.7	5.7
90°	0.0	0.0	0.0

(END OF REPORT)