

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: P1310769

Luminaire Tested: P3SQAS24R659040D010 E3SQCA451MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1310769
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-82)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS24R659040D010 E3SQCA451MW
Description: 3in Adjustable LED luminaire with, R65 optic, 4000K CCT AND, 90CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

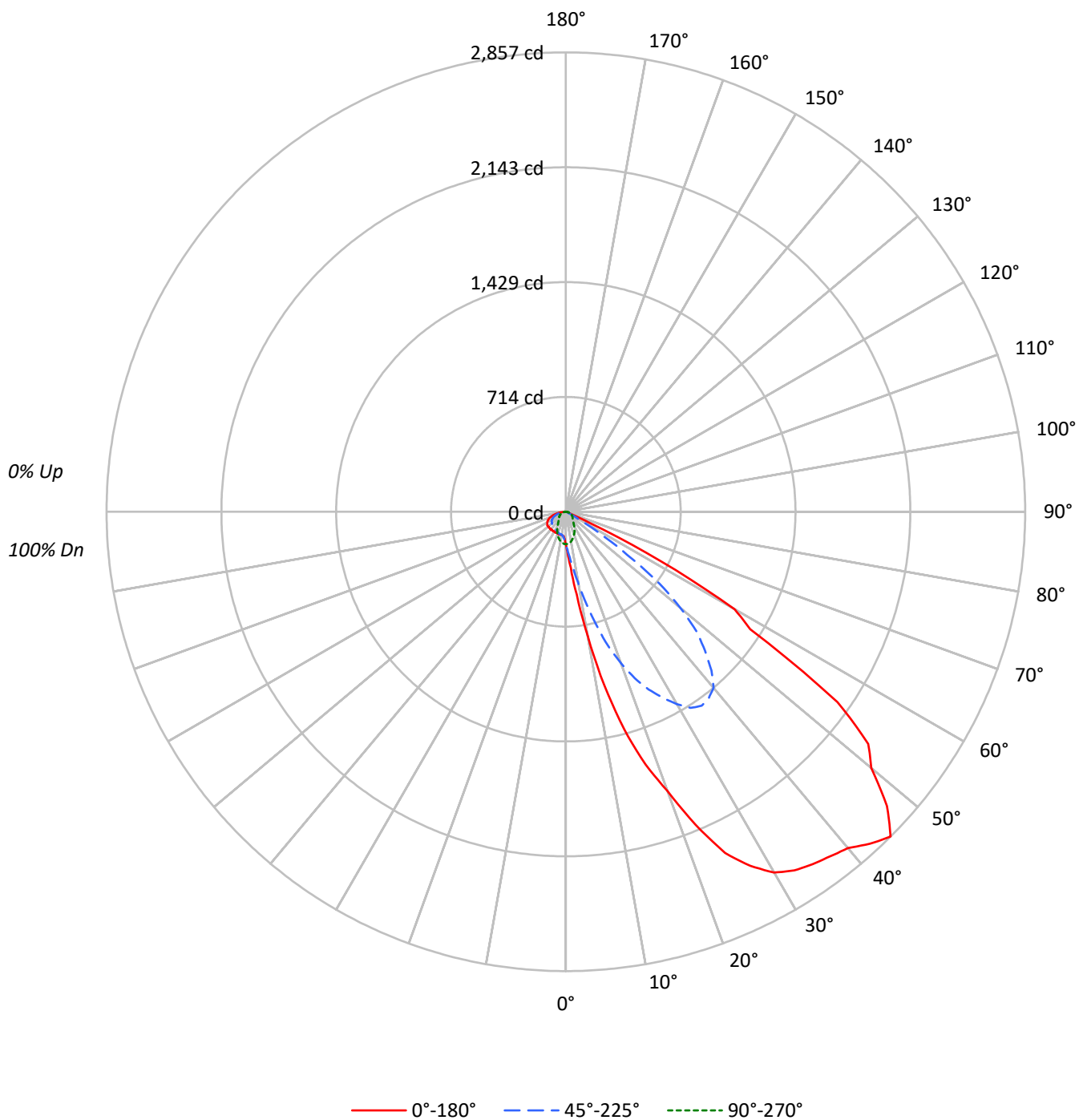
Lumens per Lamp: N/A
Luminaire Lumens: 2072.0 lumens
Efficiency: N/A
Efficacy: 71.9 lumens/watt
Spacing Criteria (0/90/45): 3.28 / 0.89 / 2.04
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 28.8
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	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	108	104	100	97	100	97	94	96	94	91	92	90	89	87		
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	74		
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	62		
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55	53		
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45		
6	71	57	49	42	69	57	48	42	55	47	42	53	46	41	51	46	41	39		
7	65	52	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	34		
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29		
9	56	42	34	28	54	41	33	28	40	33	28	39	33	28	38	32	28	26		
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	34703	34703	34703	34703	34703
5°	60698	49565	34127	27661	26572
10°	137333	79937	32702	25427	25795
15°	249653	128535	30382	25550	26299
20°	338492	183532	27418	25512	26648
25°	444928	231738	24076	24874	27231
30°	515201	274753	20662	24799	28497
35°	562574	309691	17471	25335	30128
40°	613738	321336	15423	26619	32217
45°	695752	298044	14662	28326	34902
50°	664629	248827	14468	30062	38394
55°	619438	139741	14983	32428	42427
60°	417192	30070	15018	34341	45811
65°	64346	7621	14385	35576	49961
70°	7301	7301	13596	36608	53376
75°	6920	6920	12443	35933	53899
80°	6149	8232	12397	32927	53557
85°	4150	8299	12251	32802	49203

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 695752 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	24.4	1.2
10°-20°	131.7	6.4
20°-30°	309.5	14.9
30°-40°	467.7	22.6
40°-50°	537.6	25.9
50°-60°	426.8	20.6
60°-70°	127.8	6.2
70°-80°	34.7	1.7
80°-90°	11.7	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°	465.7	22.5
0°-40°	933.4	45.0
0°-60°	1897.7	91.6
0°-90°	2072.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2072.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	202	202	202	202	202	
5°	351	287	197	160	154	47
15°	1400	721	170	143	148	403
25°	2341	1220	127	131	143	1069
35°	2676	1473	83	120	143	1679
45°	2857	1224	60	116	143	2122
55°	2063	465	50	108	141	1700
65°	158	19	35	87	123	354
75°	10	10	19	54	81	11
85°	2	4	6	17	25	3
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°	201.5	201.5	201.5	201.5	201.5	201.5	201.5	201.5	201.5	201.5	201.5
2.5°	255.5	257.6	255.5	255.5	253.5	251.4	236.8	220.2	201.5	187.0	176.6
5°	351.1	353.2	346.9	346.9	342.8	336.6	286.7	238.9	197.4	174.5	160.0
7.5°	519.4	527.7	517.3	504.8	482.0	477.8	357.3	257.6	193.2	162.0	149.6
10°	785.3	779.1	768.7	743.8	704.3	685.6	457.1	276.3	187.0	153.7	145.4
12.5°	1107.3	1090.7	1078.2	1032.5	978.5	947.4	581.7	292.9	178.7	145.4	143.3
15°	1400.2	1387.8	1358.7	1315.1	1248.6	1223.7	720.9	303.3	170.4	139.2	143.3
17.5°	1647.5	1635.0	1618.4	1574.8	1506.2	1468.8	876.7	309.6	160.0	135.0	141.3
20°	1846.9	1838.6	1815.8	1780.4	1711.9	1676.6	1001.4	309.6	149.6	130.9	139.2
22.5°	2104.5	2085.8	2056.7	2004.8	1919.6	1865.6	1119.8	303.3	139.2	126.7	135.0
25°	2341.4	2328.9	2291.5	2229.2	2137.8	2083.8	1219.5	290.9	126.7	120.5	130.9
27.5°	2482.6	2474.3	2439.0	2374.6	2272.8	2231.3	1302.6	272.2	114.3	114.3	128.8
30°	2590.7	2574.0	2538.7	2476.4	2372.5	2322.7	1381.6	249.3	103.9	108.0	124.7
32.5°	2644.7	2638.5	2607.3	2553.3	2451.5	2395.4	1446.0	220.2	91.4	103.9	122.6
35°	2675.8	2669.6	2644.7	2592.7	2497.2	2443.2	1473.0	193.2	83.1	99.7	120.5
37.5°	2700.8	2694.5	2663.4	2611.4	2515.9	2459.8	1460.5	164.1	74.8	95.6	118.4
40°	2729.9	2707.0	2659.2	2607.3	2520.0	2466.0	1429.3	137.1	68.6	93.5	118.4
42.5°	2800.5	2721.6	2646.8	2599.0	2515.9	2453.6	1340.0	108.0	62.3	89.3	116.3
45°	2856.6	2717.4	2621.8	2584.4	2499.3	2428.6	1223.7	78.9	60.2	87.3	116.3
47.5°	2709.1	2623.9	2580.3	2559.5	2468.1	2391.2	1103.2	54.0	58.2	85.2	114.3
50°	2480.6	2470.2	2453.6	2455.6	2372.5	2310.2	928.7	37.4	54.0	83.1	112.2
52.5°	2370.5	2358.0	2328.9	2308.1	2225.0	2171.0	735.4	29.1	51.9	81.0	110.1
55°	2063.0	2071.3	2040.1	2052.6	2027.7	2000.7	465.4	27.0	49.9	76.9	108.0
57.5°	1358.7	1400.2	1473.0	1560.2	1639.2	1693.2	251.4	27.0	45.7	74.8	103.9
60°	1211.2	1200.8	1198.7	1215.4	1250.7	1279.8	87.3	24.9	43.6	68.6	99.7
62.5°	662.7	658.6	720.9	826.9	889.2	895.4	24.9	24.9	39.5	64.4	93.5
65°	157.9	164.1	182.8	228.5	270.1	297.1	18.7	22.9	35.3	60.2	87.3
67.5°	24.9	27.0	27.0	33.2	37.4	37.4	16.6	20.8	31.2	54.0	81.0
70°	14.5	14.5	14.5	14.5	14.5	14.5	14.5	18.7	27.0	47.8	72.7
72.5°	12.5	12.5	12.5	12.5	12.5	12.5	14.5	16.6	22.9	41.6	62.3
75°	10.4	10.4	10.4	10.4	10.4	10.4	10.4	14.5	18.7	33.2	54.0
77.5°	8.3	8.3	8.3	8.3	8.3	8.3	10.4	12.5	16.6	27.0	43.6
80°	6.2	6.2	6.2	6.2	6.2	6.2	8.3	10.4	12.5	20.8	33.2
82.5°	4.2	4.2	4.2	4.2	4.2	4.2	6.2	8.3	10.4	16.6	24.9
85°	2.1	2.1	2.1	2.1	4.2	4.2	4.2	6.2	6.2	10.4	16.6
87.5°	2.1	2.1	2.1	2.1	2.1	2.1	4.2	4.2	4.2	6.2	8.3
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):

	157.5°	180°
0°	201.5	201.5
2.5°	170.4	168.3
5°	153.7	153.7
7.5°	147.5	147.5
10°	145.4	147.5
12.5°	145.4	147.5
15°	145.4	147.5
17.5°	145.4	147.5
20°	143.3	145.4
22.5°	141.3	143.3
25°	139.2	143.3
27.5°	137.1	143.3
30°	137.1	143.3
32.5°	137.1	143.3
35°	135.0	143.3
37.5°	135.0	143.3
40°	135.0	143.3
42.5°	135.0	143.3
45°	135.0	143.3
47.5°	135.0	143.3
50°	135.0	143.3
52.5°	133.0	143.3
55°	133.0	141.3
57.5°	128.8	137.1
60°	124.7	133.0
62.5°	120.5	128.8
65°	114.3	122.6
67.5°	108.0	114.3
70°	97.6	106.0
72.5°	87.3	93.5
75°	74.8	81.0
77.5°	62.3	68.6
80°	49.9	54.0
82.5°	35.3	39.5
85°	22.9	24.9
87.5°	10.4	10.4
90°	0.0	0.0

(END OF REPORT)