

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: P1309651

Luminaire Tested: P3SQAS24R659035D010 E3SQCA451MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1309651
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: P3SQAS24R659035D010 E3SQCA451MW
Description: 3in Adjustable LED luminaire with, R65 optic, 3500K CCT AND, 90CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

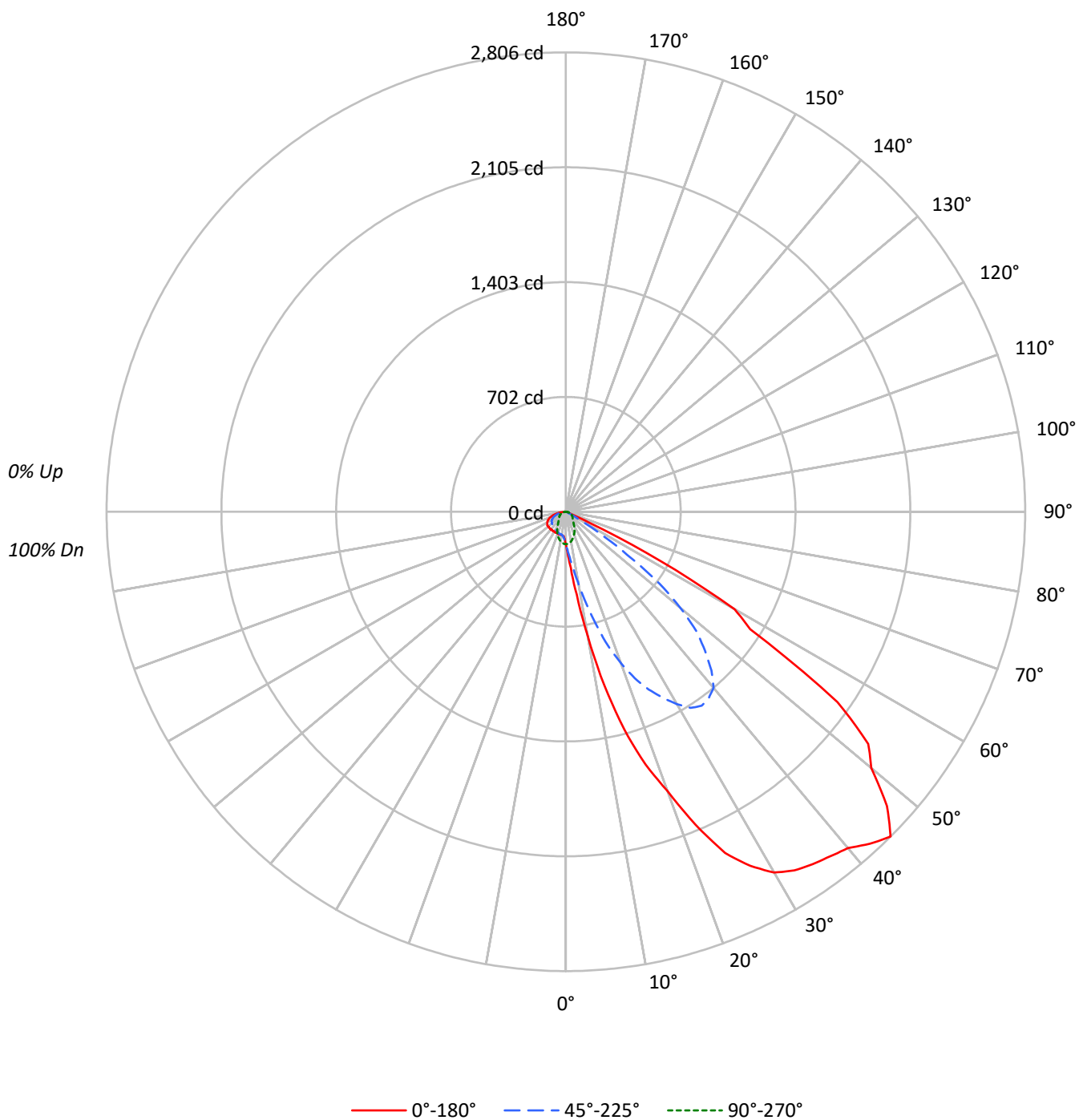
Lumens per Lamp: N/A
Luminaire Lumens: 2035.0 lumens
Efficiency: N/A
Efficacy: 70.7 lumens/watt
Spacing Criteria (0/90/45): 3.28 / 0.89 / 2.04
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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			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	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°	34083	34083	34083	34083	34083
5°	59609	48683	33504	27160	26105
10°	134885	78503	32108	24973	25340
15°	245195	126235	29829	25104	25835
20°	332443	180251	26923	25054	26172
25°	436985	227595	23658	24418	26756
30°	505994	269841	20284	24341	28000
35°	552545	304161	17156	24872	29602
40°	602767	315603	15130	26147	31655
45°	683331	292710	14419	27839	34293
50°	652760	244380	14227	29526	37725
55°	608359	137249	14713	31858	41646
60°	409752	29519	14742	33721	44985
65°	63205	7498	14141	34924	49065
70°	7201	7201	13344	35953	52419
75°	6787	6787	12244	35334	52967
80°	6050	8133	12100	32332	52664
85°	3952	8102	12054	32209	48413

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 683331 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	24.0	1.2
10°-20°	129.4	6.4
20°-30°	304.0	14.9
30°-40°	459.3	22.6
40°-50°	528.0	25.9
50°-60°	419.2	20.6
60°-70°	125.6	6.2
70°-80°	34.1	1.7
80°-90°	11.4	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°	457.4	22.5
0°-40°	916.7	45.0
0°-60°	1863.9	91.6
0°-90°	2035.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2035.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	198	198	198	198	198	
5°	345	282	194	157	151	46
15°	1375	708	167	141	145	396
25°	2300	1198	124	128	141	1050
35°	2628	1447	82	118	141	1649
45°	2806	1202	59	114	141	2084
55°	2026	457	49	106	139	1669
65°	155	18	35	86	120	348
75°	10	10	18	53	80	11
85°	2	4	6	16	24	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°	197.9	197.9	197.9	197.9	197.9	197.9	197.9	197.9	197.9	197.9	197.9
2.5°	251.0	253.0	251.0	251.0	248.9	246.9	232.6	216.3	197.9	183.6	173.4
5°	344.8	346.9	340.8	340.8	336.7	330.5	281.6	234.6	193.8	171.4	157.1
7.5°	510.1	518.3	508.1	495.8	473.4	469.3	351.0	253.0	189.8	159.2	146.9
10°	771.3	765.2	755.0	730.5	691.7	673.3	448.9	271.4	183.6	151.0	142.8
12.5°	1087.5	1071.2	1059.0	1014.1	961.0	930.4	571.3	287.7	175.5	142.8	140.8
15°	1375.2	1363.0	1334.4	1291.6	1226.3	1201.8	708.0	297.9	167.3	136.7	140.8
17.5°	1618.1	1605.8	1589.5	1546.6	1479.3	1442.6	861.1	304.0	157.1	132.6	138.7
20°	1813.9	1805.8	1783.3	1748.6	1681.3	1646.6	983.5	304.0	146.9	128.5	136.7
22.5°	2066.9	2048.6	2020.0	1969.0	1885.4	1832.3	1099.8	297.9	136.7	124.5	132.6
25°	2299.6	2287.3	2250.6	2189.4	2099.6	2046.5	1197.7	285.7	124.5	118.3	128.5
27.5°	2438.3	2430.1	2395.5	2332.2	2232.2	2191.4	1279.3	267.3	112.2	112.2	126.5
30°	2544.4	2528.1	2493.4	2432.2	2330.2	2281.2	1356.9	244.9	102.0	106.1	122.4
32.5°	2597.5	2591.3	2560.7	2507.7	2407.7	2352.6	1420.1	216.3	89.8	102.0	120.4
35°	2628.1	2621.9	2597.5	2546.4	2452.6	2399.5	1446.7	189.8	81.6	97.9	118.3
37.5°	2652.6	2646.4	2615.8	2564.8	2471.0	2415.9	1434.4	161.2	73.5	93.9	116.3
40°	2681.1	2658.7	2611.7	2560.7	2475.0	2422.0	1403.8	134.7	67.3	91.8	116.3
42.5°	2750.5	2673.0	2599.5	2552.6	2471.0	2409.7	1316.1	106.1	61.2	87.7	114.3
45°	2805.6	2668.9	2575.0	2538.3	2454.6	2385.3	1201.8	77.5	59.2	85.7	114.3
47.5°	2660.7	2577.1	2534.2	2513.8	2424.0	2348.5	1083.5	53.1	57.1	83.7	112.2
50°	2436.3	2426.1	2409.7	2411.8	2330.2	2269.0	912.1	36.7	53.1	81.6	110.2
52.5°	2328.1	2315.9	2287.3	2266.9	2185.3	2132.2	722.3	28.6	51.0	79.6	108.1
55°	2026.1	2034.3	2003.7	2015.9	1991.5	1964.9	457.1	26.5	49.0	75.5	106.1
57.5°	1334.4	1375.2	1446.7	1532.4	1609.9	1662.9	246.9	26.5	44.9	73.5	102.0
60°	1189.6	1179.4	1177.3	1193.6	1228.3	1256.9	85.7	24.5	42.8	67.3	97.9
62.5°	650.9	646.8	708.0	812.1	873.3	879.4	24.5	24.5	38.8	63.3	91.8
65°	155.1	161.2	179.6	224.4	265.3	291.8	18.4	22.4	34.7	59.2	85.7
67.5°	24.5	26.5	26.5	32.6	36.7	36.7	16.3	20.4	30.6	53.1	79.6
70°	14.3	14.3	14.3	14.3	14.3	14.3	14.3	18.4	26.5	46.9	71.4
72.5°	12.2	12.2	12.2	12.2	12.2	12.2	14.3	16.3	22.4	40.8	61.2
75°	10.2	10.2	10.2	10.2	10.2	10.2	10.2	14.3	18.4	32.6	53.1
77.5°	8.2	8.2	8.2	8.2	8.2	8.2	10.2	12.2	16.3	26.5	42.8
80°	6.1	6.1	6.1	6.1	6.1	6.1	8.2	10.2	12.2	20.4	32.6
82.5°	4.1	4.1	4.1	4.1	4.1	4.1	6.1	8.2	10.2	16.3	24.5
85°	2.0	2.0	2.0	2.0	4.1	4.1	4.1	6.1	6.1	10.2	16.3
87.5°	2.0	2.0	2.0	2.0	2.0	2.0	4.1	4.1	4.1	6.1	8.2
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°	197.9	197.9
2.5°	167.3	165.3
5°	151.0	151.0
7.5°	144.9	144.9
10°	142.8	144.9
12.5°	142.8	144.9
15°	142.8	144.9
17.5°	142.8	144.9
20°	140.8	142.8
22.5°	138.7	140.8
25°	136.7	140.8
27.5°	134.7	140.8
30°	134.7	140.8
32.5°	134.7	140.8
35°	132.6	140.8
37.5°	132.6	140.8
40°	132.6	140.8
42.5°	132.6	140.8
45°	132.6	140.8
47.5°	132.6	140.8
50°	132.6	140.8
52.5°	130.6	140.8
55°	130.6	138.7
57.5°	126.5	134.7
60°	122.4	130.6
62.5°	118.3	126.5
65°	112.2	120.4
67.5°	106.1	112.2
70°	95.9	104.1
72.5°	85.7	91.8
75°	73.5	79.6
77.5°	61.2	67.3
80°	49.0	53.1
82.5°	34.7	38.8
85°	22.4	24.5
87.5°	10.2	10.2
90°	0.0	0.0

(END OF REPORT)