

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: P1309644

Luminaire Tested: P3SQAS24R609035D010 E3SQCA451MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1309644
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-81)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS24R609035D010 E3SQCA451MW
Description: 3in Adjustable LED luminaire with, R60 optic, 3500K CCT AND, 90CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

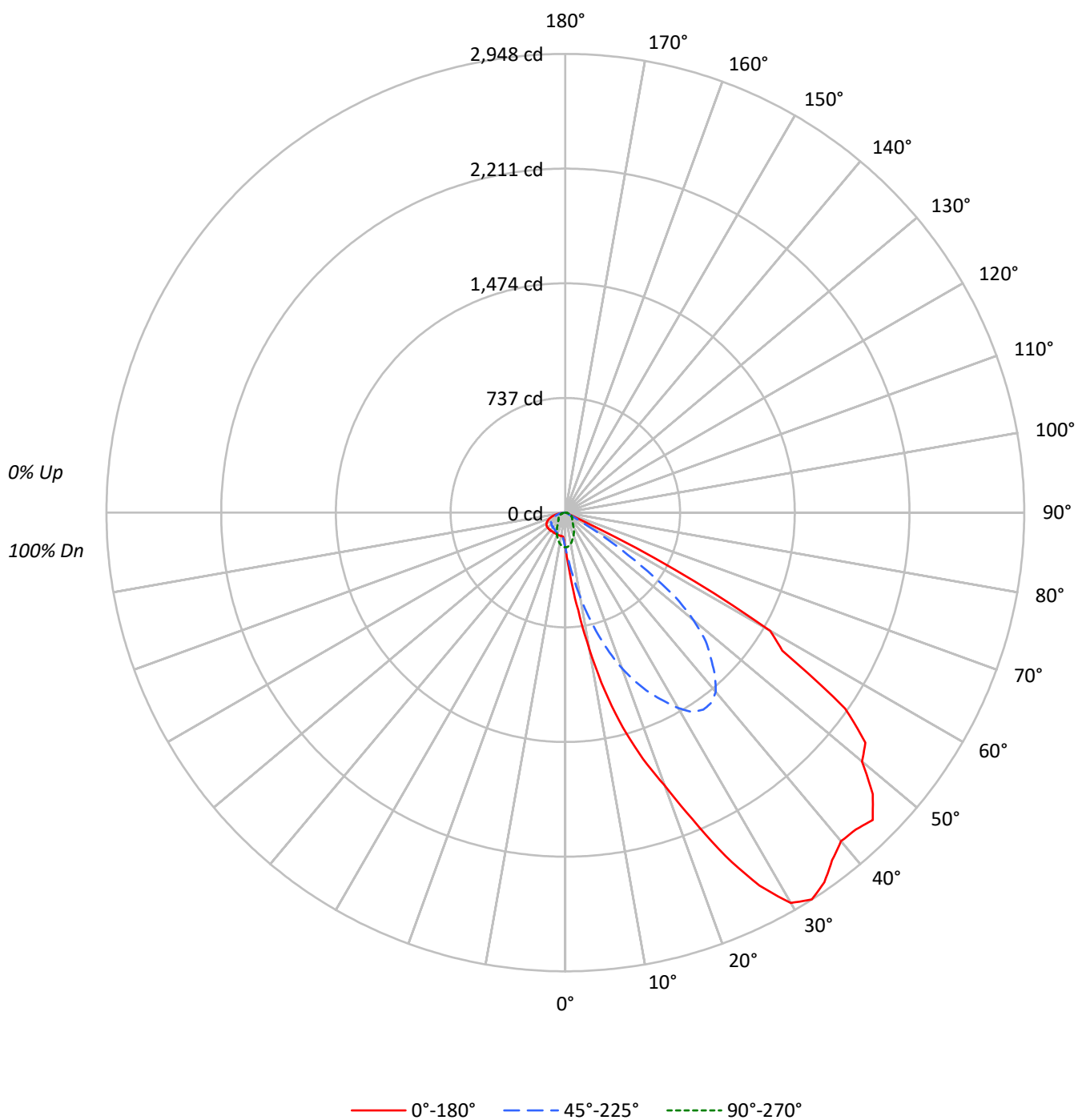
Lumens per Lamp: N/A
Luminaire Lumens: 2244.0 lumens
Efficiency: N/A
Efficacy: 77.9 lumens/watt
Spacing Criteria (0/90/45): 3.38 / 0.84 / 2.07
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	102	102	100
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	89	89	87
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76	76	76	74
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	64	64	62
4	84	72	64	58	82	71	63	57	69	62	56	66	60	56	64	59	55	55	55	53
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	47	47	45
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	41	41	39
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	35	35	33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	31	31	29
9	55	42	33	28	54	41	33	28	40	33	28	39	32	27	38	32	27	27	27	25
10	52	38	30	25	50	38	30	25	37	29	24	36	29	24	35	29	24	24	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	38285	38285	38285	38285	38285
5°	75462	58900	37740	28560	27160
10°	155888	95956	35308	26040	26389
15°	254948	144029	31648	26192	26905
20°	342065	195152	28408	26172	27290
25°	462829	242265	24798	25977	28295
30°	576034	288415	20682	25952	29611
35°	609837	325081	17576	26596	30885
40°	619561	337995	16052	27518	33476
45°	680140	321937	15393	29300	36266
50°	666773	288562	15299	31160	39895
55°	659043	177004	15313	33689	44108
60°	522730	42160	16154	35822	47775
65°	33253	7498	15812	36595	51550
70°	7201	8208	15408	38018	54433
75°	6787	8118	13575	36664	55629
80°	6050	8133	14183	36399	52565
85°	3952	8102	16203	32209	52365

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°

Vertical Angle: 52.5°

Luminance: 717876 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.8	1.2
10°-20°	139.9	6.2
20°-30°	324.5	14.5
30°-40°	504.4	22.5
40°-50°	574.8	25.6
50°-60°	484.1	21.6
60°-70°	140.5	6.3
70°-80°	36.0	1.6
80°-90°	12.2	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°	492.1	21.9
0°-40°	996.5	44.4
0°-60°	2055.4	91.6
0°-90°	2244.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2244.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	222	222	222	222	222	
5°	436	341	218	165	157	56
15°	1430	808	178	147	151	414
25°	2436	1275	130	137	149	1131
35°	2901	1546	84	126	147	1802
45°	2792	1322	63	120	149	2099
55°	2195	590	51	112	147	1847
65°	82	18	39	90	126	404
75°	10	12	20	55	84	11
85°	2	4	8	16	26	3
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°	222.3	222.3	222.3	222.3	222.3	222.3	222.3	222.3	222.3	222.3	222.3
2.5°	299.9	297.8	297.8	295.8	293.7	291.7	285.6	283.5	271.3	246.8	222.3
5°	436.5	434.5	428.4	426.3	416.1	401.8	387.6	373.3	340.7	271.3	218.3
7.5°	632.3	636.4	632.3	609.9	595.6	573.2	530.4	499.8	434.5	295.8	210.1
10°	891.4	891.4	885.3	850.6	820.0	777.2	722.1	669.1	548.7	318.2	201.9
12.5°	1172.9	1179.0	1148.4	1119.9	1064.8	1011.8	936.3	856.7	679.3	336.6	191.7
15°	1429.9	1425.8	1395.2	1358.5	1301.4	1228.0	1148.4	1046.4	807.8	348.8	177.5
17.5°	1658.4	1650.2	1623.7	1582.9	1513.6	1432.0	1330.0	1219.8	940.4	359.0	167.3
20°	1866.4	1837.9	1807.3	1764.4	1697.1	1611.5	1505.4	1381.0	1064.8	359.0	155.0
22.5°	2129.6	2101.0	2058.2	1992.9	1903.2	1797.1	1672.7	1531.9	1174.9	350.9	142.8
25°	2435.6	2413.1	2339.7	2256.0	2139.8	2013.3	1868.5	1678.8	1274.9	338.6	130.5
27.5°	2702.8	2678.3	2604.9	2482.5	2341.7	2190.8	2037.8	1844.0	1362.6	316.2	116.3
30°	2896.6	2866.0	2808.8	2692.6	2521.2	2337.6	2156.1	1970.5	1450.3	289.7	104.0
32.5°	2947.5	2943.5	2900.6	2815.0	2662.0	2460.0	2243.8	2041.9	1519.7	255.0	93.8
35°	2900.6	2906.8	2898.6	2855.8	2743.6	2545.7	2300.9	2080.6	1546.2	220.3	83.6
37.5°	2815.0	2823.1	2837.4	2843.5	2772.1	2596.7	2333.6	2096.9	1540.1	185.6	77.5
40°	2755.8	2751.7	2751.7	2792.5	2778.2	2619.1	2337.6	2084.7	1503.4	148.9	71.4
42.5°	2761.9	2717.0	2686.5	2751.7	2772.1	2608.9	2311.1	2052.1	1423.8	114.2	65.3
45°	2792.5	2696.6	2643.6	2727.2	2759.9	2574.3	2262.2	2003.1	1321.8	79.6	63.2
47.5°	2678.3	2615.1	2606.9	2725.2	2737.4	2515.1	2186.7	1925.6	1223.9	55.1	59.2
50°	2488.6	2478.4	2521.2	2643.6	2645.7	2417.2	2101.0	1784.8	1077.0	38.8	57.1
52.5°	2429.4	2435.6	2474.3	2537.5	2478.4	2252.0	1946.0	1666.5	891.4	30.6	55.1
55°	2194.9	2205.1	2241.8	2280.5	2237.7	2050.0	1758.3	1523.7	589.5	28.6	51.0
57.5°	1652.3	1678.8	1746.1	1780.8	1784.8	1670.6	1593.1	1313.6	332.5	28.6	49.0
60°	1517.6	1483.0	1452.4	1381.0	1315.7	1301.4	1309.6	985.2	122.4	26.5	46.9
62.5°	793.5	777.2	824.1	854.7	862.8	907.7	848.6	520.2	26.5	26.5	42.8
65°	81.6	81.6	100.0	132.6	220.3	293.7	279.5	150.9	18.4	24.5	38.8
67.5°	24.5	24.5	24.5	28.6	36.7	36.7	30.6	22.4	18.4	22.4	34.7
70°	14.3	14.3	14.3	14.3	14.3	14.3	16.3	14.3	16.3	20.4	30.6
72.5°	12.2	12.2	12.2	12.2	14.3	14.3	14.3	14.3	14.3	18.4	26.5
75°	10.2	10.2	10.2	10.2	10.2	10.2	10.2	12.2	12.2	14.3	20.4
77.5°	8.2	8.2	8.2	8.2	8.2	8.2	10.2	10.2	10.2	12.2	16.3
80°	6.1	6.1	6.1	6.1	6.1	8.2	8.2	8.2	8.2	10.2	14.3
82.5°	4.1	4.1	4.1	4.1	6.1	6.1	6.1	6.1	6.1	8.2	10.2
85°	2.0	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	6.1	8.2
87.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	4.1	4.1	6.1
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°	222.3	222.3	222.3	222.3
2.5°	201.9	187.7	179.5	175.4
5°	183.6	165.2	159.1	157.1
7.5°	167.3	155.0	153.0	153.0
10°	157.1	148.9	150.9	150.9
12.5°	150.9	148.9	150.9	153.0
15°	144.8	146.9	150.9	150.9
17.5°	140.7	144.8	148.9	150.9
20°	134.6	142.8	148.9	148.9
22.5°	130.5	140.7	146.9	148.9
25°	126.5	136.7	144.8	148.9
27.5°	120.3	134.6	144.8	146.9
30°	114.2	130.5	142.8	148.9
32.5°	108.1	128.5	142.8	146.9
35°	104.0	126.5	142.8	146.9
37.5°	100.0	124.4	142.8	148.9
40°	97.9	122.4	140.7	148.9
42.5°	93.8	122.4	140.7	148.9
45°	91.8	120.3	140.7	148.9
47.5°	89.8	118.3	140.7	148.9
50°	85.7	116.3	138.7	148.9
52.5°	83.6	114.2	138.7	148.9
55°	79.6	112.2	136.7	146.9
57.5°	77.5	108.1	134.6	142.8
60°	73.4	104.0	130.5	138.7
62.5°	67.3	97.9	124.4	134.6
65°	61.2	89.8	118.3	126.5
67.5°	55.1	83.6	110.2	118.3
70°	49.0	75.5	100.0	108.1
72.5°	42.8	65.3	89.8	95.9
75°	36.7	55.1	75.5	83.6
77.5°	28.6	44.9	63.2	69.4
80°	22.4	36.7	49.0	53.0
82.5°	18.4	26.5	36.7	38.8
85°	12.2	16.3	22.4	26.5
87.5°	6.1	8.2	10.2	12.2
90°	0.0	0.0	0.0	0.0

(END OF REPORT)