

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: P1311846

Luminaire Tested: P3SQAS24R659050D010 E3SQCA451MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1311846
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: P3SQAS24R659050D010 E3SQCA451MW
Description: 3in Adjustable LED luminaire with, R65 optic, 5000K CCT AND, 90CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

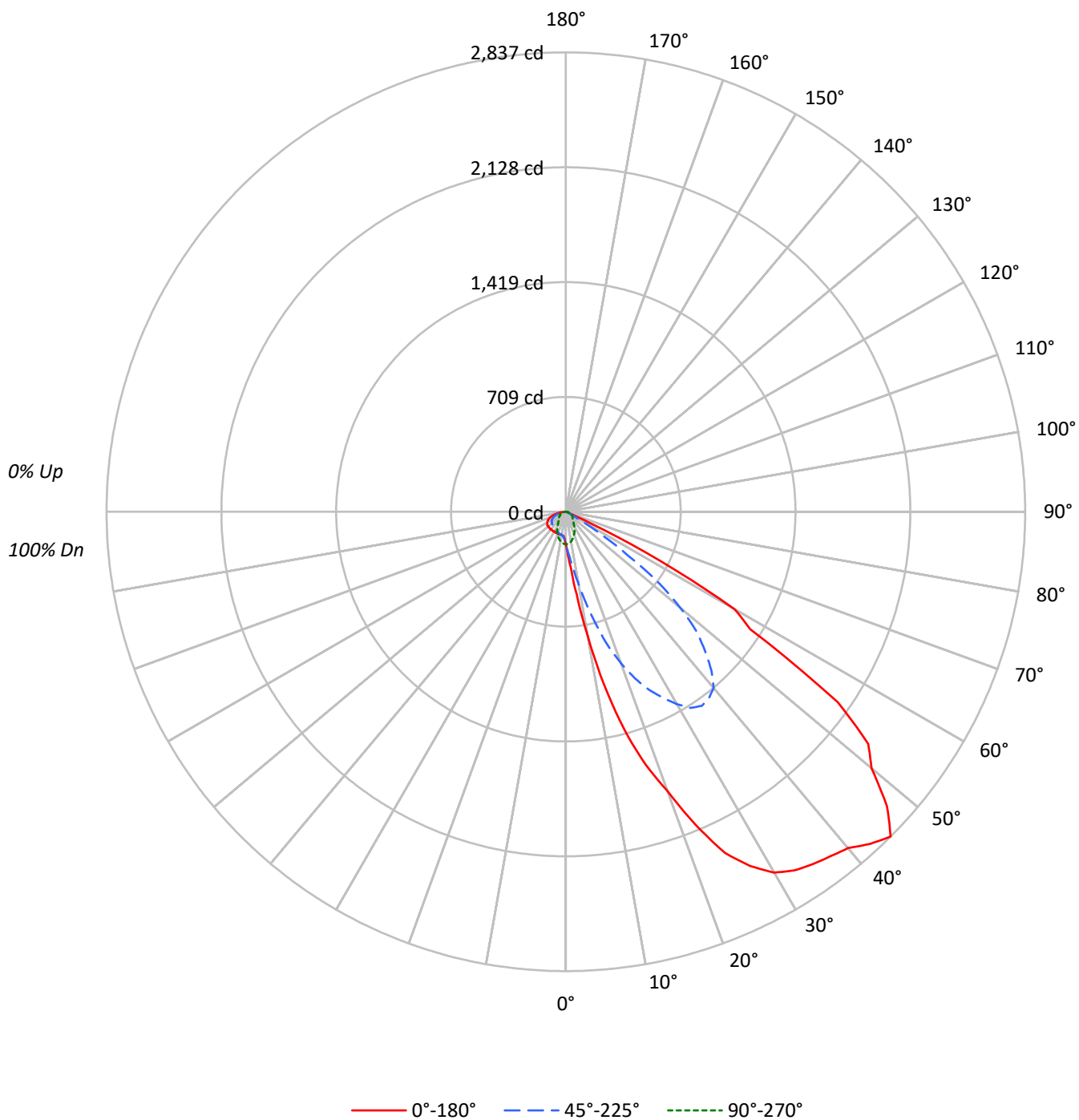
Lumens per Lamp: N/A
Luminaire Lumens: 2058.0 lumens
Efficiency: N/A
Efficacy: 71.5 lumens/watt
Spacing Criteria (0/90/45): 3.28 / 0.89 / 2.04
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1311846

CATALOG NUMBER: P3SQAS24R659050D010 E3SQCA451MW

Luminous Intensity Polar Plot



TEST NUMBER: P1311846

CATALOG NUMBER: P3SQAS24R659050D010 E3SQCA451MW

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	99	108	104	100	97	100	97	94	96	94	91	92	90	89
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47
6	71	57	49	42	69	57	48	42	55	47	42	53	46	41	51	46	41
7	65	52	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31
9	56	42	34	28	54	41	33	28	40	33	28	39	33	28	38	32	28
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	34479	34479	34479	34479	34479
5°	60283	49236	33885	27471	26399
10°	136406	79395	32475	25253	25620
15°	247977	127661	30168	25390	26121
20°	336201	182286	27235	25347	26465
25°	441907	230179	23924	24703	27060
30°	511721	272883	20523	24620	28318
35°	558789	307588	17345	25166	29939
40°	609579	319178	15310	26439	32014
45°	691052	296022	14565	28155	34683
50°	660128	247139	14388	29847	38153
55°	615235	138781	14863	32218	42127
60°	414368	29863	14914	34100	45501
65°	63898	7580	14304	35331	49594
70°	7251	7251	13495	36356	52973
75°	6854	6854	12377	35733	53566
80°	6149	8232	12298	32729	53259
85°	4150	8102	12251	32605	49006

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 691052 cd/sqm

TEST NUMBER: P1311846

CATALOG NUMBER: P3SQAS24R659050D010 E3SQCA451MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	24.2	1.2
10°-20°	130.9	6.4
20°-30°	307.5	14.9
30°-40°	464.5	22.6
40°-50°	533.9	25.9
50°-60°	423.9	20.6
60°-70°	127.0	6.2
70°-80°	34.5	1.7
80°-90°	11.6	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°	462.6	22.5
0°-40°	927.1	45.0
0°-60°	1884.9	91.6
0°-90°	2058.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2058.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	200	200	200	200	200	
5°	349	285	196	159	153	47
15°	1391	716	169	142	146	400
25°	2326	1211	126	130	142	1061
35°	2658	1463	82	120	142	1668
45°	2837	1215	60	116	142	2108
55°	2049	462	50	107	140	1688
65°	157	19	35	87	122	352
75°	10	10	19	54	80	11
85°	2	4	6	16	25	3
90°	0	0	0	0	0	

TEST NUMBER: P1311846

CATALOG NUMBER: P3SQAS24R659050D010 E3SQCA451MW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	200.2	200.2	200.2	200.2	200.2	200.2	200.2	200.2	200.2	200.2	200.2
2.5°	253.8	255.9	253.8	253.8	251.7	249.7	235.2	218.7	200.2	185.7	175.4
5°	348.7	350.8	344.6	344.6	340.5	334.3	284.8	237.3	196.0	173.3	158.9
7.5°	515.9	524.1	513.8	501.4	478.7	474.6	354.9	255.9	191.9	161.0	148.6
10°	780.0	773.8	763.5	738.7	699.5	680.9	454.0	274.4	185.7	152.7	144.4
12.5°	1099.8	1083.3	1070.9	1025.6	971.9	940.9	577.8	291.0	177.5	144.4	142.4
15°	1390.8	1378.4	1349.5	1306.2	1240.2	1215.4	716.0	301.3	169.2	138.3	142.4
17.5°	1636.3	1624.0	1607.5	1564.1	1496.0	1458.9	870.8	307.5	158.9	134.1	140.3
20°	1834.4	1826.2	1803.5	1768.4	1700.3	1665.2	994.6	307.5	148.6	130.0	138.3
22.5°	2090.3	2071.7	2042.8	1991.3	1906.7	1853.0	1112.2	301.3	138.3	125.9	134.1
25°	2325.5	2313.2	2276.0	2214.1	2123.3	2069.7	1211.3	288.9	125.9	119.7	130.0
27.5°	2465.9	2457.6	2422.5	2358.6	2257.5	2216.2	1293.8	270.3	113.5	113.5	127.9
30°	2573.2	2556.7	2521.6	2459.7	2356.5	2307.0	1372.2	247.6	103.2	107.3	123.8
32.5°	2626.8	2620.6	2589.7	2536.0	2434.9	2379.2	1436.2	218.7	90.8	103.2	121.7
35°	2657.8	2651.6	2626.8	2575.2	2480.3	2426.7	1463.0	191.9	82.5	99.0	119.7
37.5°	2682.5	2676.3	2645.4	2593.8	2498.9	2443.2	1450.6	163.0	74.3	94.9	117.6
40°	2711.4	2688.7	2641.3	2589.7	2503.0	2449.4	1419.7	136.2	68.1	92.9	117.6
42.5°	2781.6	2703.2	2628.9	2581.4	2498.9	2437.0	1330.9	107.3	61.9	88.7	115.6
45°	2837.3	2699.0	2604.1	2567.0	2482.4	2412.2	1215.4	78.4	59.8	86.7	115.6
47.5°	2690.8	2606.2	2562.8	2542.2	2451.4	2375.1	1095.7	53.7	57.8	84.6	113.5
50°	2463.8	2453.5	2437.0	2439.0	2356.5	2294.6	922.4	37.1	53.7	82.5	111.4
52.5°	2354.4	2342.1	2313.2	2292.5	2210.0	2156.3	730.5	28.9	51.6	80.5	109.4
55°	2049.0	2057.3	2026.3	2038.7	2014.0	1987.1	462.2	26.8	49.5	76.3	107.3
57.5°	1349.5	1390.8	1463.0	1549.7	1628.1	1681.7	249.7	26.8	45.4	74.3	103.2
60°	1203.0	1192.7	1190.6	1207.1	1242.2	1271.1	86.7	24.8	43.3	68.1	99.0
62.5°	658.3	654.1	716.0	821.3	883.2	889.4	24.8	24.8	39.2	64.0	92.9
65°	156.8	163.0	181.6	227.0	268.3	295.1	18.6	22.7	35.1	59.8	86.7
67.5°	24.8	26.8	26.8	33.0	37.1	37.1	16.5	20.6	31.0	53.7	80.5
70°	14.4	14.4	14.4	14.4	14.4	14.4	14.4	18.6	26.8	47.5	72.2
72.5°	12.4	12.4	12.4	12.4	12.4	12.4	14.4	16.5	22.7	41.3	61.9
75°	10.3	10.3	10.3	10.3	10.3	10.3	10.3	14.4	18.6	33.0	53.7
77.5°	8.3	8.3	8.3	8.3	8.3	8.3	10.3	12.4	16.5	26.8	43.3
80°	6.2	6.2	6.2	6.2	6.2	6.2	8.3	10.3	12.4	20.6	33.0
82.5°	4.1	4.1	4.1	4.1	4.1	4.1	6.2	8.3	10.3	16.5	24.8
85°	2.1	2.1	2.1	2.1	4.1	4.1	4.1	6.2	6.2	10.3	16.5
87.5°	2.1	2.1	2.1	2.1	2.1	2.1	4.1	4.1	4.1	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

TEST NUMBER: P1311846

CATALOG NUMBER: P3SQAS24R659050D010 E3SQCA451MW

CANDELA DISTRIBUTION (continued):

	157.5°	180°
0°	200.2	200.2
2.5°	169.2	167.1
5°	152.7	152.7
7.5°	146.5	146.5
10°	144.4	146.5
12.5°	144.4	146.5
15°	144.4	146.5
17.5°	144.4	146.5
20°	142.4	144.4
22.5°	140.3	142.4
25°	138.3	142.4
27.5°	136.2	142.4
30°	136.2	142.4
32.5°	136.2	142.4
35°	134.1	142.4
37.5°	134.1	142.4
40°	134.1	142.4
42.5°	134.1	142.4
45°	134.1	142.4
47.5°	134.1	142.4
50°	134.1	142.4
52.5°	132.1	142.4
55°	132.1	140.3
57.5°	127.9	136.2
60°	123.8	132.1
62.5°	119.7	127.9
65°	113.5	121.7
67.5°	107.3	113.5
70°	97.0	105.2
72.5°	86.7	92.9
75°	74.3	80.5
77.5°	61.9	68.1
80°	49.5	53.7
82.5°	35.1	39.2
85°	22.7	24.8
87.5°	10.3	10.3
90°	0.0	0.0

(END OF REPORT)