

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: P1311809

Luminaire Tested: P3SQAS24R459050D010 E3SQCA301MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1311809
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-69)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS24R459050D010 E3SQCA301MW
Description: 3in Adjustable LED luminaire with, R45 optic, 5000K CCT AND, 90CRI , E3SQCA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

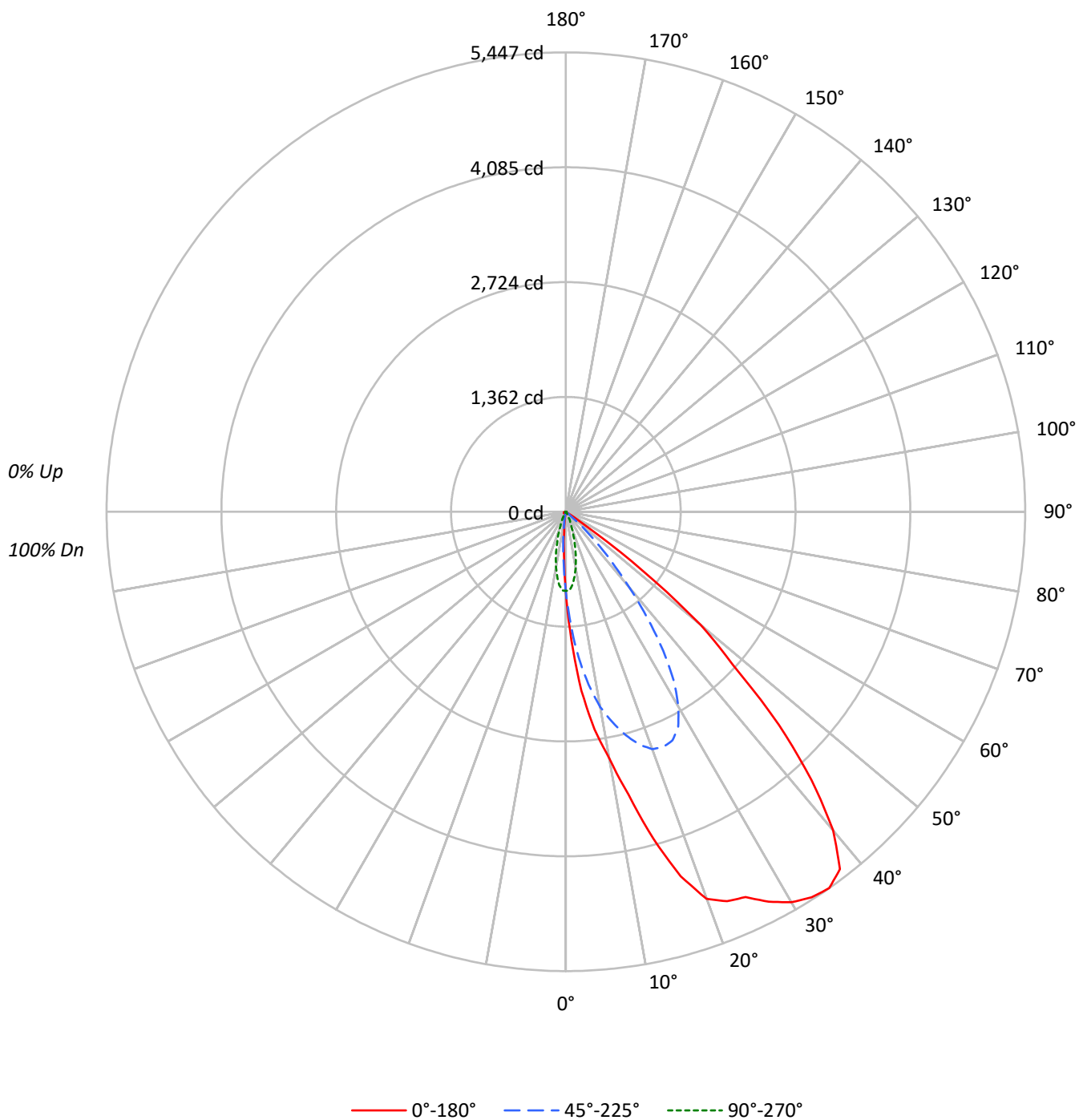
Lumens per Lamp: N/A
Luminaire Lumens: 2468.0 lumens
Efficiency: N/A
Efficacy: 85.7 lumens/watt
Spacing Criteria (0/90/45): 2.13 / 0.47 / 1.22
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91		
2	105	100	95	91	103	98	93	90	95	91	88	91	88	86	89	86	84	82		
3	99	91	85	80	96	89	84	80	87	82	78	84	80	77	82	79	76	74		
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	67		
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	60		
6	81	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54		
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	49		
8	71	59	52	47	69	59	52	47	57	51	47	56	51	47	55	50	46	45		
9	66	55	48	43	65	54	47	43	53	47	43	52	47	43	51	46	42	41		
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	161734	161734	161734	161734	161734
5°	368599	299014	151288	60664	41388
10°	519409	410757	116942	13361	6138
15°	715777	488715	74707	4422	3673
20°	895008	548892	38964	3024	3024
25°	957791	568313	18034	2356	2736
30°	1063096	530732	8213	2466	2864
35°	1145184	423097	2607	2607	3469
40°	1108096	262186	1394	3237	4182
45°	870190	123655	1510	4019	5017
50°	559091	14388	2224	4984	6645
55°	84914	1231	2492	6185	8047
60°	1412	1412	2859	7096	8542
65°	1671	1671	3382	7580	10106
70°	2065	2065	4179	8308	11430
75°	1397	2728	5523	9582	12377
80°	2083	4066	6149	10215	14282
85°	0	4150	8102	12251	12251

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 870190 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.8	4.2
10°-20°	371.6	15.1
20°-30°	652.8	26.5
30°-40°	741.3	30.0
40°-50°	480.0	19.4
50°-60°	94.2	3.8
60°-70°	11.4	0.5
70°-80°	9.5	0.4
80°-90°	4.3	0.2
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°	1127.2	45.7
0°-40°	1868.5	75.7
0°-60°	2442.7	99.0
0°-90°	2468.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2468.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	939	939	939	939	939	
5°	2132	1730	875	351	239	227
15°	4014	2741	419	25	21	1157
25°	5040	2991	95	12	14	2363
35°	5447	2012	12	12	16	3349
45°	3573	508	6	16	21	2693
55°	283	4	8	21	27	540
65°	4	4	8	19	25	4
75°	2	4	8	14	19	2
85°	0	2	4	6	6	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	939.1	939.1	939.1	939.1	939.1	939.1	939.1	939.1	939.1	939.1	939.1
2.5°	1525.3	1521.2	1527.4	1486.1	1484.0	1453.1	1444.8	1409.7	1362.2	1339.5	1285.9
5°	2132.1	2111.5	2111.5	2061.9	2045.4	2010.3	1950.5	1876.2	1814.3	1729.6	1638.8
7.5°	2600.6	2596.5	2596.5	2553.2	2511.9	2462.4	2381.9	2297.2	2198.2	2068.1	1936.0
10°	2970.1	2976.3	2957.7	2918.5	2858.7	2805.0	2710.0	2606.8	2485.1	2348.8	2173.4
12.5°	3436.6	3391.2	3376.7	3288.0	3211.6	3108.4	2994.9	2877.2	2726.6	2555.2	2357.1
15°	4014.5	3956.7	3898.9	3781.3	3653.3	3494.4	3316.9	3143.5	2949.5	2741.0	2493.3
17.5°	4530.5	4530.5	4454.1	4268.4	4103.2	3867.9	3628.5	3397.4	3168.3	2893.7	2584.1
20°	4883.4	4864.9	4807.1	4670.8	4483.0	4216.8	3905.1	3581.1	3304.5	2994.9	2635.7
22.5°	4999.0	4994.9	4997.0	4916.5	4765.8	4489.2	4107.4	3725.5	3378.8	3019.6	2611.0
25°	5040.3	5048.6	5069.2	5038.2	4924.7	4648.1	4231.2	3793.6	3401.5	2990.7	2516.0
27.5°	5211.6	5195.1	5217.8	5197.2	5069.2	4739.0	4256.0	3777.1	3351.9	2885.5	2346.8
30°	5345.8	5341.7	5380.9	5362.3	5195.1	4796.8	4233.3	3715.2	3230.2	2668.8	2080.5
32.5°	5422.1	5424.2	5434.5	5358.2	5110.5	4670.8	4121.8	3589.3	3001.1	2386.0	1733.8
35°	5446.9	5434.5	5376.7	5188.9	4850.4	4379.8	3847.3	3290.0	2689.4	2012.4	1370.5
37.5°	5339.6	5275.6	5127.0	4846.3	4454.1	4014.5	3496.4	2912.3	2262.2	1589.3	1021.7
40°	4928.8	4844.2	4656.4	4369.5	4004.2	3579.0	3048.5	2437.6	1754.4	1166.2	718.3
42.5°	4313.8	4270.4	4074.4	3824.6	3515.0	3085.7	2538.7	1919.5	1298.3	805.0	458.2
45°	3572.8	3517.1	3393.2	3172.4	2928.8	2478.9	1969.1	1374.6	885.5	507.7	227.0
47.5°	2679.1	2683.2	2598.6	2431.4	2192.0	1816.3	1347.8	922.6	555.2	262.1	51.6
50°	2086.7	2057.8	1938.1	1766.8	1488.1	1209.5	871.0	582.1	293.1	53.7	4.1
52.5°	1155.8	1174.4	1110.4	1054.7	910.2	722.4	513.9	295.2	61.9	6.2	4.1
55°	282.8	299.3	286.9	293.1	303.4	270.4	208.5	57.8	6.2	4.1	4.1
57.5°	6.2	6.2	6.2	6.2	10.3	14.4	14.4	4.1	4.1	4.1	4.1
60°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
62.5°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
65°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
67.5°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
70°	4.1	4.1	4.1	2.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
72.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	4.1	4.1	4.1
75°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	4.1	4.1	4.1
77.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	4.1	4.1
80°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	4.1	4.1
82.5°	0.0	0.0	0.0	0.0	2.1	2.1	2.1	2.1	2.1	2.1	4.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	2.1	2.1	2.1	2.1	2.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	2.1	2.1	2.1
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):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	939.1	939.1	939.1	939.1	939.1	939.1	939.1	939.1
2.5°	1259.0	1219.8	1147.6	932.9	749.2	604.8	518.1	509.8
5°	1558.3	1453.1	1300.3	875.1	553.2	350.9	253.9	239.4
7.5°	1795.7	1647.1	1411.8	780.2	377.7	179.6	99.1	82.6
10°	1991.8	1781.2	1469.6	668.7	237.4	76.4	41.3	35.1
12.5°	2125.9	1872.1	1479.9	544.9	136.2	37.2	26.8	24.8
15°	2212.6	1901.0	1430.4	419.0	76.4	24.8	22.7	20.6
17.5°	2247.7	1876.2	1335.4	303.4	41.3	18.6	18.6	18.6
20°	2231.2	1795.7	1195.1	212.6	26.8	16.5	16.5	16.5
22.5°	2152.8	1657.4	1019.6	142.4	18.6	14.4	14.4	14.4
25°	1998.0	1469.6	833.9	94.9	12.4	12.4	14.4	14.4
27.5°	1766.8	1238.4	637.8	64.0	10.3	12.4	14.4	14.4
30°	1475.8	980.4	458.2	41.3	10.3	12.4	12.4	14.4
32.5°	1172.4	714.1	301.3	24.8	8.3	12.4	14.4	16.5
35°	850.4	487.1	192.0	12.4	10.3	12.4	14.4	16.5
37.5°	596.5	317.9	111.5	8.3	10.3	12.4	16.5	16.5
40°	388.0	177.5	41.3	6.2	10.3	14.4	16.5	18.6
42.5°	202.3	61.9	8.3	6.2	10.3	14.4	18.6	20.6
45°	51.6	8.3	2.1	6.2	12.4	16.5	20.6	20.6
47.5°	6.2	2.1	2.1	8.3	12.4	18.6	20.6	22.7
50°	2.1	4.1	4.1	8.3	12.4	18.6	22.7	24.8
52.5°	4.1	4.1	4.1	8.3	14.4	18.6	24.8	26.8
55°	4.1	4.1	4.1	8.3	14.4	20.6	24.8	26.8
57.5°	4.1	4.1	4.1	8.3	14.4	20.6	24.8	24.8
60°	4.1	4.1	4.1	8.3	14.4	20.6	24.8	24.8
62.5°	4.1	4.1	6.2	8.3	14.4	18.6	24.8	24.8
65°	4.1	6.2	6.2	8.3	14.4	18.6	22.7	24.8
67.5°	4.1	4.1	6.2	8.3	14.4	18.6	22.7	24.8
70°	4.1	4.1	6.2	8.3	12.4	16.5	20.6	22.7
72.5°	4.1	4.1	6.2	8.3	12.4	16.5	18.6	20.6
75°	4.1	4.1	6.2	8.3	10.3	14.4	18.6	18.6
77.5°	4.1	4.1	6.2	6.2	10.3	12.4	16.5	16.5
80°	4.1	4.1	6.2	6.2	8.3	10.3	12.4	14.4
82.5°	4.1	4.1	4.1	6.2	6.2	8.3	10.3	10.3
85°	4.1	4.1	4.1	4.1	4.1	6.2	6.2	6.2
87.5°	2.1	4.1	4.1	4.1	4.1	4.1	4.1	2.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)