

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: P1311830

Luminaire Tested: P3SQAS24R559050D010 E3SQCA451MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1311830
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-80)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS24R559050D010 E3SQCA451MW
Description: 3in Adjustable LED luminaire with, R55 optic, 5000K CCT AND, 90CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

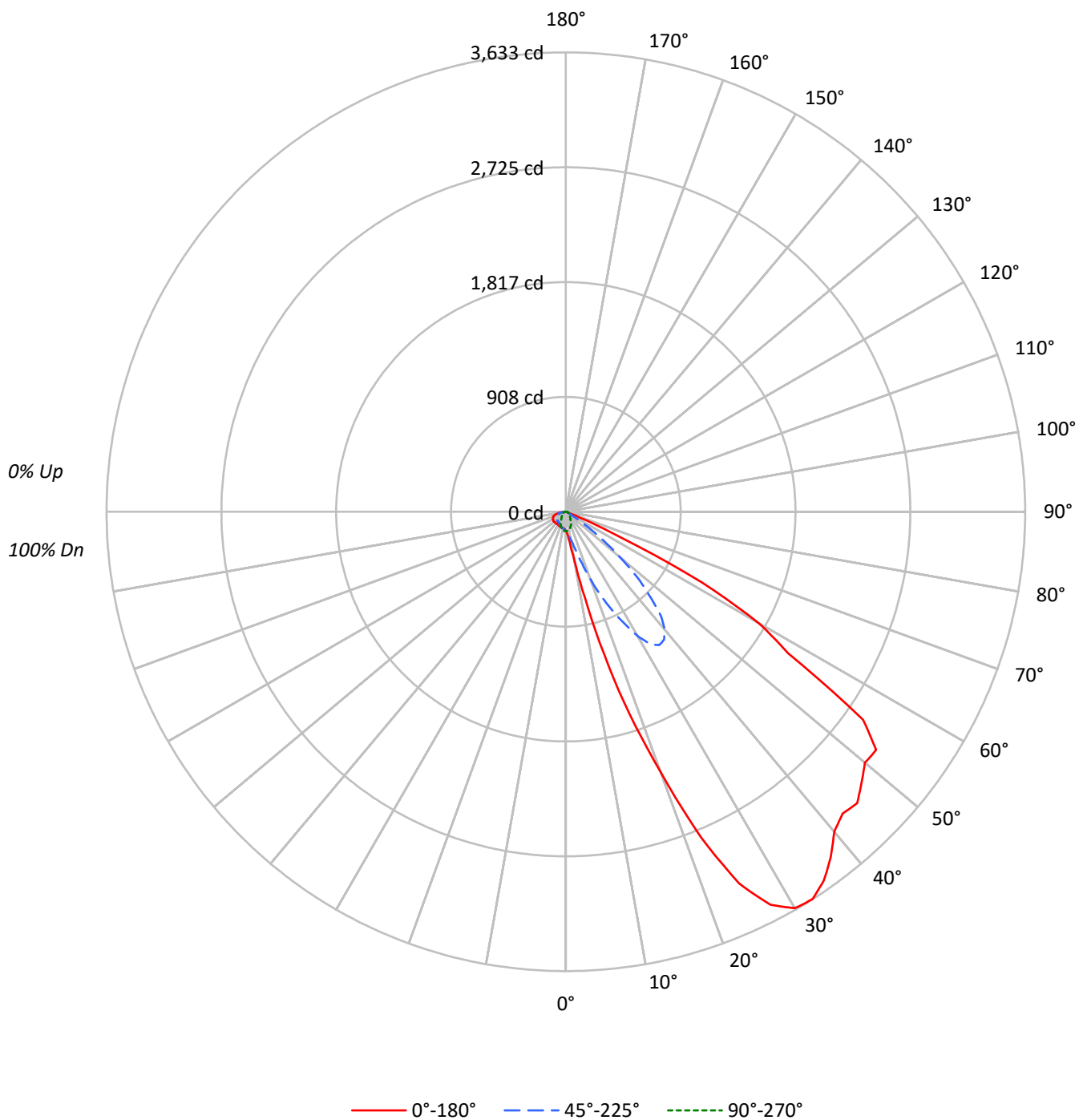
Lumens per Lamp: N/A
Luminaire Lumens: 2336.0 lumens
Efficiency: N/A
Efficacy: 81.1 lumens/watt
Spacing Criteria (0/90/45): 3.76 / 0.91 / 1.95
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	107	104	100	97	99	97	94	95	93	91	92	90	88	86		
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73		
3	91	81	73	67	89	80	72	67	77	71	65	74	69	64	72	67	63	61		
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51		
5	76	63	54	47	74	62	53	47	60	52	47	58	51	46	56	50	46	43		
6	69	56	47	40	68	55	46	40	53	46	40	51	45	39	50	44	39	37		
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	38	34	32		
8	59	45	36	30	57	44	36	30	43	35	30	41	35	29	40	34	29	27		
9	54	40	32	26	53	40	32	26	39	31	26	38	31	26	36	30	26	24		
10	50	37	28	23	49	36	28	23	35	28	23	34	27	23	33	27	23	21		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	25954	25954	25954	25954	25954
5°	33193	30323	26053	24272	23546
10°	67503	38613	25270	23102	23102
15°	207182	59248	23553	22448	23179
20°	400604	103642	21187	21938	23074
25°	616560	161200	18433	21188	23145
30°	719933	225335	15193	20941	23804
35°	748115	270775	12594	20835	24725
40°	742448	273315	11601	21808	26911
45°	793761	226218	11058	23625	29154
50°	827290	149318	11066	25427	32634
55°	861449	65067	11170	27894	35941
60°	608566	14914	11367	30587	40507
65°	198500	5053	10921	32805	45438
70°	6244	5187	11430	35349	51966
75°	5523	5523	9582	37064	57692
80°	4066	6149	10215	36895	61392
85°	4150	8102	12251	36754	61257

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 875285 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16.0	0.7
10°-20°	99.2	4.2
20°-30°	332.5	14.2
30°-40°	546.0	23.4
40°-50°	609.0	26.1
50°-60°	512.6	21.9
60°-70°	173.9	7.4
70°-80°	34.0	1.5
80°-90°	12.8	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°	447.6	19.2
0°-40°	993.7	42.5
0°-60°	2115.3	90.6
0°-90°	2336.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2336.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	151	151	151	151	151	
5°	192	175	151	140	136	24
15°	1162	332	132	126	130	369
25°	3245	848	97	112	122	1458
35°	3558	1288	60	99	118	2209
45°	3259	929	45	97	120	2489
55°	2869	217	37	93	120	2336
65°	487	12	27	80	112	660
75°	8	8	14	56	87	9
85°	2	4	6	19	31	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°	150.7	150.7	150.7	150.7	150.7	150.7	150.7	150.7	150.7	150.7	150.7
2.5°	165.1	165.1	165.1	165.1	165.1	165.1	163.1	156.9	152.7	146.5	144.5
5°	192.0	192.0	192.0	189.9	189.9	185.8	175.4	161.0	150.7	142.4	140.4
7.5°	247.7	245.6	241.5	239.4	233.2	231.2	194.0	165.1	148.6	138.3	136.2
10°	386.0	381.8	375.6	352.9	332.3	317.9	220.8	167.2	144.5	134.2	132.1
12.5°	695.6	687.3	656.4	608.9	551.1	522.2	264.2	169.2	138.3	130.0	130.0
15°	1162.0	1151.7	1093.9	1027.9	922.6	864.8	332.3	167.2	132.1	123.8	125.9
17.5°	1678.0	1649.1	1589.3	1502.6	1360.2	1292.1	433.4	163.1	123.8	119.7	123.8
20°	2185.8	2177.5	2078.4	1960.8	1785.4	1694.5	565.5	156.9	115.6	113.5	119.7
22.5°	2780.2	2745.1	2639.9	2513.9	2272.5	2152.7	708.0	148.6	107.3	107.3	115.6
25°	3244.6	3203.3	3120.8	2974.2	2745.1	2617.1	848.3	138.3	97.0	101.1	111.5
27.5°	3504.7	3457.2	3395.3	3269.4	3091.9	2978.3	988.7	125.9	86.7	94.9	107.3
30°	3620.2	3607.9	3562.5	3469.6	3306.5	3205.4	1133.1	111.5	76.4	88.8	105.3
32.5°	3632.6	3638.8	3620.2	3560.4	3436.6	3349.9	1240.5	99.1	68.1	84.6	101.1
35°	3558.3	3581.0	3593.4	3568.6	3488.2	3418.0	1287.9	84.6	59.9	80.5	99.1
37.5°	3442.7	3484.0	3525.3	3531.5	3482.0	3436.6	1275.5	72.2	55.7	78.4	99.1
40°	3302.4	3339.5	3424.2	3477.8	3461.3	3428.3	1215.7	59.9	51.6	74.3	97.0
42.5°	3238.4	3246.7	3337.5	3428.3	3424.2	3397.3	1110.4	47.5	47.5	74.3	97.0
45°	3259.0	3221.9	3281.8	3387.0	3380.8	3345.7	928.8	37.2	45.4	72.2	97.0
47.5°	3172.4	3120.8	3221.9	3345.7	3323.0	3271.4	767.8	26.8	43.3	70.2	94.9
50°	3087.7	3079.5	3157.9	3219.8	3188.9	3160.0	557.3	20.6	41.3	68.1	94.9
52.5°	3093.9	3079.5	3087.7	3085.7	3023.8	2992.8	381.8	16.5	39.2	66.0	94.9
55°	2869.0	2823.5	2780.2	2792.6	2796.7	2776.1	216.7	14.4	37.2	66.0	92.9
57.5°	2084.6	2072.3	2119.7	2253.9	2359.1	2371.5	105.3	14.4	35.1	64.0	90.8
60°	1766.8	1758.5	1760.6	1799.8	1855.5	1820.4	43.3	14.4	33.0	61.9	88.8
62.5°	1217.8	1298.3	1331.3	1422.1	1384.9	1335.4	16.5	16.5	31.0	57.8	86.7
65°	487.1	485.0	530.4	573.8	561.4	524.3	12.4	14.4	26.8	53.7	80.5
67.5°	113.5	103.2	88.8	76.4	64.0	51.6	12.4	14.4	24.8	49.5	76.4
70°	12.4	12.4	12.4	12.4	12.4	10.3	10.3	14.4	22.7	45.4	70.2
72.5°	10.3	10.3	10.3	10.3	10.3	10.3	10.3	12.4	18.6	39.2	64.0
75°	8.3	8.3	8.3	8.3	8.3	8.3	8.3	10.3	14.4	33.0	55.7
77.5°	6.2	6.2	6.2	8.3	6.2	8.3	8.3	10.3	12.4	26.8	47.5
80°	4.1	4.1	6.2	6.2	6.2	6.2	6.2	8.3	10.3	22.7	37.2
82.5°	4.1	4.1	4.1	4.1	4.1	4.1	6.2	6.2	8.3	16.5	26.8
85°	2.1	2.1	2.1	2.1	2.1	4.1	4.1	6.2	6.2	12.4	18.6
87.5°	2.1	2.1	2.1	2.1	2.1	2.1	4.1	4.1	6.2	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°	150.7	150.7
2.5°	142.4	142.4
5°	138.3	136.2
7.5°	134.2	134.2
10°	132.1	132.1
12.5°	130.0	132.1
15°	130.0	130.0
17.5°	125.9	128.0
20°	123.8	125.9
22.5°	121.8	123.8
25°	119.7	121.8
27.5°	117.6	119.7
30°	115.6	119.7
32.5°	113.5	117.6
35°	113.5	117.6
37.5°	113.5	119.7
40°	113.5	119.7
42.5°	113.5	119.7
45°	113.5	119.7
47.5°	113.5	119.7
50°	113.5	121.8
52.5°	113.5	121.8
55°	113.5	119.7
57.5°	111.5	119.7
60°	111.5	117.6
62.5°	109.4	115.6
65°	105.3	111.5
67.5°	101.1	109.4
70°	94.9	103.2
72.5°	88.8	94.9
75°	80.5	86.7
77.5°	70.2	74.3
80°	55.7	61.9
82.5°	43.3	47.5
85°	28.9	31.0
87.5°	12.4	14.4
90°	0.0	0.0

(END OF REPORT)