

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: P1309635

Luminaire Tested: P3SQAS24R559035D010 E3SQCA451MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1309635
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: P3SQAS24R559035D010 E3SQCA451MW
Description: 3in Adjustable LED luminaire with, R55 optic, 3500K CCT AND, 90CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

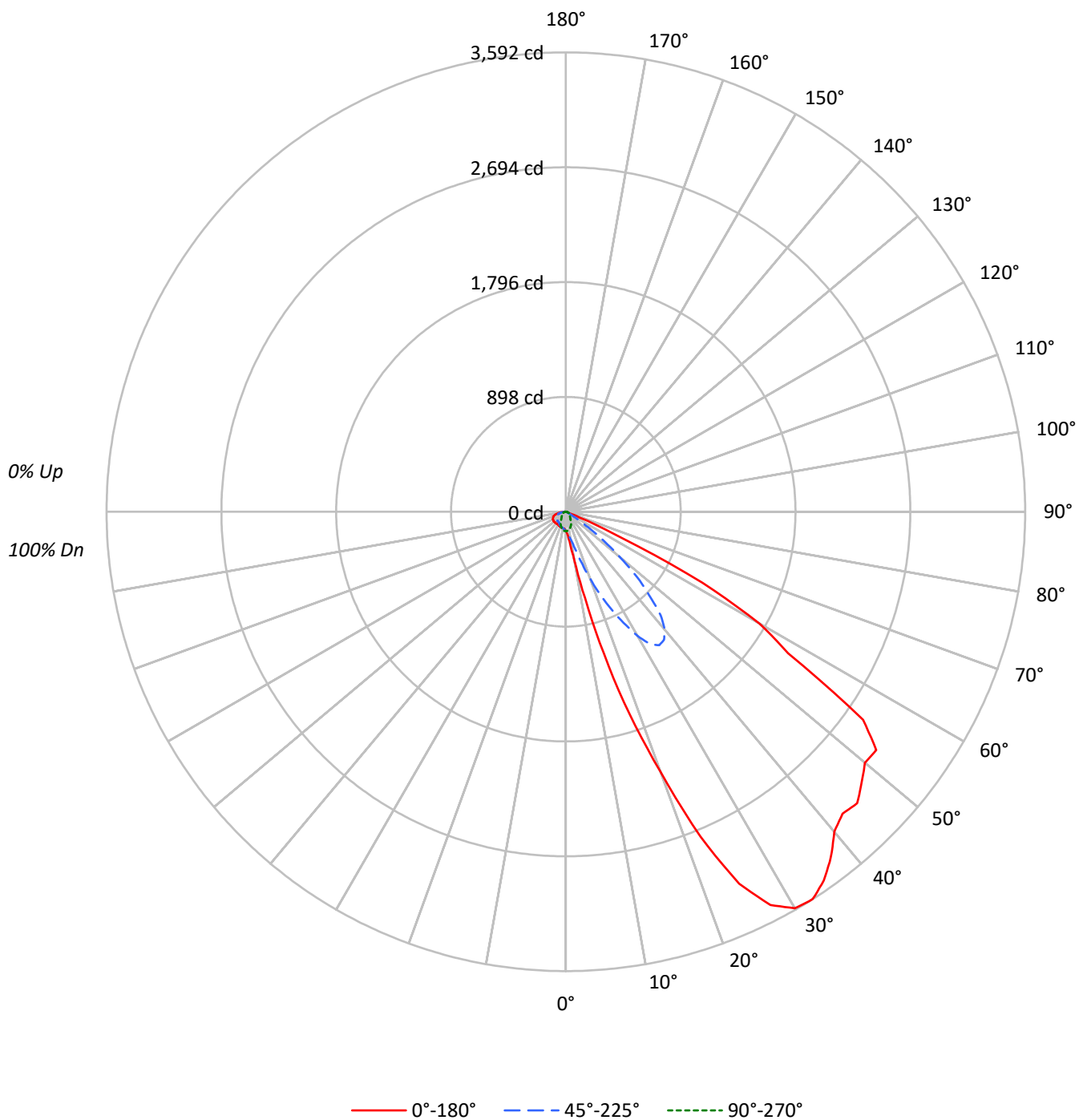
Lumens per Lamp: N/A
Luminaire Lumens: 2310.0 lumens
Efficiency: N/A
Efficacy: 80.2 lumens/watt
Spacing Criteria (0/90/45): 3.76 / 0.91 / 1.95
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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°	25661	25661	25661	25661	25661
5°	32813	29995	25759	23996	23287
10°	66751	38194	24990	22839	22839
15°	204882	58589	23286	22198	22929
20°	396132	102488	20948	21700	22818
25°	609701	159413	18224	20941	22879
30°	711939	222829	15014	20702	23546
35°	739789	267768	12447	20604	24451
40°	734174	270279	11466	21560	26619
45°	784944	223709	10936	23357	28837
50°	818100	147657	10932	25159	32259
55°	851840	64346	11020	27564	35551
60°	601780	14777	11263	30242	40059
65°	196299	4972	10799	32438	44908
70°	6143	5136	11330	34946	51412
75°	5456	5456	9515	36664	57026
80°	4066	6050	10116	36399	60698
85°	3952	8102	12054	36359	60467

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 865553 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	15.8	0.7
10°-20°	98.1	4.2
20°-30°	328.8	14.2
30°-40°	540.0	23.4
40°-50°	602.3	26.1
50°-60°	506.9	21.9
60°-70°	172.0	7.4
70°-80°	33.6	1.5
80°-90°	12.6	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°	442.7	19.2
0°-40°	982.6	42.5
0°-60°	2091.8	90.6
0°-90°	2310.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2310.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	149	149	149	149	149	
5°	190	174	149	139	135	24
15°	1149	329	131	124	129	365
25°	3208	839	96	110	120	1442
35°	3519	1274	59	98	116	2185
45°	3223	918	45	96	118	2461
55°	2837	214	37	92	118	2310
65°	482	12	26	80	110	652
75°	8	8	14	55	86	9
85°	2	4	6	18	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°	149.0	149.0	149.0	149.0	149.0	149.0	149.0	149.0	149.0	149.0	149.0
2.5°	163.3	163.3	163.3	163.3	163.3	163.3	161.2	155.1	151.0	144.9	142.9
5°	189.8	189.8	189.8	187.8	187.8	183.7	173.5	159.2	149.0	140.8	138.8
7.5°	244.9	242.9	238.8	236.8	230.6	228.6	191.9	163.3	147.0	136.7	134.7
10°	381.7	377.6	371.5	349.0	328.6	314.3	218.4	165.3	142.9	132.7	130.6
12.5°	687.8	679.7	649.0	602.1	545.0	516.4	261.3	167.4	136.7	128.6	128.6
15°	1149.1	1138.9	1081.7	1016.4	912.3	855.2	328.6	165.3	130.6	122.5	124.5
17.5°	1659.4	1630.8	1571.6	1485.9	1345.0	1277.7	428.6	161.2	122.5	118.4	122.5
20°	2161.4	2153.3	2055.3	1939.0	1765.5	1675.7	559.2	155.1	114.3	112.3	118.4
22.5°	2749.3	2714.6	2610.5	2486.0	2247.2	2128.8	700.1	147.0	106.1	106.1	114.3
25°	3208.5	3167.7	3086.0	2941.1	2714.6	2588.0	838.9	136.7	95.9	100.0	110.2
27.5°	3465.7	3418.7	3357.5	3233.0	3057.5	2945.2	977.7	124.5	85.7	93.9	106.1
30°	3580.0	3567.7	3522.8	3431.0	3269.7	3169.7	1120.5	110.2	75.5	87.8	104.1
32.5°	3592.2	3598.3	3580.0	3520.8	3398.3	3312.6	1226.7	98.0	67.4	83.7	100.0
35°	3518.7	3541.2	3553.4	3528.9	3449.3	3379.9	1273.6	83.7	59.2	79.6	98.0
37.5°	3404.4	3445.2	3486.1	3492.2	3443.2	3398.3	1261.4	71.4	55.1	77.6	98.0
40°	3265.6	3302.4	3386.1	3439.1	3422.8	3390.1	1202.2	59.2	51.0	73.5	95.9
42.5°	3202.4	3210.5	3300.3	3390.1	3386.1	3359.5	1098.1	46.9	46.9	73.5	95.9
45°	3222.8	3186.0	3245.2	3349.3	3343.2	3308.5	918.5	36.7	44.9	71.4	95.9
47.5°	3137.1	3086.0	3186.0	3308.5	3286.0	3235.0	759.3	26.5	42.9	69.4	93.9
50°	3053.4	3045.2	3122.8	3184.0	3153.4	3124.8	551.1	20.4	40.8	67.4	93.9
52.5°	3059.5	3045.2	3053.4	3051.3	2990.1	2959.5	377.6	16.3	38.8	65.3	93.9
55°	2837.0	2792.1	2749.3	2761.5	2765.6	2745.2	214.3	14.3	36.7	65.3	91.8
57.5°	2061.4	2049.2	2096.1	2228.8	2332.9	2345.1	104.1	14.3	34.7	63.3	89.8
60°	1747.1	1739.0	1741.0	1779.8	1834.9	1800.2	42.9	14.3	32.7	61.2	87.8
62.5°	1204.2	1283.8	1316.5	1406.3	1369.5	1320.5	16.3	16.3	30.6	57.1	85.7
65°	481.7	479.6	524.5	567.4	555.2	518.4	12.2	14.3	26.5	53.1	79.6
67.5°	112.3	102.1	87.8	75.5	63.3	51.0	12.2	14.3	24.5	49.0	75.5
70°	12.2	12.2	12.2	12.2	12.2	10.2	10.2	14.3	22.5	44.9	69.4
72.5°	10.2	10.2	10.2	10.2	10.2	10.2	10.2	12.2	18.4	38.8	63.3
75°	8.2	8.2	8.2	8.2	8.2	8.2	8.2	10.2	14.3	32.7	55.1
77.5°	6.1	6.1	6.1	8.2	6.1	8.2	8.2	10.2	12.2	26.5	46.9
80°	4.1	4.1	6.1	6.1	6.1	6.1	6.1	8.2	10.2	22.5	36.7
82.5°	4.1	4.1	4.1	4.1	4.1	4.1	6.1	6.1	8.2	16.3	26.5
85°	2.0	2.0	2.0	2.0	2.0	4.1	4.1	6.1	6.1	12.2	18.4
87.5°	2.0	2.0	2.0	2.0	2.0	2.0	4.1	4.1	6.1	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°	149.0	149.0
2.5°	140.8	140.8
5°	136.7	134.7
7.5°	132.7	132.7
10°	130.6	130.6
12.5°	128.6	130.6
15°	128.6	128.6
17.5°	124.5	126.5
20°	122.5	124.5
22.5°	120.4	122.5
25°	118.4	120.4
27.5°	116.3	118.4
30°	114.3	118.4
32.5°	112.3	116.3
35°	112.3	116.3
37.5°	112.3	118.4
40°	112.3	118.4
42.5°	112.3	118.4
45°	112.3	118.4
47.5°	112.3	118.4
50°	112.3	120.4
52.5°	112.3	120.4
55°	112.3	118.4
57.5°	110.2	118.4
60°	110.2	116.3
62.5°	108.2	114.3
65°	104.1	110.2
67.5°	100.0	108.2
70°	93.9	102.1
72.5°	87.8	93.9
75°	79.6	85.7
77.5°	69.4	73.5
80°	55.1	61.2
82.5°	42.9	46.9
85°	28.6	30.6
87.5°	12.2	14.3
90°	0.0	0.0

(END OF REPORT)