

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: P1308499

Luminaire Tested: P3SQAS24R459030D010 E3SQCA451MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1308499
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-84)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS24R459030D010 E3SQCA451MW
Description: 3in Adjustable LED luminaire with, R45 optic, 3000K CCT AND, 90CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

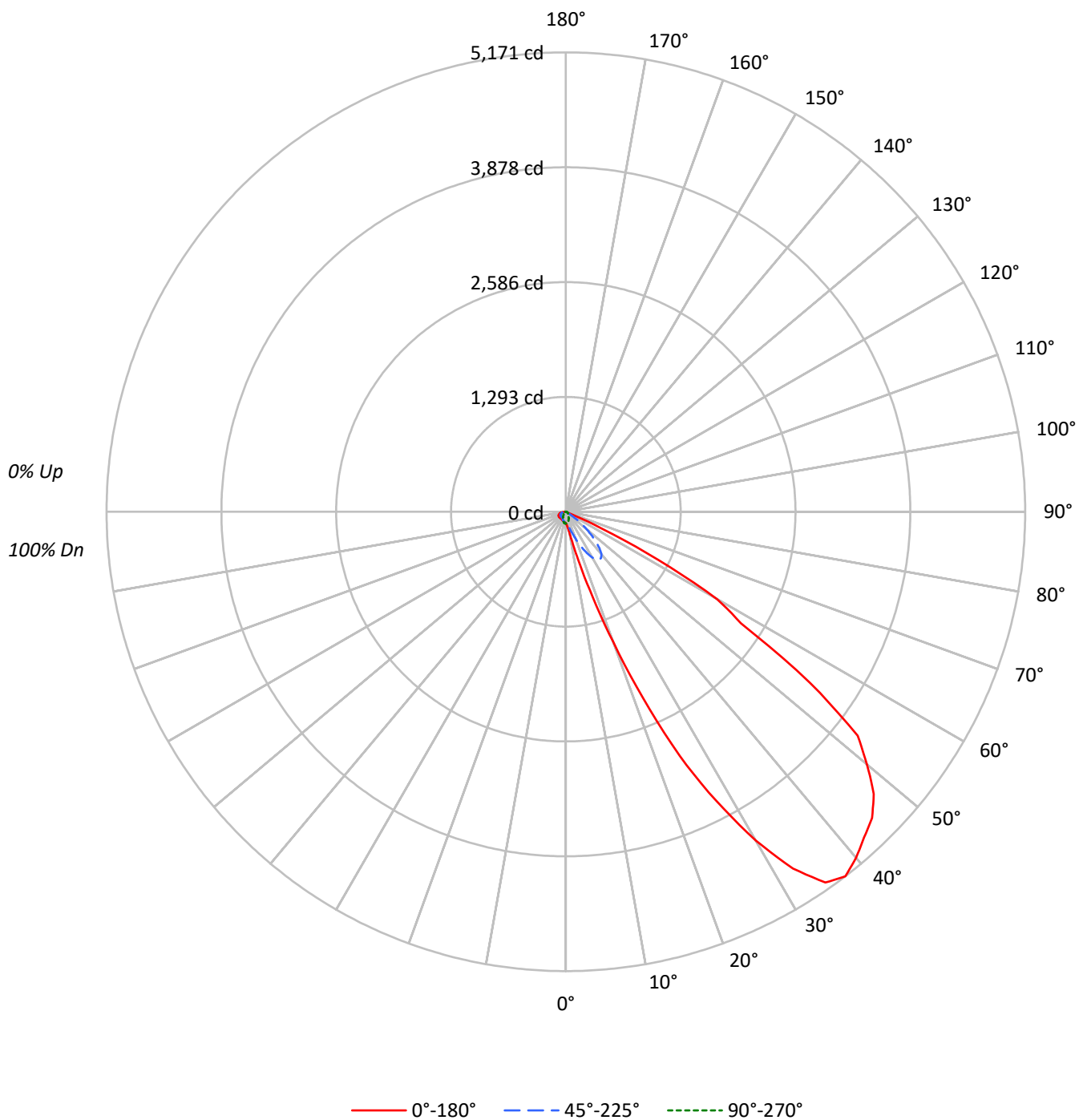
Lumens per Lamp: N/A
Luminaire Lumens: 2310.0 lumens
Efficiency: N/A
Efficacy: 80.2 lumens/watt
Spacing Criteria (0/90/45): 3.81 / 0.82 / 1.83
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	0
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		96	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	66	77	70	65		74	69	64		71	67	63	61
4	83	71	62	56	81	70	62	55	67	60	55		65	59	54		63	58	53	51
5	76	63	53	47	73	61	53	46	59	52	46		57	51	45		55	50	45	43
6	69	55	46	39	67	54	46	39	52	45	39		51	44	39		49	43	38	36
7	63	49	40	34	61	48	40	33	47	39	33		45	38	33		44	37	33	31
8	58	44	35	29	56	43	35	29	42	34	29		40	33	28		39	33	28	26
9	53	39	31	25	52	39	30	25	38	30	25		36	29	25		35	29	24	22
10	49	36	27	22	48	35	27	22	34	27	21		33	26	21		32	26	21	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	23009	23009	23009	23009	23009
5°	27384	25413	22768	21126	21126
10°	43720	29712	21370	20024	20024
15°	108904	39814	19399	18721	19399
20°	286844	59473	16788	17833	18896
25°	575971	88134	14499	16684	18490
30°	849116	118047	11773	16327	18972
35°	1071051	138446	10029	16042	19658
40°	1142741	139883	9015	16727	21021
45°	1187304	116689	8378	18121	22773
50°	1185433	81317	8172	19425	25561
55°	1007526	36091	8587	21769	28074
60°	677179	7233	8542	24318	32206
65°	179673	3097	8558	26448	36554
70°	4784	3827	8661	28853	41341
75°	3793	3793	8917	30476	46978
80°	3769	5653	9422	32134	52962
85°	3754	7509	15018	33988	52760

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 10°

Vertical Angle: 47.5°

Luminance: 1217889 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.3	0.6
10°-20°	65.2	2.8
20°-30°	268.7	11.6
30°-40°	566.3	24.5
40°-50°	698.7	30.2
50°-60°	523.7	22.7
60°-70°	134.8	5.8
70°-80°	27.9	1.2
80°-90°	11.3	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°	347.2	15.0
0°-40°	913.5	39.5
0°-60°	2135.9	92.5
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°	134	134	134	134	134	
5°	158	147	132	122	122	18
15°	611	223	109	105	109	223
25°	3031	464	76	88	97	1412
35°	5094	658	48	76	94	3104
45°	4875	479	34	74	94	3730
55°	3356	120	29	72	94	2897
65°	441	8	21	65	90	636
75°	6	6	13	46	71	7
85°	2	4	8	17	27	2
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	133.6	133.6	133.6	133.6	133.6	133.6	133.6	133.6	133.6	133.6	133.6
2.5°	141.2	141.2	141.2	141.2	141.2	141.2	141.2	139.3	137.4	133.6	129.8
5°	158.4	156.5	156.5	156.5	154.6	152.7	152.7	147.0	139.3	131.7	126.0
7.5°	187.1	187.1	185.1	181.3	179.4	175.6	171.8	156.5	139.3	127.9	120.2
10°	250.0	246.2	240.5	236.7	227.1	213.8	204.2	169.9	137.4	122.2	116.4
12.5°	374.1	381.7	362.7	343.6	316.8	292.0	261.5	192.8	137.4	116.4	110.7
15°	610.8	624.1	587.9	549.7	484.8	423.7	366.5	223.3	133.6	108.8	103.1
17.5°	998.2	1015.4	954.3	864.6	763.5	641.3	536.3	265.3	129.8	101.2	97.3
20°	1565.1	1563.2	1444.9	1332.3	1137.6	958.2	761.6	324.5	124.1	91.6	91.6
22.5°	2261.8	2269.4	2124.4	1922.1	1645.3	1357.1	1044.1	393.2	116.4	84.0	85.9
25°	3031.0	2966.1	2794.3	2548.1	2195.0	1796.1	1383.8	463.8	108.8	76.3	80.2
27.5°	3672.3	3609.3	3412.8	3120.7	2740.9	2267.5	1729.3	534.4	99.3	68.7	74.4
30°	4269.8	4189.6	3952.9	3622.7	3170.3	2658.8	2053.8	593.6	87.8	59.2	68.7
32.5°	4762.2	4689.7	4420.5	4036.9	3544.5	2994.7	2328.6	639.4	76.3	53.4	64.9
35°	5094.3	5019.9	4771.7	4349.9	3813.6	3239.1	2551.9	658.5	66.8	47.7	63.0
37.5°	5170.7	5130.6	4953.1	4558.0	3998.7	3395.6	2695.1	652.8	55.4	43.9	59.2
40°	5082.9	5092.4	5008.4	4680.1	4098.0	3462.4	2754.2	622.2	45.8	40.1	57.3
42.5°	4970.2	4995.1	4989.3	4729.8	4140.0	3466.2	2729.4	561.2	36.3	36.3	55.4
45°	4874.8	4899.6	4934.0	4708.8	4111.3	3416.6	2651.2	479.1	26.7	34.4	55.4
47.5°	4701.1	4727.8	4777.5	4540.8	3966.3	3288.7	2509.9	389.4	19.1	32.4	53.4
50°	4424.4	4437.7	4424.4	4159.1	3687.6	3082.5	2280.9	303.5	13.4	30.5	53.4
52.5°	4140.0	4113.2	4002.5	3666.6	3244.8	2756.2	1992.7	215.7	9.5	28.6	51.5
55°	3355.5	3313.5	3231.4	3025.3	2784.8	2355.3	1610.9	120.2	9.5	28.6	49.6
57.5°	2338.2	2361.1	2389.7	2347.7	2237.0	1855.3	1223.5	53.4	9.5	26.7	49.6
60°	1966.0	1946.9	1948.8	1922.1	1738.8	1353.3	841.7	21.0	9.5	24.8	47.7
62.5°	1173.8	1187.2	1212.0	1217.7	1036.4	755.8	440.9	9.5	9.5	22.9	45.8
65°	440.9	461.9	404.6	351.2	278.7	204.2	103.1	7.6	11.5	21.0	42.0
67.5°	13.4	15.3	19.1	17.2	17.2	15.3	11.5	7.6	11.5	19.1	40.1
70°	9.5	9.5	9.5	9.5	9.5	7.6	7.6	7.6	9.5	17.2	36.3
72.5°	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	9.5	15.3	32.4
75°	5.7	7.6	5.7	5.7	5.7	5.7	5.7	5.7	9.5	13.4	26.7
77.5°	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	7.6	11.5	22.9
80°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	5.7	7.6	9.5	19.1
82.5°	3.8	3.8	3.8	1.9	3.8	3.8	3.8	3.8	7.6	7.6	15.3
85°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	3.8	5.7	7.6	9.5
87.5°	0.0	0.0	0.0	0.0	1.9	1.9	1.9	3.8	5.7	5.7	5.7
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):

	135°	157.5°	180°
0°	133.6	133.6	133.6
2.5°	126.0	126.0	126.0
5°	122.2	122.2	122.2
7.5°	118.3	118.3	118.3
10°	114.5	114.5	114.5
12.5°	110.7	110.7	112.6
15°	105.0	108.8	108.8
17.5°	101.2	105.0	106.9
20°	97.3	101.2	103.1
22.5°	91.6	97.3	101.2
25°	87.8	95.4	97.3
27.5°	84.0	93.5	97.3
30°	82.1	91.6	95.4
32.5°	78.3	89.7	93.5
35°	76.3	89.7	93.5
37.5°	76.3	87.8	93.5
40°	74.4	87.8	93.5
42.5°	74.4	87.8	93.5
45°	74.4	87.8	93.5
47.5°	72.5	87.8	95.4
50°	72.5	89.7	95.4
52.5°	72.5	89.7	95.4
55°	72.5	89.7	93.5
57.5°	70.6	87.8	93.5
60°	70.6	87.8	93.5
62.5°	66.8	85.9	91.6
65°	64.9	84.0	89.7
67.5°	61.1	82.1	85.9
70°	57.3	76.3	82.1
72.5°	51.5	72.5	78.3
75°	45.8	66.8	70.6
77.5°	40.1	59.2	63.0
80°	32.4	49.6	53.4
82.5°	24.8	38.2	40.1
85°	17.2	24.8	26.7
87.5°	7.6	11.5	13.4
90°	0.0	0.0	0.0

(END OF REPORT)