

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: P1309591

Luminaire Tested: P3SQAS24R359035D010 E3SQCA451MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1309591
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-77)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS24R359035D010 E3SQCA451MW
Description: 3in Adjustable LED luminaire with, R35 optic, 3500K CCT AND, 90CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

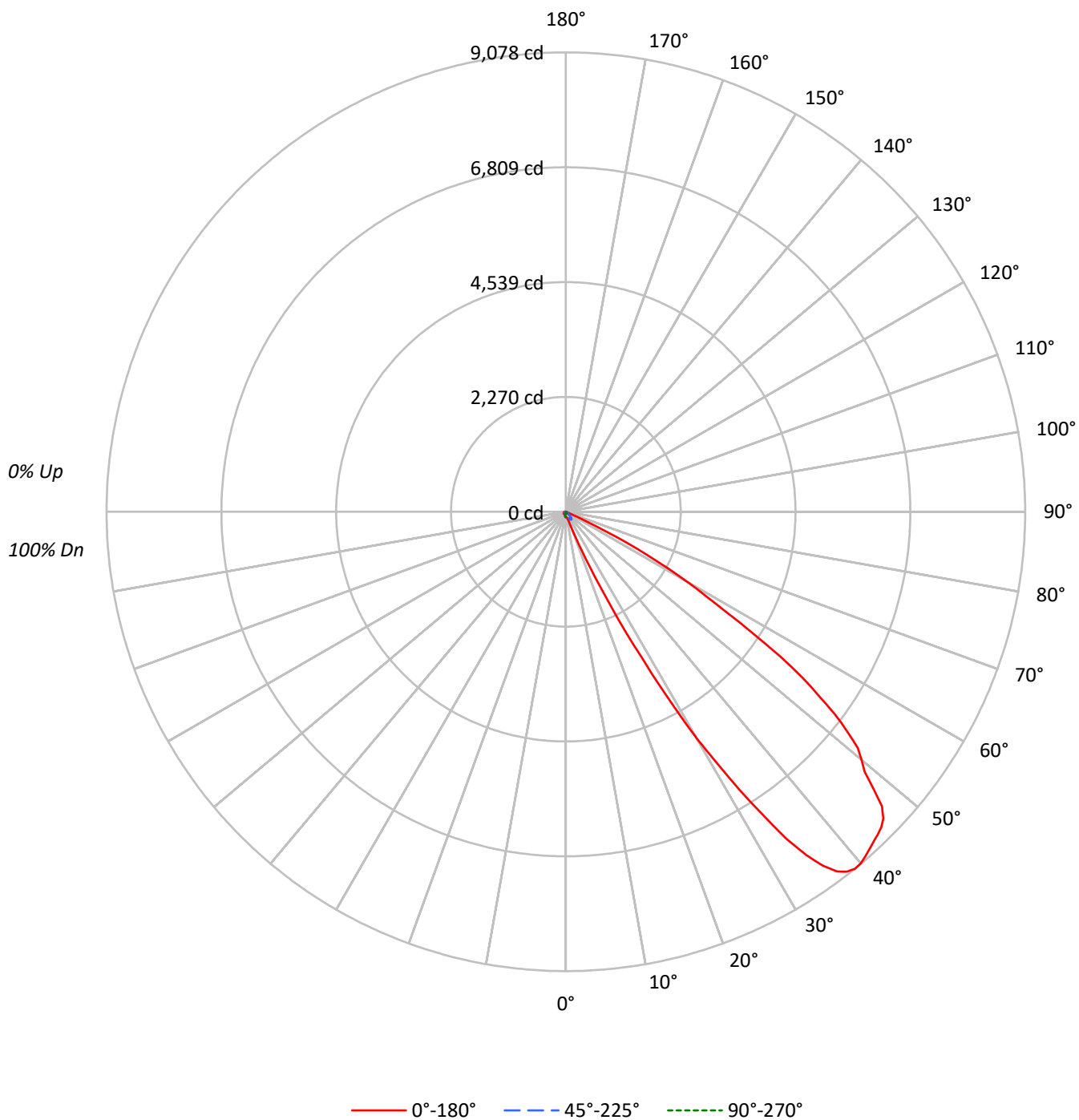
Lumens per Lamp: N/A
Luminaire Lumens: 2261.0 lumens
Efficiency: N/A
Efficacy: 78.5 lumens/watt
Spacing Criteria (0/90/45): 4.01 / 0.66 / 1.41
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	110	106	102	99	107	104	100	97	100	97	94	96	93	91	92	90	89	87		
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	79	72	66	76	70	65	74	68	64	71	67	63	61		
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	52	50		
5	75	62	52	46	73	61	52	45	58	51	45	56	50	44	55	49	44	42		
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	35		
7	62	48	38	32	60	47	38	32	45	37	32	44	37	31	42	36	31	29		
8	57	42	33	27	55	41	33	27	40	32	27	39	32	26	38	31	26	24		
9	52	38	29	23	50	37	29	23	36	28	23	35	28	22	34	27	22	20		
10	48	34	25	19	46	33	25	19	32	25	19	31	24	19	30	24	19	17		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	17928	17928	17928	17928	17928
5°	19414	19051	17651	15870	15525
10°	20338	18555	15704	13571	13571
15°	29116	18204	12730	11643	12017
20°	72944	19446	10098	10098	11216
25°	338590	24817	7753	9311	10470
30°	1029348	33688	6085	8531	10560
35°	1739651	39043	5151	8158	10302
40°	2039214	38534	4137	8251	11016
45°	2147538	27352	3483	8939	11934
50°	2044152	16397	3269	9297	13129
55°	1712899	6756	3663	10419	15313
60°	958936	1412	4202	11952	16878
65°	165532	815	4157	13326	19112
70°	3072	1007	5136	14401	21602
75°	2728	1331	6787	16303	24421
80°	1984	1984	8133	18249	28365
85°	0	3952	16203	20156	32209

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 46°

Luminance: 2162742 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.4	0.4
10°-20°	26.6	1.2
20°-30°	138.7	6.1
30°-40°	599.1	26.5
40°-50°	854.6	37.8
50°-60°	529.3	23.4
60°-70°	80.6	3.6
70°-80°	15.0	0.7
80°-90°	7.5	0.3
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°	174.8	7.7
0°-40°	773.9	34.2
0°-60°	2157.8	95.4
0°-90°	2261.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2261.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	104	104	104	104	104	
5°	112	110	102	92	90	11
15°	163	102	71	65	67	59
25°	1782	131	41	49	55	1066
35°	8274	186	24	39	49	4968
45°	8817	112	14	37	49	6661
55°	5705	22	12	35	51	4859
65°	406	2	10	33	47	830
75°	4	2	10	24	37	4
85°	0	2	8	10	16	1
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°	104.1	104.1	104.1	104.1	104.1	104.1	104.1	104.1	104.1	104.1	104.1
2.5°	108.2	108.2	108.2	108.2	108.2	108.2	108.2	108.2	108.2	104.1	102.1
5°	112.3	112.3	110.2	110.2	110.2	110.2	110.2	110.2	106.1	102.1	95.9
7.5°	114.3	114.3	112.3	112.3	112.3	112.3	110.2	108.2	104.1	95.9	89.8
10°	116.3	116.3	116.3	116.3	114.3	112.3	110.2	106.1	100.0	89.8	83.7
12.5°	130.6	130.6	128.6	124.5	120.4	116.3	112.3	104.1	91.8	81.6	75.5
15°	163.3	161.2	157.2	151.0	142.9	132.7	124.5	102.1	83.7	71.4	67.4
17.5°	228.6	224.5	218.4	198.0	179.6	161.2	144.9	102.1	75.5	63.3	59.2
20°	398.0	400.0	357.2	308.2	267.4	222.5	181.7	106.1	67.4	55.1	53.1
22.5°	830.7	798.0	696.0	577.6	440.9	340.9	257.2	116.3	59.2	46.9	46.9
25°	1781.8	1657.3	1410.4	1065.4	751.1	532.7	373.5	130.6	53.1	40.8	42.9
27.5°	3253.4	3141.2	2645.2	1992.1	1322.6	804.2	506.2	149.0	46.9	34.7	38.8
30°	5176.1	4865.8	4218.8	3265.7	2210.4	1230.7	679.7	169.4	38.8	30.6	36.7
31°	5776.1	5633.3	4845.4	3778.0	2590.1	1461.4	753.1	175.5	36.7	30.6	34.7
32°	6488.5	6235.4	5529.2	4339.2	2975.8	1667.5	840.9	181.7	34.7	26.5	34.7
33°	7125.3	6880.3	6021.1	4833.2	3365.7	1902.2	934.8	183.7	30.6	26.5	32.7
34°	7794.7	7460.0	6608.9	5349.6	3765.7	2155.3	1020.5	185.7	28.6	24.5	32.7
35°	8274.4	7939.6	7115.1	5757.8	4110.6	2379.8	1118.5	185.7	26.5	24.5	30.6
36°	8645.8	8351.9	7551.8	6178.2	4453.5	2581.9	1196.0	185.7	22.5	22.5	30.6
37°	8901.0	8621.3	7845.7	6539.5	4714.8	2761.5	1265.4	185.7	20.4	22.5	30.6
38°	9025.5	8792.8	8129.4	6802.8	4967.9	2902.4	1320.6	181.7	18.4	20.4	28.6
39°	9078.5	8888.7	8302.9	7025.2	5157.7	3024.8	1361.4	177.6	16.3	20.4	28.6
40°	9070.4	8905.0	8400.9	7178.3	5310.8	3108.5	1383.8	171.4	14.3	18.4	28.6
41°	9023.4	8880.5	8451.9	7309.0	5402.6	3165.6	1389.9	165.3	12.2	18.4	26.5
42°	8970.4	8839.7	8468.3	7378.3	5461.8	3184.0	1373.6	157.2	12.2	16.3	26.5
43°	8915.2	8794.8	8468.3	7400.8	5476.1	3171.8	1347.1	142.9	10.2	16.3	26.5
44°	8870.3	8756.0	8441.7	7394.7	5445.5	3124.8	1298.1	126.5	8.2	16.3	26.5
45°	8817.3	8705.0	8407.0	7355.9	5386.3	3045.2	1236.9	112.3	6.1	14.3	26.5
46°	8723.4	8635.6	8345.8	7276.3	5292.4	2935.0	1159.3	102.1	4.1	14.3	24.5
47°	8541.7	8466.2	8227.4	7157.9	5167.9	2804.4	1079.7	91.8	4.1	14.3	24.5
48°	8176.4	8174.4	7990.7	6937.5	4969.9	2641.1	996.0	81.6	4.1	14.3	24.5
49°	7823.3	7786.6	7558.0	6549.7	4686.2	2445.2	908.3	73.5	2.0	14.3	24.5
50°	7629.4	7549.8	7174.2	6092.5	4322.9	2173.7	814.4	61.2	2.0	12.2	24.5
51°	7427.3	7313.0	6870.1	5680.2	3890.2	1912.5	712.3	49.0	2.0	12.2	22.5
52°	7062.0	6953.8	6457.8	5286.3	3469.8	1645.1	614.4	40.8	2.0	12.2	24.5
53°	6668.1	6512.9	5974.1	4853.6	3100.3	1408.3	514.3	34.7	2.0	12.2	22.5
54°	6172.1	6102.7	5484.3	4322.9	2667.6	1179.7	422.5	28.6	2.0	12.2	22.5
55°	5704.7	5602.6	4959.7	3780.0	2275.8	967.5	353.1	22.5	2.0	12.2	22.5
56°	5108.7	4955.6	4353.5	3282.0	1877.8	779.7	298.0	18.4	2.0	12.2	22.5
57°	4398.4	4235.2	3759.6	2728.9	1473.6	593.9	249.0	14.3	2.0	12.2	22.5
58°	3720.8	3580.0	3069.7	2106.3	1110.3	412.3	206.1	10.2	2.0	10.2	22.5
59°	3214.6	3059.5	2553.3	1620.6	771.5	304.1	155.1	8.2	2.0	12.2	22.5
60°	2784.0	2584.0	2055.3	1255.2	551.1	218.4	114.3	4.1	4.1	12.2	22.5
62.5°	1604.3	1416.5	981.7	510.3	226.6	112.3	55.1	2.0	4.1	12.2	22.5
65°	406.2	361.3	234.7	110.2	63.3	38.8	20.4	2.0	4.1	10.2	20.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
67.5°	14.3	14.3	14.3	12.2	10.2	8.2	4.1	2.0	4.1	10.2	20.4
70°	6.1	6.1	6.1	4.1	4.1	2.0	2.0	2.0	4.1	10.2	18.4
72.5°	4.1	4.1	4.1	4.1	2.0	2.0	2.0	2.0	6.1	10.2	16.3
75°	4.1	4.1	4.1	4.1	2.0	2.0	2.0	2.0	6.1	10.2	16.3
77.5°	4.1	4.1	2.0	2.0	2.0	2.0	2.0	2.0	6.1	8.2	14.3
80°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	6.1	8.2	12.2
82.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	6.1	8.2	10.2
85°	0.0	0.0	0.0	0.0	0.0	2.0	0.0	2.0	6.1	8.2	8.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	6.1	8.2	6.1
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):

	135°	157.5°	180°
0°	104.1	104.1	104.1
2.5°	98.0	98.0	98.0
5°	91.8	91.8	89.8
7.5°	85.7	83.7	83.7
10°	77.6	77.6	77.6
12.5°	71.4	71.4	71.4
15°	65.3	67.4	67.4
17.5°	59.2	63.3	63.3
20°	55.1	59.2	61.2
22.5°	51.0	55.1	57.1
25°	49.0	53.1	55.1
27.5°	44.9	51.0	55.1
30°	42.9	49.0	53.1
31°	42.9	49.0	51.0
32°	40.8	49.0	51.0
33°	40.8	49.0	51.0
34°	40.8	46.9	51.0
35°	38.8	46.9	49.0
36°	38.8	46.9	49.0
37°	38.8	46.9	51.0
38°	38.8	46.9	49.0
39°	36.7	46.9	49.0
40°	36.7	46.9	49.0
41°	36.7	46.9	49.0
42°	36.7	46.9	49.0
43°	36.7	46.9	49.0
44°	36.7	44.9	49.0
45°	36.7	44.9	49.0
46°	36.7	46.9	49.0
47°	36.7	46.9	51.0
48°	36.7	44.9	49.0
49°	34.7	44.9	49.0
50°	34.7	44.9	49.0
51°	34.7	46.9	51.0
52°	34.7	46.9	51.0
53°	34.7	46.9	51.0
54°	34.7	46.9	49.0
55°	34.7	46.9	51.0
56°	34.7	46.9	49.0
57°	34.7	46.9	49.0
58°	34.7	44.9	49.0
59°	34.7	44.9	49.0
60°	34.7	44.9	49.0
62.5°	32.7	44.9	49.0
65°	32.7	42.9	46.9



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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
67.5°	30.6	42.9	44.9
70°	28.6	40.8	42.9
72.5°	26.5	38.8	40.8
75°	24.5	34.7	36.7
77.5°	20.4	30.6	34.7
80°	18.4	26.5	28.6
82.5°	14.3	22.5	24.5
85°	10.2	16.3	16.3
87.5°	4.1	8.2	8.2
90°	0.0	0.0	0.0

(END OF REPORT)