

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: P1313774

Luminaire Tested: P3SQAS20R559730D010 E3SQCA451MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1313774
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: P3SQAS20R559730D010 E3SQCA451MW
Description: 3in Adjustable LED luminaire with, R55 optic, 3000K CCT AND, 97CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

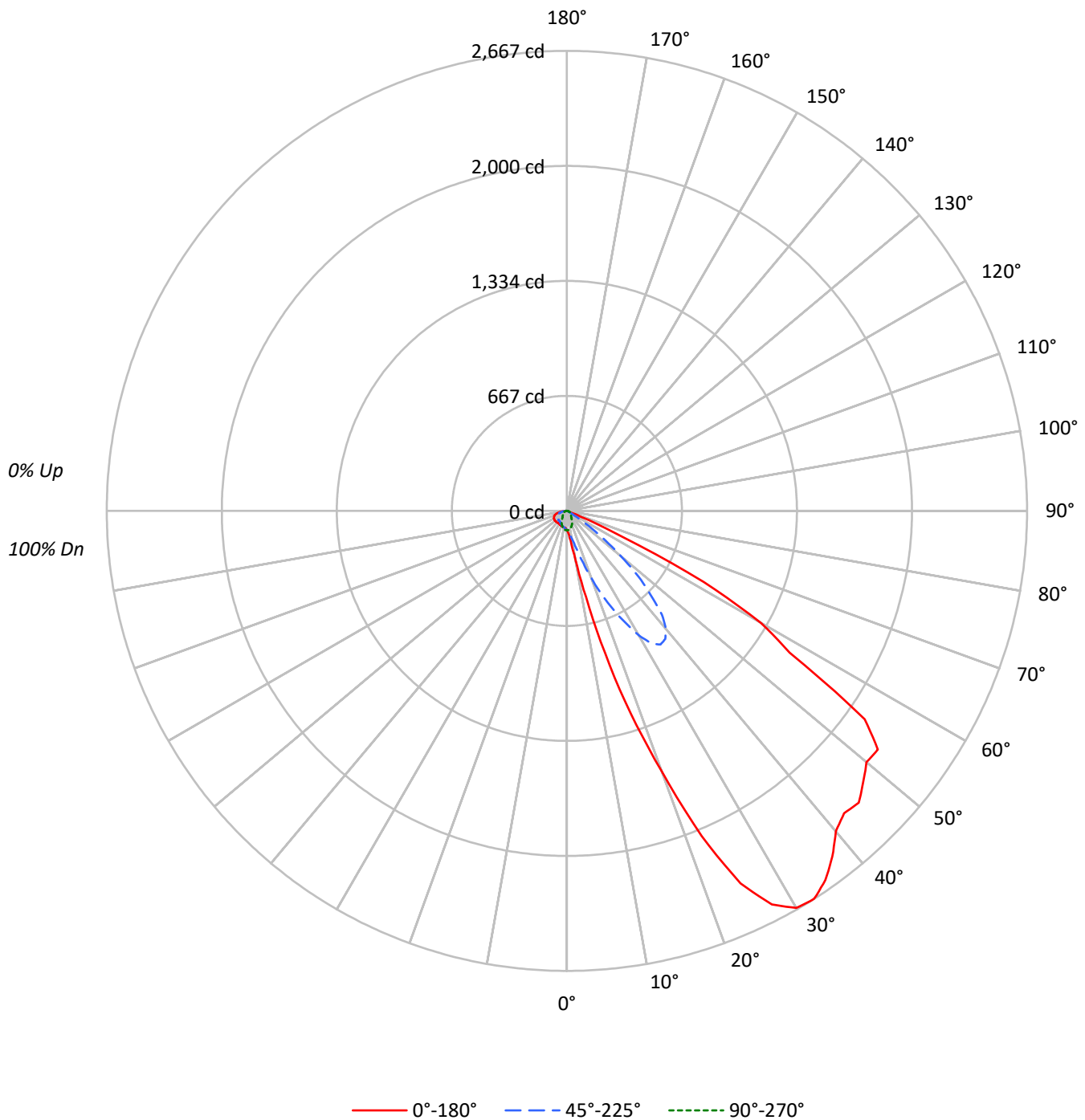
Lumens per Lamp: N/A
Luminaire Lumens: 1715.0 lumens
Efficiency: N/A
Efficacy: 59.5 lumens/watt
Spacing Criteria (0/90/45): 3.76 / 0.91 / 1.95
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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°	19048	19048	19048	19048	19048
5°	24359	22267	19121	17807	17288
10°	49561	28348	18555	16963	16963
15°	152106	43505	17295	16475	17027
20°	294102	76096	15560	16110	16935
25°	452663	118349	13530	15544	16988
30°	528545	165436	11156	15372	17480
35°	549244	198808	9230	15285	18165
40°	545078	200652	8521	16007	19762
45°	582765	166083	8111	17341	21409
50°	607372	109611	8118	18675	23953
55°	632440	47772	8197	20478	26393
60°	446780	10953	8336	22458	29760
65°	145727	3708	8028	24084	33335
70°	4582	3827	8409	25933	38169
75°	4059	4059	7053	27216	42321
80°	2975	4463	7538	27076	45126
85°	2964	5928	8892	26874	44856

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 642594 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.7	0.7
10°-20°	72.8	4.2
20°-30°	244.1	14.2
30°-40°	400.9	23.4
40°-50°	447.1	26.1
50°-60°	376.3	21.9
60°-70°	127.7	7.4
70°-80°	25.0	1.5
80°-90°	9.3	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°	328.6	19.2
0°-40°	729.5	42.5
0°-60°	1553.0	90.6
0°-90°	1715.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1715.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	111	111	111	111	111	
5°	141	129	111	103	100	18
15°	853	244	97	92	96	271
25°	2382	623	71	82	89	1071
35°	2612	946	44	73	86	1622
45°	2393	682	33	71	88	1827
55°	2106	159	27	68	88	1715
65°	358	9	20	59	82	484
75°	6	6	11	41	64	6
85°	2	3	4	14	23	2
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°	110.6	110.6	110.6	110.6	110.6	110.6	110.6	110.6	110.6	110.6	110.6
2.5°	121.2	121.2	121.2	121.2	121.2	121.2	119.7	115.2	112.1	107.6	106.1
5°	140.9	140.9	140.9	139.4	139.4	136.4	128.8	118.2	110.6	104.6	103.0
7.5°	181.8	180.3	177.3	175.8	171.2	169.7	142.4	121.2	109.1	101.5	100.0
10°	283.4	280.3	275.8	259.1	244.0	233.4	162.1	122.7	106.1	98.5	97.0
12.5°	510.7	504.6	481.9	447.0	404.6	383.4	194.0	124.3	101.5	95.5	95.5
15°	853.1	845.5	803.1	754.6	677.3	634.9	244.0	122.7	97.0	90.9	92.4
17.5°	1231.9	1210.7	1166.8	1103.1	998.6	948.6	318.2	119.7	90.9	87.9	90.9
20°	1604.7	1598.6	1525.9	1439.5	1310.7	1244.1	415.2	115.2	84.9	83.3	87.9
22.5°	2041.1	2015.4	1938.1	1845.6	1668.4	1580.5	519.7	109.1	78.8	78.8	84.9
25°	2382.1	2351.8	2291.1	2183.6	2015.4	1921.4	622.8	101.5	71.2	74.2	81.8
27.5°	2573.0	2538.1	2492.7	2400.2	2269.9	2186.6	725.8	92.4	63.6	69.7	78.8
30°	2657.8	2648.8	2615.4	2547.2	2427.5	2353.3	831.9	81.8	56.1	65.2	77.3
32.5°	2666.9	2671.5	2657.8	2613.9	2523.0	2459.3	910.7	72.7	50.0	62.1	74.2
35°	2612.4	2629.1	2638.1	2620.0	2560.9	2509.3	945.6	62.1	43.9	59.1	72.7
37.5°	2527.5	2557.8	2588.1	2592.7	2556.3	2523.0	936.5	53.0	40.9	57.6	72.7
40°	2424.5	2451.8	2513.9	2553.3	2541.2	2516.9	892.5	43.9	37.9	54.6	71.2
42.5°	2377.5	2383.6	2450.2	2516.9	2513.9	2494.2	815.2	34.9	34.9	54.6	71.2
45°	2392.7	2365.4	2409.3	2486.6	2482.1	2456.3	681.9	27.3	33.3	53.0	71.2
47.5°	2329.0	2291.1	2365.4	2456.3	2439.6	2401.8	563.7	19.7	31.8	51.5	69.7
50°	2266.9	2260.8	2318.4	2363.9	2341.1	2319.9	409.1	15.2	30.3	50.0	69.7
52.5°	2271.4	2260.8	2266.9	2265.4	2219.9	2197.2	280.3	12.1	28.8	48.5	69.7
55°	2106.3	2072.9	2041.1	2050.2	2053.2	2038.1	159.1	10.6	27.3	48.5	68.2
57.5°	1530.5	1521.4	1556.2	1654.7	1732.0	1741.1	77.3	10.6	25.8	47.0	66.7
60°	1297.1	1291.0	1292.6	1321.3	1362.3	1336.5	31.8	10.6	24.2	45.5	65.2
62.5°	894.0	953.1	977.4	1044.0	1016.8	980.4	12.1	12.1	22.7	42.4	63.6
65°	357.6	356.1	389.4	421.3	412.2	384.9	9.1	10.6	19.7	39.4	59.1
67.5°	83.3	75.8	65.2	56.1	47.0	37.9	9.1	10.6	18.2	36.4	56.1
70°	9.1	9.1	9.1	9.1	9.1	7.6	7.6	10.6	16.7	33.3	51.5
72.5°	7.6	7.6	7.6	7.6	7.6	7.6	7.6	9.1	13.6	28.8	47.0
75°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	7.6	10.6	24.2	40.9
77.5°	4.5	4.5	4.5	6.1	4.5	6.1	6.1	7.6	9.1	19.7	34.9
80°	3.0	3.0	4.5	4.5	4.5	4.5	4.5	6.1	7.6	16.7	27.3
82.5°	3.0	3.0	3.0	3.0	3.0	3.0	4.5	4.5	6.1	12.1	19.7
85°	1.5	1.5	1.5	1.5	1.5	3.0	3.0	4.5	4.5	9.1	13.6
87.5°	1.5	1.5	1.5	1.5	1.5	1.5	3.0	3.0	4.5	4.5	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):

	157.5°	180°
0°	110.6	110.6
2.5°	104.6	104.6
5°	101.5	100.0
7.5°	98.5	98.5
10°	97.0	97.0
12.5°	95.5	97.0
15°	95.5	95.5
17.5°	92.4	93.9
20°	90.9	92.4
22.5°	89.4	90.9
25°	87.9	89.4
27.5°	86.4	87.9
30°	84.9	87.9
32.5°	83.3	86.4
35°	83.3	86.4
37.5°	83.3	87.9
40°	83.3	87.9
42.5°	83.3	87.9
45°	83.3	87.9
47.5°	83.3	87.9
50°	83.3	89.4
52.5°	83.3	89.4
55°	83.3	87.9
57.5°	81.8	87.9
60°	81.8	86.4
62.5°	80.3	84.9
65°	77.3	81.8
67.5°	74.2	80.3
70°	69.7	75.8
72.5°	65.2	69.7
75°	59.1	63.6
77.5°	51.5	54.6
80°	40.9	45.5
82.5°	31.8	34.9
85°	21.2	22.7
87.5°	9.1	10.6
90°	0.0	0.0

(END OF REPORT)