

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: P1316754

Luminaire Tested: P3SQAS02R659830DE010 E3SQCA451MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1316754
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-82)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS02R659830DE010 E3SQCA451MB
Description: 3in Adjustable LED luminaire with, R65 optic, 3000K CCT AND, 98CRI , E3SQCA451MB TRIM
Light Source: -
Ballast/Driver: -

Summary

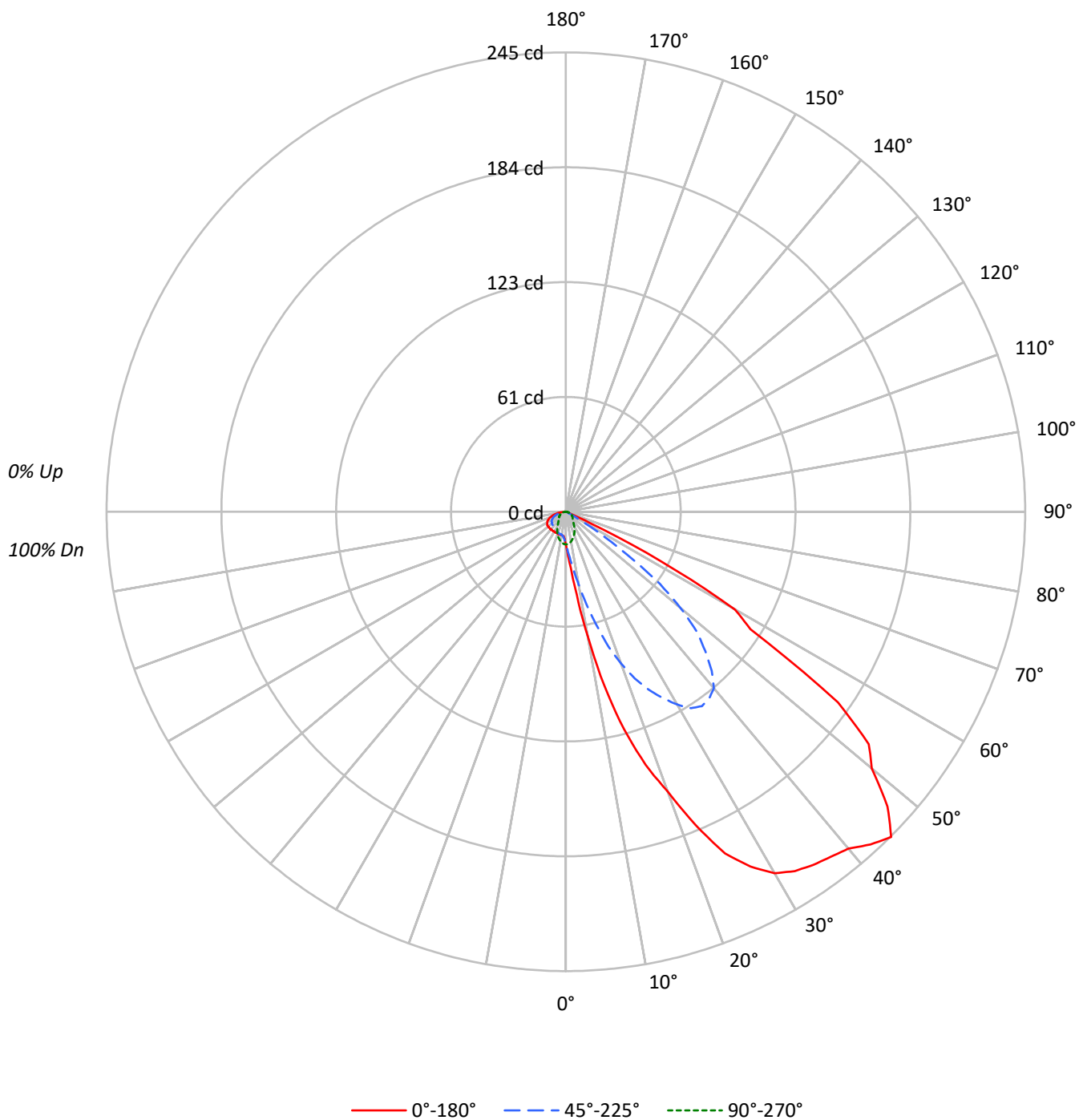
Lumens per Lamp: N/A
Luminaire Lumens: 178.0 lumens
Efficiency: N/A
Efficacy: 49.4 lumens/watt
Spacing Criteria (0/90/45): 3.28 / 0.89 / 2.04
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 3.6
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	108	104	100	97	100	97	94	96	94	91	92	90	89	87		
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	74		
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	62		
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55	53		
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45		
6	71	57	49	42	69	57	48	42	55	47	42	53	46	41	51	46	41	39		
7	65	52	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	34		
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29		
9	56	42	34	28	54	41	33	28	40	33	28	39	33	28	38	32	28	26		
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	2979	2979	2979	2979	2979
5°	5221	4253	2939	2368	2282
10°	11804	6873	2816	2186	2221
15°	21449	11037	2603	2193	2264
20°	29086	15762	2364	2199	2291
25°	38214	19915	2071	2128	2337
30°	44267	23605	1770	2128	2446
35°	48335	26596	1493	2187	2586
40°	52720	27608	1326	2293	2765
45°	59770	25598	1267	2436	2996
50°	57096	21381	1232	2572	3296
55°	53206	12010	1291	2792	3633
60°	35857	2583	1274	2962	3927
65°	5542	652	1223	3056	4279
70°	604	604	1158	3122	4582
75°	599	599	1065	3061	4658
80°	496	694	1091	2876	4562
85°	395	790	988	2766	4150

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 59770 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.1	1.2
10°-20°	11.3	6.4
20°-30°	26.6	14.9
30°-40°	40.2	22.6
40°-50°	46.2	25.9
50°-60°	36.7	20.6
60°-70°	11.0	6.2
70°-80°	3.0	1.7
80°-90°	1.0	0.6
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°	40.0	22.5
0°-40°	80.2	45.1
0°-60°	163.0	91.6
0°-90°	178.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	178.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	17	17	17	17	17	
5°	30	25	17	14	13	4
15°	120	62	15	12	13	35
25°	201	105	11	11	12	92
35°	230	126	7	10	12	144
45°	245	105	5	10	12	182
55°	177	40	4	9	12	146
65°	14	2	3	8	10	30
75°	1	1	2	5	7	1
85°	0	0	0	1	2	0
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°	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3
2.5°	22.0	22.1	22.0	22.0	21.8	21.6	20.3	18.9	17.3	16.1	15.2
5°	30.2	30.3	29.8	29.8	29.4	28.9	24.6	20.5	17.0	15.0	13.7
7.5°	44.6	45.3	44.4	43.4	41.4	41.0	30.7	22.1	16.6	13.9	12.9
10°	67.5	66.9	66.0	63.9	60.5	58.9	39.3	23.7	16.1	13.2	12.5
12.5°	95.1	93.7	92.6	88.7	84.1	81.4	50.0	25.2	15.3	12.5	12.3
15°	120.3	119.2	116.7	113.0	107.3	105.1	61.9	26.1	14.6	12.0	12.3
17.5°	141.5	140.5	139.0	135.3	129.4	126.2	75.3	26.6	13.7	11.6	12.1
20°	158.7	157.9	156.0	153.0	147.1	144.0	86.0	26.6	12.9	11.2	12.0
22.5°	180.8	179.2	176.7	172.2	164.9	160.3	96.2	26.1	12.0	10.9	11.6
25°	201.1	200.1	196.9	191.5	183.7	179.0	104.8	25.0	10.9	10.4	11.2
27.5°	213.3	212.6	209.5	204.0	195.3	191.7	111.9	23.4	9.8	9.8	11.1
30°	222.6	221.1	218.1	212.7	203.8	199.5	118.7	21.4	8.9	9.3	10.7
32.5°	227.2	226.7	224.0	219.3	210.6	205.8	124.2	18.9	7.9	8.9	10.5
35°	229.9	229.3	227.2	222.7	214.5	209.9	126.5	16.6	7.1	8.6	10.4
37.5°	232.0	231.5	228.8	224.3	216.1	211.3	125.5	14.1	6.4	8.2	10.2
40°	234.5	232.6	228.4	224.0	216.5	211.8	122.8	11.8	5.9	8.0	10.2
42.5°	240.6	233.8	227.4	223.3	216.1	210.8	115.1	9.3	5.4	7.7	10.0
45°	245.4	233.4	225.2	222.0	214.7	208.6	105.1	6.8	5.2	7.5	10.0
47.5°	232.7	225.4	221.7	219.9	212.0	205.4	94.8	4.6	5.0	7.3	9.8
50°	213.1	212.2	210.8	211.0	203.8	198.5	79.8	3.2	4.6	7.1	9.6
52.5°	203.6	202.6	200.1	198.3	191.1	186.5	63.2	2.5	4.5	7.0	9.5
55°	177.2	177.9	175.3	176.3	174.2	171.9	40.0	2.3	4.3	6.6	9.3
57.5°	116.7	120.3	126.5	134.0	140.8	145.5	21.6	2.3	3.9	6.4	8.9
60°	104.1	103.2	103.0	104.4	107.4	109.9	7.5	2.1	3.7	5.9	8.6
62.5°	56.9	56.6	61.9	71.0	76.4	76.9	2.1	2.1	3.4	5.5	8.0
65°	13.6	14.1	15.7	19.6	23.2	25.5	1.6	2.0	3.0	5.2	7.5
67.5°	2.1	2.3	2.3	2.9	3.2	3.2	1.4	1.8	2.7	4.6	7.0
70°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.6	2.3	4.1	6.2
72.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.2	1.4	2.0	3.6	5.4
75°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.2	1.6	2.9	4.6
77.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.9	1.1	1.4	2.3	3.7
80°	0.5	0.5	0.5	0.5	0.5	0.5	0.7	0.9	1.1	1.8	2.9
82.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.7	0.9	1.4	2.1
85°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.5	0.5	0.9	1.4
87.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.5	0.7
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):

	157.5°	180°
0°	17.3	17.3
2.5°	14.6	14.5
5°	13.2	13.2
7.5°	12.7	12.7
10°	12.5	12.7
12.5°	12.5	12.7
15°	12.5	12.7
17.5°	12.5	12.7
20°	12.3	12.5
22.5°	12.1	12.3
25°	12.0	12.3
27.5°	11.8	12.3
30°	11.8	12.3
32.5°	11.8	12.3
35°	11.6	12.3
37.5°	11.6	12.3
40°	11.6	12.3
42.5°	11.6	12.3
45°	11.6	12.3
47.5°	11.6	12.3
50°	11.6	12.3
52.5°	11.4	12.3
55°	11.4	12.1
57.5°	11.1	11.8
60°	10.7	11.4
62.5°	10.4	11.1
65°	9.8	10.5
67.5°	9.3	9.8
70°	8.4	9.1
72.5°	7.5	8.0
75°	6.4	7.0
77.5°	5.4	5.9
80°	4.3	4.6
82.5°	3.0	3.4
85°	2.0	2.1
87.5°	0.9	0.9
90°	0.0	0.0

(END OF REPORT)