

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: P1316740

Luminaire Tested: P3SQAS02R559830DE010 E3SQCA451MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1316740
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: P3SQAS02R559830DE010 E3SQCA451MW
Description: 3in Adjustable LED luminaire with, R55 optic, 3000K CCT AND, 98CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

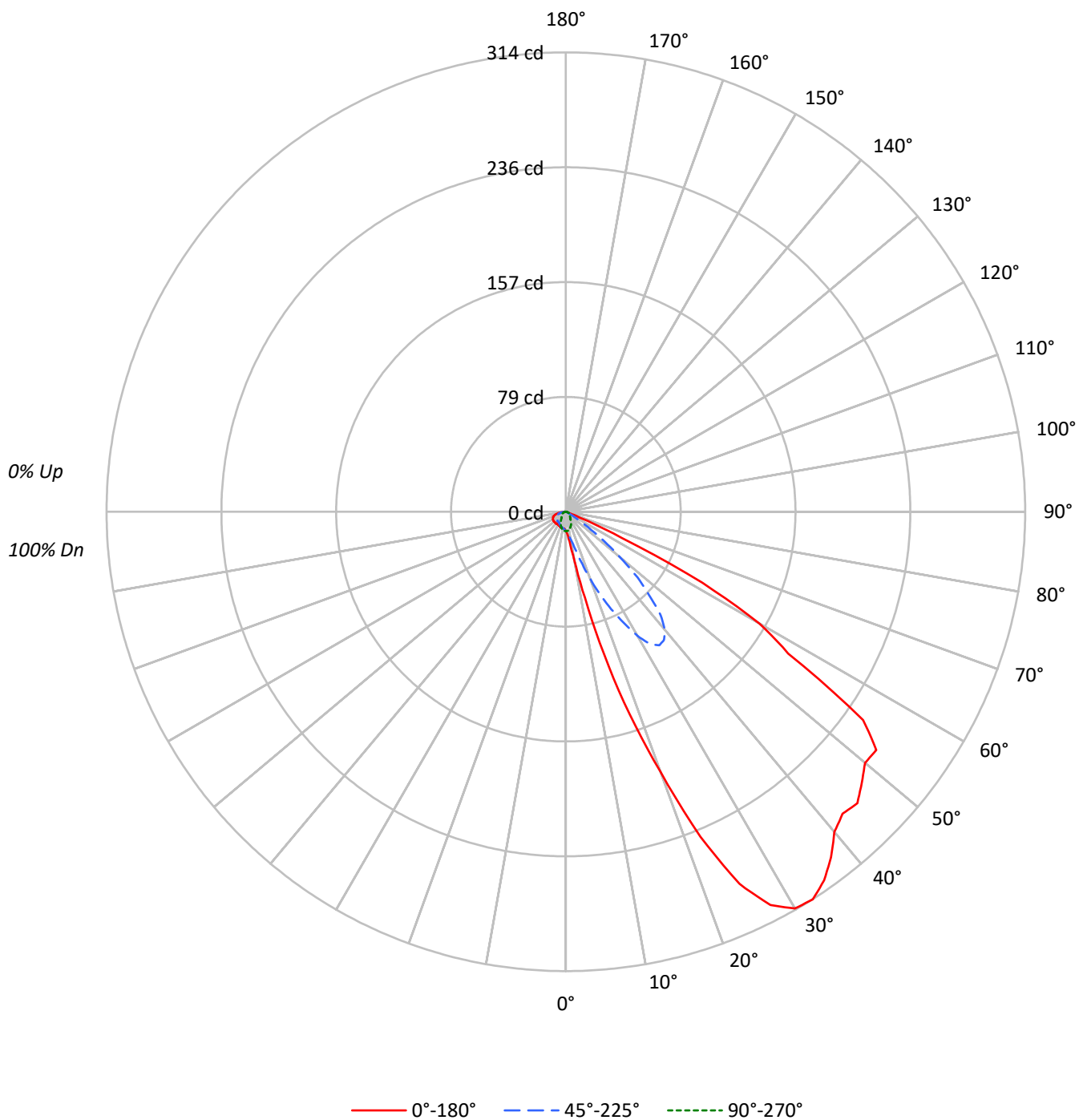
Lumens per Lamp: N/A
Luminaire Lumens: 202.0 lumens
Efficiency: N/A
Efficacy: 56.1 lumens/watt
Spacing Criteria (0/90/45): 3.76 / 0.91 / 1.95
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	2239	2239	2239	2239	2239
5°	2870	2628	2247	2092	2040
10°	5841	3340	2186	1994	1994
15°	17919	5117	2033	1943	1997
20°	34639	8962	1833	1906	1998
25°	53321	13948	1596	1824	1995
30°	62265	19489	1313	1810	2068
35°	64692	23421	1093	1808	2144
40°	64209	23629	1012	1888	2338
45°	68635	19558	950	2046	2533
50°	71538	12914	965	2197	2813
55°	74495	5615	961	2402	3123
60°	52631	1274	999	2652	3513
65°	17156	448	937	2853	3912
70°	554	453	1007	3072	4482
75°	466	466	799	3194	4991
80°	397	496	893	3174	5356
85°	395	790	988	3162	5335

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 75678 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.4	0.7
10°-20°	8.6	4.2
20°-30°	28.8	14.2
30°-40°	47.2	23.4
40°-50°	52.7	26.1
50°-60°	44.3	21.9
60°-70°	15.0	7.4
70°-80°	2.9	1.5
80°-90°	1.1	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°	38.7	19.2
0°-40°	85.9	42.5
0°-60°	182.9	90.6
0°-90°	202.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	202.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	13	13	13	13	13	
5°	17	15	13	12	12	2
15°	100	29	11	11	11	32
25°	281	73	8	10	10	126
35°	308	111	5	9	10	191
45°	282	80	4	8	10	215
55°	248	19	3	8	10	202
65°	42	1	2	7	10	57
75°	1	1	1	5	8	1
85°	0	0	0	2	3	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°	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0
2.5°	14.3	14.3	14.3	14.3	14.3	14.3	14.1	13.6	13.2	12.7	12.5
5°	16.6	16.6	16.6	16.4	16.4	16.1	15.2	13.9	13.0	12.3	12.1
7.5°	21.4	21.2	20.9	20.7	20.2	20.0	16.8	14.3	12.9	12.0	11.8
10°	33.4	33.0	32.5	30.5	28.7	27.5	19.1	14.5	12.5	11.6	11.4
12.5°	60.1	59.4	56.8	52.7	47.7	45.2	22.8	14.6	12.0	11.2	11.2
15°	100.5	99.6	94.6	88.9	79.8	74.8	28.7	14.5	11.4	10.7	10.9
17.5°	145.1	142.6	137.4	129.9	117.6	111.7	37.5	14.1	10.7	10.4	10.7
20°	189.0	188.3	179.7	169.6	154.4	146.5	48.9	13.6	10.0	9.8	10.4
22.5°	240.4	237.4	228.3	217.4	196.5	186.2	61.2	12.9	9.3	9.3	10.0
25°	280.6	277.0	269.9	257.2	237.4	226.3	73.4	12.0	8.4	8.7	9.6
27.5°	303.1	299.0	293.6	282.7	267.4	257.5	85.5	10.9	7.5	8.2	9.3
30°	313.1	312.0	308.1	300.0	285.9	277.2	98.0	9.6	6.6	7.7	9.1
32.5°	314.1	314.7	313.1	307.9	297.2	289.7	107.3	8.6	5.9	7.3	8.7
35°	307.7	309.7	310.7	308.6	301.6	295.6	111.4	7.3	5.2	7.0	8.6
37.5°	297.7	301.3	304.8	305.4	301.1	297.2	110.3	6.2	4.8	6.8	8.6
40°	285.6	288.8	296.1	300.7	299.3	296.5	105.1	5.2	4.5	6.4	8.4
42.5°	280.0	280.7	288.6	296.5	296.1	293.8	96.0	4.1	4.1	6.4	8.4
45°	281.8	278.6	283.8	292.9	292.3	289.3	80.3	3.2	3.9	6.2	8.4
47.5°	274.3	269.9	278.6	289.3	287.4	282.9	66.4	2.3	3.7	6.1	8.2
50°	267.0	266.3	273.1	278.4	275.8	273.3	48.2	1.8	3.6	5.9	8.2
52.5°	267.5	266.3	267.0	266.8	261.5	258.8	33.0	1.4	3.4	5.7	8.2
55°	248.1	244.2	240.4	241.5	241.8	240.1	18.7	1.2	3.2	5.7	8.0
57.5°	180.3	179.2	183.3	194.9	204.0	205.1	9.1	1.2	3.0	5.5	7.9
60°	152.8	152.1	152.2	155.6	160.5	157.4	3.7	1.2	2.9	5.4	7.7
62.5°	105.3	112.3	115.1	123.0	119.8	115.5	1.4	1.4	2.7	5.0	7.5
65°	42.1	41.9	45.9	49.6	48.5	45.3	1.1	1.2	2.3	4.6	7.0
67.5°	9.8	8.9	7.7	6.6	5.5	4.5	1.1	1.2	2.1	4.3	6.6
70°	1.1	1.1	1.1	1.1	1.1	0.9	0.9	1.2	2.0	3.9	6.1
72.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.1	1.6	3.4	5.5
75°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.9	1.2	2.9	4.8
77.5°	0.5	0.5	0.5	0.7	0.5	0.7	0.7	0.9	1.1	2.3	4.1
80°	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.7	0.9	2.0	3.2
82.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.7	1.4	2.3
85°	0.2	0.2	0.2	0.2	0.2	0.4	0.4	0.5	0.5	1.1	1.6
87.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4	0.5	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°	13.0	13.0
2.5°	12.3	12.3
5°	12.0	11.8
7.5°	11.6	11.6
10°	11.4	11.4
12.5°	11.2	11.4
15°	11.2	11.2
17.5°	10.9	11.1
20°	10.7	10.9
22.5°	10.5	10.7
25°	10.4	10.5
27.5°	10.2	10.4
30°	10.0	10.4
32.5°	9.8	10.2
35°	9.8	10.2
37.5°	9.8	10.4
40°	9.8	10.4
42.5°	9.8	10.4
45°	9.8	10.4
47.5°	9.8	10.4
50°	9.8	10.5
52.5°	9.8	10.5
55°	9.8	10.4
57.5°	9.6	10.4
60°	9.6	10.2
62.5°	9.5	10.0
65°	9.1	9.6
67.5°	8.7	9.5
70°	8.2	8.9
72.5°	7.7	8.2
75°	7.0	7.5
77.5°	6.1	6.4
80°	4.8	5.4
82.5°	3.7	4.1
85°	2.5	2.7
87.5°	1.1	1.2
90°	0.0	0.0

(END OF REPORT)