

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: P1317041

Luminaire Tested: P3SQAS09R609830DE010 E3SQCA451MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1317041
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-81)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS09R609830DE010 E3SQCA451MW
Description: 3in Adjustable LED luminaire with, R60 optic, 3000K CCT AND, 98CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

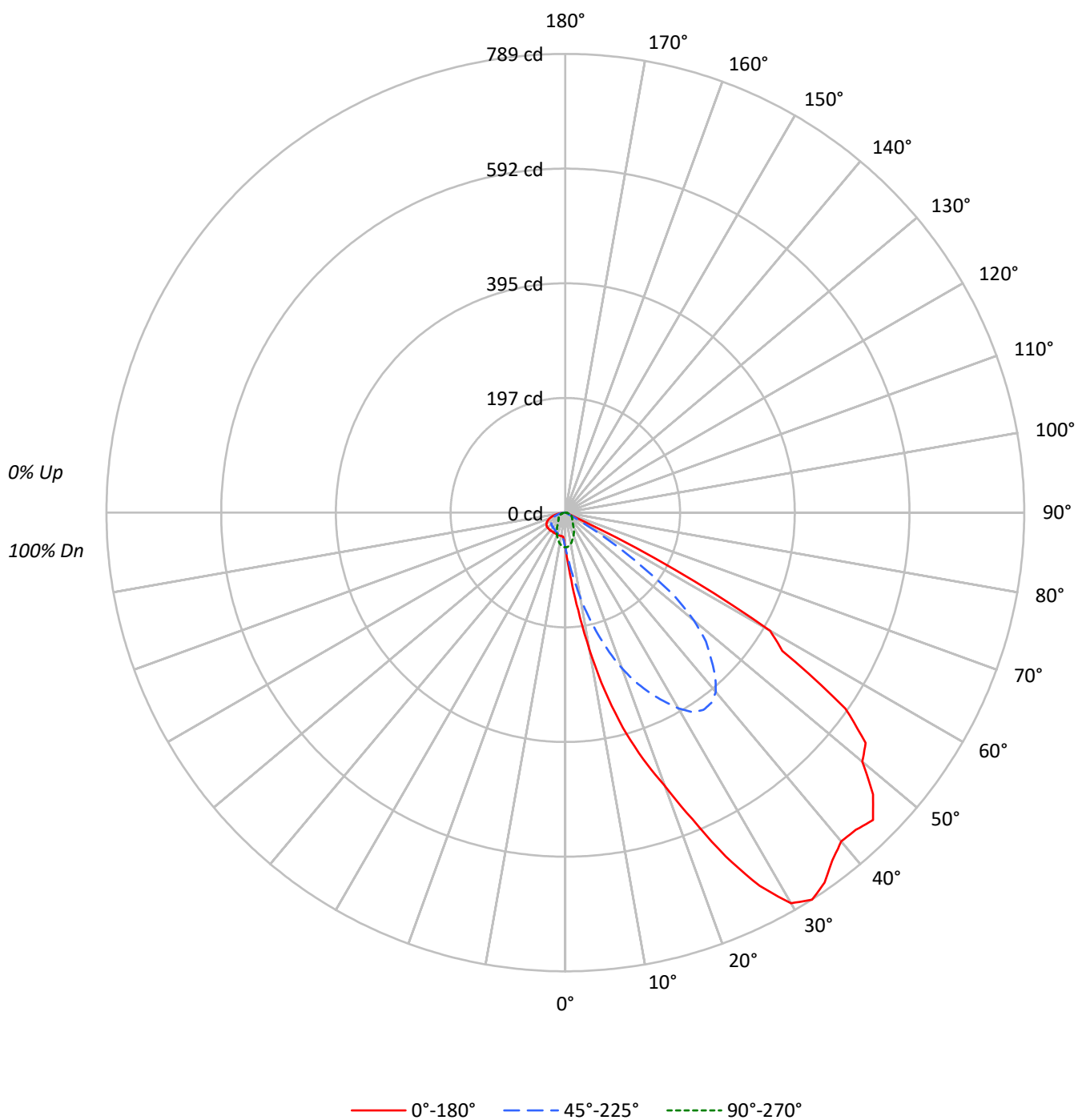
Lumens per Lamp: N/A
Luminaire Lumens: 601.0 lumens
Efficiency: N/A
Efficacy: 54.6 lumens/watt
Spacing Criteria (0/90/45): 3.39 / 0.84 / 2.07
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11
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	93	91	92	90	89	87		
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76	74		
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62		
4	84	72	64	58	82	71	63	57	69	62	56	66	60	56	64	59	55	53		
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45		
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39		
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33		
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29		
9	55	42	33	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25		
10	52	38	30	25	50	38	30	25	37	29	24	36	29	24	35	29	24	22		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	10247	10247	10247	10247	10247
5°	20210	15767	10114	7659	7278
10°	41744	25707	9461	6978	7065
15°	68288	38566	8469	7007	7203
20°	91619	52270	7606	7001	7313
25°	123954	64875	6651	6955	7582
30°	154280	77239	5548	6960	7935
35°	163339	87062	4709	7127	8263
40°	165940	90513	4294	7374	8970
45°	182158	86220	4116	7843	9718
50°	178576	77298	4099	8333	10690
55°	176493	47411	4114	9008	11800
60°	140017	11298	4340	9610	12779
65°	8925	1997	4238	9780	13815
70°	1913	2216	4129	10172	14603
75°	1797	2196	3660	9848	14905
80°	1587	2182	3769	9720	14083
85°	988	2174	4347	8695	14030

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°

Vertical Angle: 52.5°

Luminance: 192263 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.4	1.2
10°-20°	37.5	6.2
20°-30°	86.9	14.5
30°-40°	135.1	22.5
40°-50°	153.9	25.6
50°-60°	129.6	21.6
60°-70°	37.6	6.3
70°-80°	9.6	1.6
80°-90°	3.2	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°	131.8	21.9
0°-40°	266.9	44.4
0°-60°	550.5	91.6
0°-90°	601.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	601.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	60	60	60	60	60	
5°	117	91	58	44	42	15
15°	383	216	48	39	40	111
25°	652	341	35	37	40	303
35°	777	414	22	34	39	483
45°	748	354	17	32	40	562
55°	588	158	14	30	39	495
65°	22	5	10	24	34	108
75°	3	3	6	15	22	3
85°	0	1	2	4	7	1
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5
2.5°	80.3	79.8	79.8	79.2	78.7	78.1	76.5	75.9	72.7	66.1	59.5
5°	116.9	116.4	114.7	114.2	111.4	107.6	103.8	100.0	91.2	72.7	58.5
7.5°	169.4	170.5	169.4	163.3	159.5	153.5	142.0	133.8	116.4	79.2	56.3
10°	238.7	238.7	237.1	227.8	219.6	208.1	193.4	179.2	147.0	85.2	54.1
12.5°	314.1	315.8	307.6	299.9	285.2	271.0	250.8	229.5	181.9	90.1	51.4
15°	383.0	381.9	373.7	363.8	348.6	328.9	307.6	280.3	216.3	93.4	47.5
17.5°	444.2	442.0	434.9	423.9	405.4	383.5	356.2	326.7	251.9	96.2	44.8
20°	499.9	492.2	484.0	472.6	454.5	431.6	403.2	369.9	285.2	96.2	41.5
22.5°	570.4	562.7	551.2	533.8	509.7	481.3	448.0	410.3	314.7	94.0	38.2
25°	652.3	646.3	626.6	604.2	573.1	539.2	500.4	449.6	341.4	90.7	35.0
27.5°	723.9	717.3	697.6	664.9	627.2	586.7	545.8	493.9	364.9	84.7	31.1
30°	775.8	767.6	752.3	721.1	675.2	626.1	577.5	527.7	388.4	77.6	27.9
32.5°	789.4	788.3	776.9	753.9	712.9	658.9	600.9	546.9	407.0	68.3	25.1
35°	776.9	778.5	776.3	764.8	734.8	681.8	616.2	557.2	414.1	59.0	22.4
37.5°	753.9	756.1	759.9	761.6	742.4	695.5	625.0	561.6	412.5	49.7	20.8
40°	738.1	737.0	737.0	747.9	744.1	701.5	626.1	558.3	402.6	39.9	19.1
42.5°	739.7	727.7	719.5	737.0	742.4	698.7	619.0	549.6	381.3	30.6	17.5
45°	747.9	722.2	708.0	730.4	739.2	689.5	605.9	536.5	354.0	21.3	16.9
47.5°	717.3	700.4	698.2	729.9	733.2	673.6	585.7	515.7	327.8	14.8	15.8
50°	666.5	663.8	675.2	708.0	708.6	647.4	562.7	478.0	288.5	10.4	15.3
52.5°	650.7	652.3	662.7	679.6	663.8	603.1	521.2	446.3	238.7	8.2	14.8
55°	587.8	590.6	600.4	610.8	599.3	549.0	470.9	408.1	157.9	7.6	13.7
57.5°	442.5	449.6	467.6	476.9	478.0	447.4	426.7	351.8	89.0	7.6	13.1
60°	406.5	397.2	389.0	369.9	352.4	348.6	350.7	263.9	32.8	7.1	12.6
62.5°	212.5	208.1	220.7	228.9	231.1	243.1	227.3	139.3	7.1	7.1	11.5
65°	21.9	21.9	26.8	35.5	59.0	78.7	74.8	40.4	4.9	6.6	10.4
67.5°	6.6	6.6	6.6	7.6	9.8	9.8	8.2	6.0	4.9	6.0	9.3
70°	3.8	3.8	3.8	3.8	3.8	3.8	4.4	3.8	4.4	5.5	8.2
72.5°	3.3	3.3	3.3	3.3	3.8	3.8	3.8	3.8	3.8	4.9	7.1
75°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	3.3	3.3	3.8	5.5
77.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.7	2.7	2.7	3.3	4.4
80°	1.6	1.6	1.6	1.6	1.6	2.2	2.2	2.2	2.2	2.7	3.8
82.5°	1.1	1.1	1.1	1.1	1.6	1.6	1.6	1.6	1.6	2.2	2.7
85°	0.5	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.6	2.2
87.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.1	1.1	1.6
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):

	112.5°	135°	157.5°	180°
0°	59.5	59.5	59.5	59.5
2.5°	54.1	50.3	48.1	47.0
5°	49.2	44.3	42.6	42.1
7.5°	44.8	41.5	41.0	41.0
10°	42.1	39.9	40.4	40.4
12.5°	40.4	39.9	40.4	41.0
15°	38.8	39.3	40.4	40.4
17.5°	37.7	38.8	39.9	40.4
20°	36.1	38.2	39.9	39.9
22.5°	35.0	37.7	39.3	39.9
25°	33.9	36.6	38.8	39.9
27.5°	32.2	36.1	38.8	39.3
30°	30.6	35.0	38.2	39.9
32.5°	29.0	34.4	38.2	39.3
35°	27.9	33.9	38.2	39.3
37.5°	26.8	33.3	38.2	39.9
40°	26.2	32.8	37.7	39.9
42.5°	25.1	32.8	37.7	39.9
45°	24.6	32.2	37.7	39.9
47.5°	24.0	31.7	37.7	39.9
50°	22.9	31.1	37.1	39.9
52.5°	22.4	30.6	37.1	39.9
55°	21.3	30.0	36.6	39.3
57.5°	20.8	29.0	36.1	38.2
60°	19.7	27.9	35.0	37.1
62.5°	18.0	26.2	33.3	36.1
65°	16.4	24.0	31.7	33.9
67.5°	14.8	22.4	29.5	31.7
70°	13.1	20.2	26.8	29.0
72.5°	11.5	17.5	24.0	25.7
75°	9.8	14.8	20.2	22.4
77.5°	7.6	12.0	16.9	18.6
80°	6.0	9.8	13.1	14.2
82.5°	4.9	7.1	9.8	10.4
85°	3.3	4.4	6.0	7.1
87.5°	1.6	2.2	2.7	3.3
90°	0.0	0.0	0.0	0.0

(END OF REPORT)