

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: P1305493

Luminaire Tested: P3SQASS02R609024DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1305493
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: P3SQASS02R609024DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R60 optic, 2400K CCT AND, 90CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

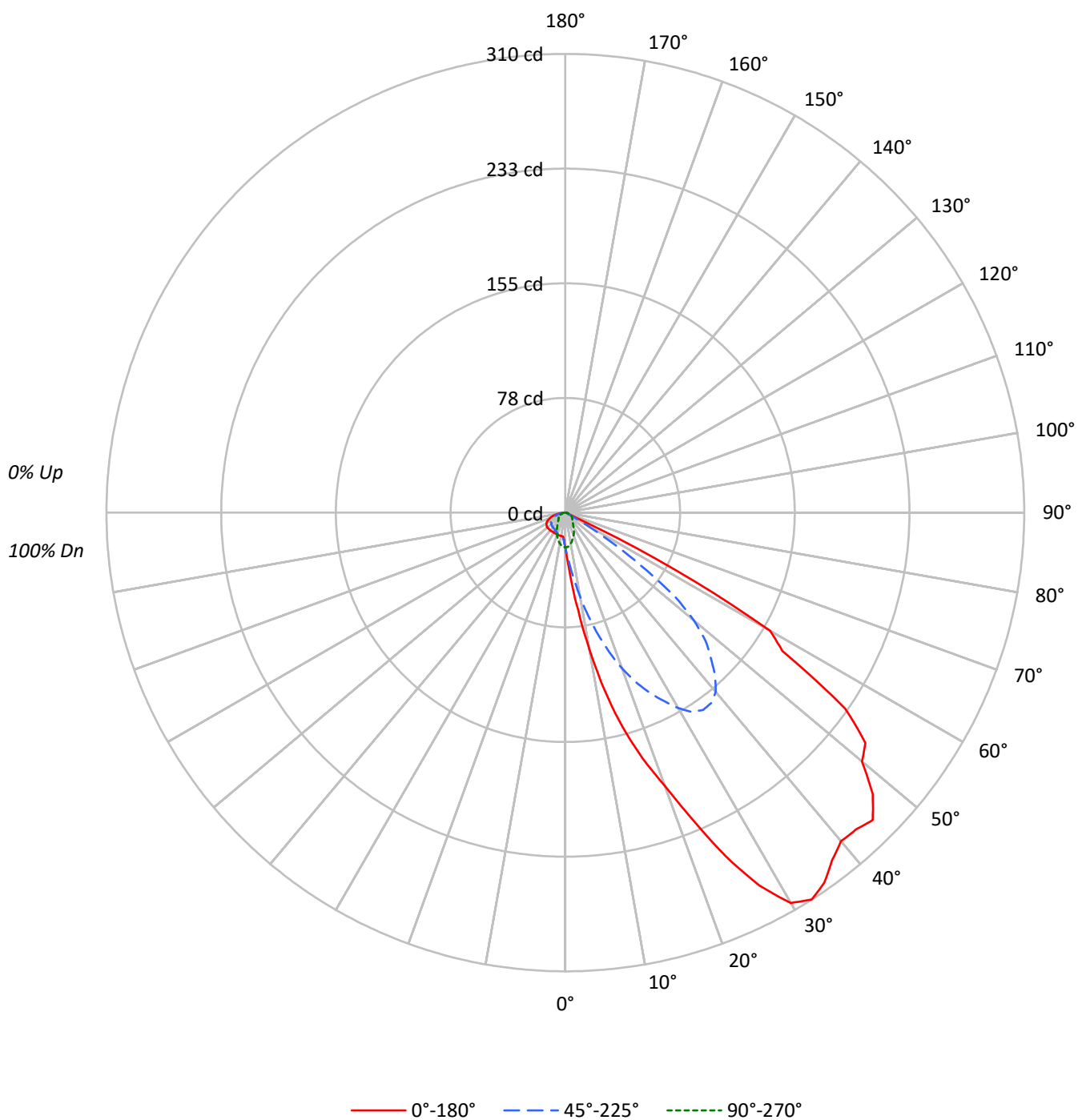
Lumens per Lamp: N/A
Luminaire Lumens: 236.0 lumens
Efficiency: N/A
Efficacy: 65.6 lumens/watt
Spacing Criteria (0/90/45): 3.38 / 0.84 / 2.07
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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
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°	4030	4030	4030	4030	4030
5°	7935	6189	3976	3008	2853
10°	16386	10091	3707	2746	2781
15°	26816	15155	3334	2746	2835
20°	35977	20527	2987	2749	2877
25°	48666	25483	2603	2736	2983
30°	60574	30327	2168	2724	3122
35°	64146	34186	1850	2796	3238
40°	65153	35544	1686	2900	3530
45°	71533	33855	1632	3093	3824
50°	70118	30357	1608	3269	4207
55°	69300	18616	1621	3543	4624
60°	54973	4443	1688	3754	5029
65°	3505	774	1671	3831	5420
70°	755	856	1611	3978	5740
75°	732	865	1397	3859	5856
80°	595	893	1488	3868	5554
85°	395	790	1778	3359	5533

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°

Vertical Angle: 52.5°

Luminance: 75508 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.9	1.2
10°-20°	14.7	6.2
20°-30°	34.1	14.5
30°-40°	53.0	22.5
40°-50°	60.5	25.6
50°-60°	50.9	21.6
60°-70°	14.8	6.3
70°-80°	3.8	1.6
80°-90°	1.3	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°	51.8	21.9
0°-40°	104.8	44.4
0°-60°	216.2	91.6
0°-90°	236.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	236.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	23	23	23	23	23	
5°	46	36	23	17	16	6
15°	150	85	19	15	16	44
25°	256	134	14	14	16	119
35°	305	163	9	13	15	190
45°	294	139	7	13	16	221
55°	231	62	5	12	15	194
65°	9	2	4	9	13	42
75°	1	1	2	6	9	1
85°	0	0	1	2	3	0
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°	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4
2.5°	31.5	31.3	31.3	31.1	30.9	30.7	30.0	29.8	28.5	26.0	23.4
5°	45.9	45.7	45.1	44.8	43.8	42.3	40.8	39.3	35.8	28.5	23.0
7.5°	66.5	66.9	66.5	64.1	62.6	60.3	55.8	52.6	45.7	31.1	22.1
10°	93.7	93.7	93.1	89.5	86.2	81.7	75.9	70.4	57.7	33.5	21.2
12.5°	123.4	124.0	120.8	117.8	112.0	106.4	98.5	90.1	71.4	35.4	20.2
15°	150.4	150.0	146.7	142.9	136.9	129.1	120.8	110.1	85.0	36.7	18.7
17.5°	174.4	173.6	170.8	166.5	159.2	150.6	139.9	128.3	98.9	37.8	17.6
20°	196.3	193.3	190.1	185.6	178.5	169.5	158.3	145.2	112.0	37.8	16.3
22.5°	224.0	221.0	216.5	209.6	200.2	189.0	175.9	161.1	123.6	36.9	15.0
25°	256.1	253.8	246.1	237.3	225.0	211.7	196.5	176.6	134.1	35.6	13.7
27.5°	284.2	281.7	274.0	261.1	246.3	230.4	214.3	193.9	143.3	33.3	12.2
30°	304.6	301.4	295.4	283.2	265.2	245.8	226.8	207.2	152.5	30.5	10.9
32.5°	310.0	309.6	305.1	296.0	280.0	258.7	236.0	214.7	159.8	26.8	9.9
35°	305.1	305.7	304.8	300.3	288.5	267.7	242.0	218.8	162.6	23.2	8.8
37.5°	296.0	296.9	298.4	299.1	291.5	273.1	245.4	220.5	162.0	19.5	8.2
40°	289.8	289.4	289.4	293.7	292.2	275.5	245.8	219.2	158.1	15.7	7.5
42.5°	290.5	285.8	282.5	289.4	291.5	274.4	243.1	215.8	149.7	12.0	6.9
45°	293.7	283.6	278.0	286.8	290.3	270.7	237.9	210.7	139.0	8.4	6.7
47.5°	281.7	275.0	274.2	286.6	287.9	264.5	230.0	202.5	128.7	5.8	6.2
50°	261.7	260.7	265.2	278.0	278.2	254.2	221.0	187.7	113.3	4.1	6.0
52.5°	255.5	256.1	260.2	266.9	260.7	236.8	204.7	175.3	93.7	3.2	5.8
55°	230.8	231.9	235.8	239.8	235.3	215.6	184.9	160.3	62.0	3.0	5.4
57.5°	173.8	176.6	183.6	187.3	187.7	175.7	167.5	138.2	35.0	3.0	5.1
60°	159.6	156.0	152.7	145.2	138.4	136.9	137.7	103.6	12.9	2.8	4.9
62.5°	83.5	81.7	86.7	89.9	90.7	95.5	89.2	54.7	2.8	2.8	4.5
65°	8.6	8.6	10.5	13.9	23.2	30.9	29.4	15.9	1.9	2.6	4.1
67.5°	2.6	2.6	2.6	3.0	3.9	3.9	3.2	2.4	1.9	2.4	3.6
70°	1.5	1.5	1.5	1.5	1.5	1.5	1.7	1.5	1.7	2.1	3.2
72.5°	1.3	1.3	1.3	1.3	1.5	1.5	1.5	1.5	1.5	1.9	2.8
75°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.3	1.3	1.5	2.1
77.5°	0.9	0.9	0.9	0.9	0.9	0.9	1.1	1.1	1.1	1.3	1.7
80°	0.6	0.6	0.6	0.6	0.6	0.9	0.9	0.9	0.9	1.1	1.5
82.5°	0.4	0.4	0.4	0.4	0.6	0.6	0.6	0.6	0.6	0.9	1.1
85°	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.6	0.9
87.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4	0.6
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°	23.4	23.4	23.4	23.4
2.5°	21.2	19.7	18.9	18.4
5°	19.3	17.4	16.7	16.5
7.5°	17.6	16.3	16.1	16.1
10°	16.5	15.7	15.9	15.9
12.5°	15.9	15.7	15.9	16.1
15°	15.2	15.4	15.9	15.9
17.5°	14.8	15.2	15.7	15.9
20°	14.2	15.0	15.7	15.7
22.5°	13.7	14.8	15.4	15.7
25°	13.3	14.4	15.2	15.7
27.5°	12.7	14.2	15.2	15.4
30°	12.0	13.7	15.0	15.7
32.5°	11.4	13.5	15.0	15.4
35°	10.9	13.3	15.0	15.4
37.5°	10.5	13.1	15.0	15.7
40°	10.3	12.9	14.8	15.7
42.5°	9.9	12.9	14.8	15.7
45°	9.7	12.7	14.8	15.7
47.5°	9.4	12.4	14.8	15.7
50°	9.0	12.2	14.6	15.7
52.5°	8.8	12.0	14.6	15.7
55°	8.4	11.8	14.4	15.4
57.5°	8.2	11.4	14.2	15.0
60°	7.7	10.9	13.7	14.6
62.5°	7.1	10.3	13.1	14.2
65°	6.4	9.4	12.4	13.3
67.5°	5.8	8.8	11.6	12.4
70°	5.1	7.9	10.5	11.4
72.5°	4.5	6.9	9.4	10.1
75°	3.9	5.8	7.9	8.8
77.5°	3.0	4.7	6.7	7.3
80°	2.4	3.9	5.1	5.6
82.5°	1.9	2.8	3.9	4.1
85°	1.3	1.7	2.4	2.8
87.5°	0.6	0.9	1.1	1.3
90°	0.0	0.0	0.0	0.0

(END OF REPORT)