

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: P1307582

Luminaire Tested: P3SQAS02R609030DE010 E3SQCA451MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1307582
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: P3SQAS02R609030DE010 E3SQCA451MB
Description: 3in Adjustable LED luminaire with, R60 optic, 3000K CCT AND, 90CRI , E3SQCA451MB TRIM
Light Source: -
Ballast/Driver: -

Summary

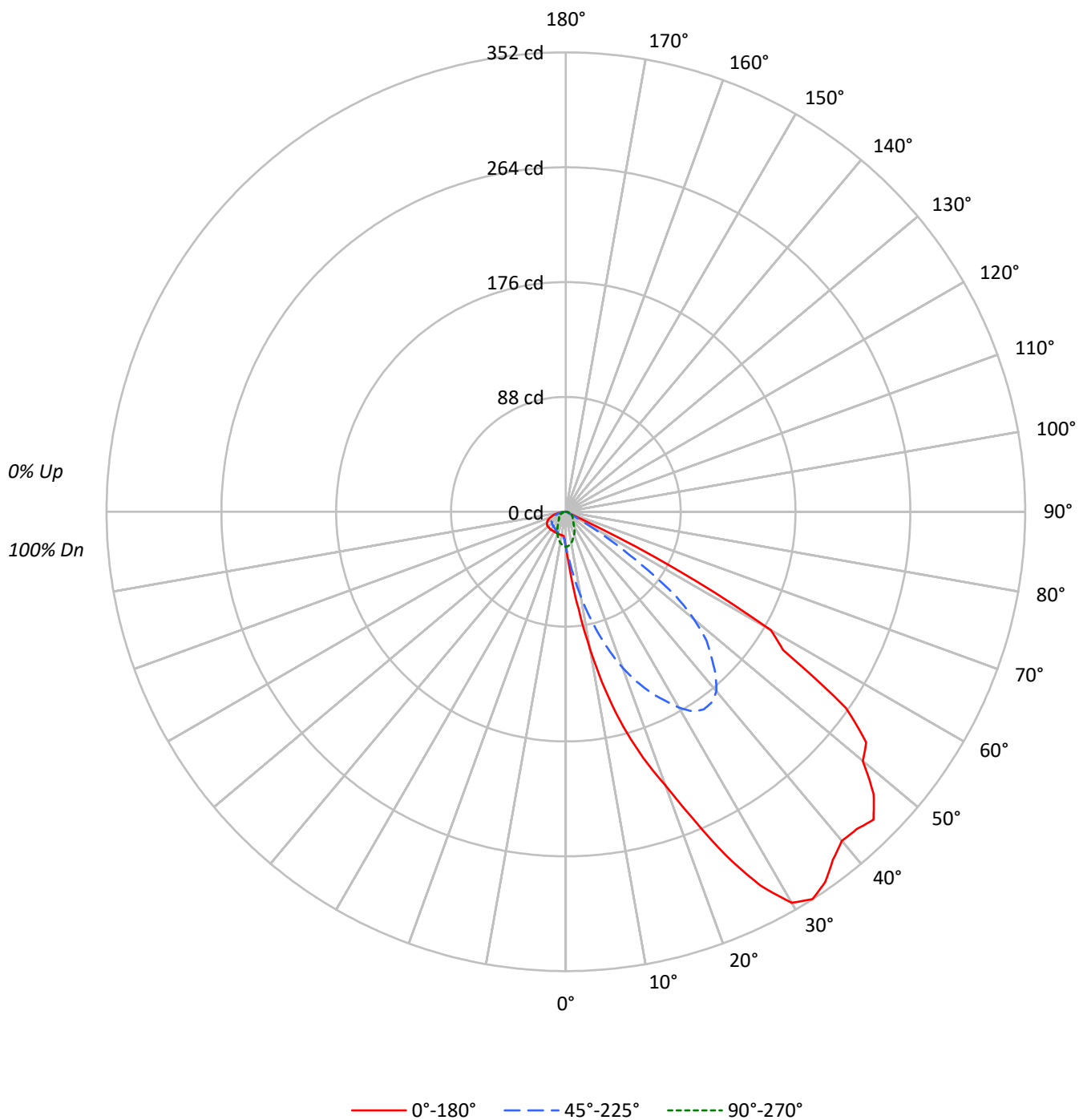
Lumens per Lamp: N/A
Luminaire Lumens: 268.0 lumens
Efficiency: N/A
Efficacy: 74.4 lumens/watt
Spacing Criteria (0/90/45): 3.38 / 0.84 / 2.07
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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°	4581	4581	4581	4581	4581
5°	9007	7036	4512	3406	3250
10°	18625	11455	4215	3113	3148
15°	30453	17206	3780	3120	3209
20°	40852	23313	3391	3134	3262
25°	55279	28941	2964	3097	3382
30°	68788	34444	2466	3102	3540
35°	72829	38832	2102	3175	3679
40°	73988	40355	1911	3282	4002
45°	81227	38458	1851	3507	4335
50°	79629	34456	1822	3724	4769
55°	78698	21138	1832	4023	5255
60°	62413	5029	1929	4271	5718
65°	3953	897	1875	4360	6153
70°	856	957	1863	4532	6496
75°	799	998	1597	4392	6654
80°	694	992	1686	4364	6248
85°	395	988	1976	3754	6323

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°

Vertical Angle: 52.5°

Luminance: 85749 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.3	1.2
10°-20°	16.7	6.2
20°-30°	38.8	14.5
30°-40°	60.2	22.5
40°-50°	68.6	25.6
50°-60°	57.8	21.6
60°-70°	16.8	6.3
70°-80°	4.3	1.6
80°-90°	1.5	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°	58.8	21.9
0°-40°	119.0	44.4
0°-60°	245.5	91.6
0°-90°	268.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	268.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	27	27	27	27	27	
5°	52	41	26	20	19	7
15°	171	96	21	18	18	49
25°	291	152	16	16	18	135
35°	346	185	10	15	18	215
45°	334	158	8	14	18	251
55°	262	70	6	13	18	221
65°	10	2	5	11	15	48
75°	1	2	2	7	10	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°	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6
2.5°	35.8	35.6	35.6	35.3	35.1	34.8	34.1	33.9	32.4	29.5	26.6
5°	52.1	51.9	51.2	50.9	49.7	48.0	46.3	44.6	40.7	32.4	26.1
7.5°	75.5	76.0	75.5	72.8	71.1	68.5	63.3	59.7	51.9	35.3	25.1
10°	106.5	106.5	105.7	101.6	97.9	92.8	86.2	79.9	65.5	38.0	24.1
12.5°	140.1	140.8	137.2	133.7	127.2	120.8	111.8	102.3	81.1	40.2	22.9
15°	170.8	170.3	166.6	162.2	155.4	146.7	137.2	125.0	96.5	41.7	21.2
17.5°	198.1	197.1	193.9	189.0	180.8	171.0	158.8	145.7	112.3	42.9	20.0
20°	222.9	219.5	215.8	210.7	202.7	192.5	179.8	164.9	127.2	42.9	18.5
22.5°	254.3	250.9	245.8	238.0	227.3	214.6	199.8	183.0	140.3	41.9	17.1
25°	290.9	288.2	279.4	269.4	255.6	240.4	223.2	200.5	152.3	40.4	15.6
27.5°	322.8	319.9	311.1	296.5	279.7	261.6	243.4	220.2	162.7	37.8	13.9
30°	345.9	342.3	335.5	321.6	301.1	279.2	257.5	235.3	173.2	34.6	12.4
32.5°	352.0	351.5	346.4	336.2	317.9	293.8	268.0	243.9	181.5	30.5	11.2
35°	346.4	347.2	346.2	341.1	327.7	304.0	274.8	248.5	184.7	26.3	10.0
37.5°	336.2	337.2	338.9	339.6	331.1	310.1	278.7	250.4	183.9	22.2	9.3
40°	329.1	328.6	328.6	333.5	331.8	312.8	279.2	249.0	179.5	17.8	8.5
42.5°	329.9	324.5	320.8	328.6	331.1	311.6	276.0	245.1	170.0	13.6	7.8
45°	333.5	322.1	315.7	325.7	329.6	307.4	270.2	239.2	157.9	9.5	7.6
47.5°	319.9	312.3	311.3	325.5	326.9	300.4	261.2	230.0	146.2	6.6	7.1
50°	297.2	296.0	301.1	315.7	316.0	288.7	250.9	213.2	128.6	4.6	6.8
52.5°	290.1	290.9	295.5	303.1	296.0	269.0	232.4	199.0	106.5	3.7	6.6
55°	262.1	263.3	267.7	272.4	267.2	244.8	210.0	182.0	70.4	3.4	6.1
57.5°	197.3	200.5	208.5	212.7	213.2	199.5	190.3	156.9	39.7	3.4	5.8
60°	181.2	177.1	173.5	164.9	157.1	155.4	156.4	117.7	14.6	3.2	5.6
62.5°	94.8	92.8	98.4	102.1	103.0	108.4	101.3	62.1	3.2	3.2	5.1
65°	9.7	9.7	11.9	15.8	26.3	35.1	33.4	18.0	2.2	2.9	4.6
67.5°	2.9	2.9	2.9	3.4	4.4	4.4	3.7	2.7	2.2	2.7	4.1
70°	1.7	1.7	1.7	1.7	1.7	1.7	1.9	1.7	1.9	2.4	3.7
72.5°	1.5	1.5	1.5	1.5	1.7	1.7	1.7	1.7	1.7	2.2	3.2
75°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.5	1.5	1.7	2.4
77.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.2	1.2	1.2	1.5	1.9
80°	0.7	0.7	0.7	0.7	0.7	1.0	1.0	1.0	1.0	1.2	1.7
82.5°	0.5	0.5	0.5	0.5	0.7	0.7	0.7	0.7	0.7	1.0	1.2
85°	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.7	1.0
87.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	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):

	112.5°	135°	157.5°	180°
0°	26.6	26.6	26.6	26.6
2.5°	24.1	22.4	21.4	21.0
5°	21.9	19.7	19.0	18.8
7.5°	20.0	18.5	18.3	18.3
10°	18.8	17.8	18.0	18.0
12.5°	18.0	17.8	18.0	18.3
15°	17.3	17.5	18.0	18.0
17.5°	16.8	17.3	17.8	18.0
20°	16.1	17.1	17.8	17.8
22.5°	15.6	16.8	17.5	17.8
25°	15.1	16.3	17.3	17.8
27.5°	14.4	16.1	17.3	17.5
30°	13.6	15.6	17.1	17.8
32.5°	12.9	15.3	17.1	17.5
35°	12.4	15.1	17.1	17.5
37.5°	11.9	14.9	17.1	17.8
40°	11.7	14.6	16.8	17.8
42.5°	11.2	14.6	16.8	17.8
45°	11.0	14.4	16.8	17.8
47.5°	10.7	14.1	16.8	17.8
50°	10.2	13.9	16.6	17.8
52.5°	10.0	13.6	16.6	17.8
55°	9.5	13.4	16.3	17.5
57.5°	9.3	12.9	16.1	17.1
60°	8.8	12.4	15.6	16.6
62.5°	8.0	11.7	14.9	16.1
65°	7.3	10.7	14.1	15.1
67.5°	6.6	10.0	13.2	14.1
70°	5.8	9.0	11.9	12.9
72.5°	5.1	7.8	10.7	11.4
75°	4.4	6.6	9.0	10.0
77.5°	3.4	5.4	7.6	8.3
80°	2.7	4.4	5.8	6.3
82.5°	2.2	3.2	4.4	4.6
85°	1.5	1.9	2.7	3.2
87.5°	0.7	1.0	1.2	1.5
90°	0.0	0.0	0.0	0.0

(END OF REPORT)