

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: P1309829

Luminaire Tested: P3SQAS02R709040DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1309829
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-57)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS02R709040DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R70 optic, 4000K CCT AND, 90CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

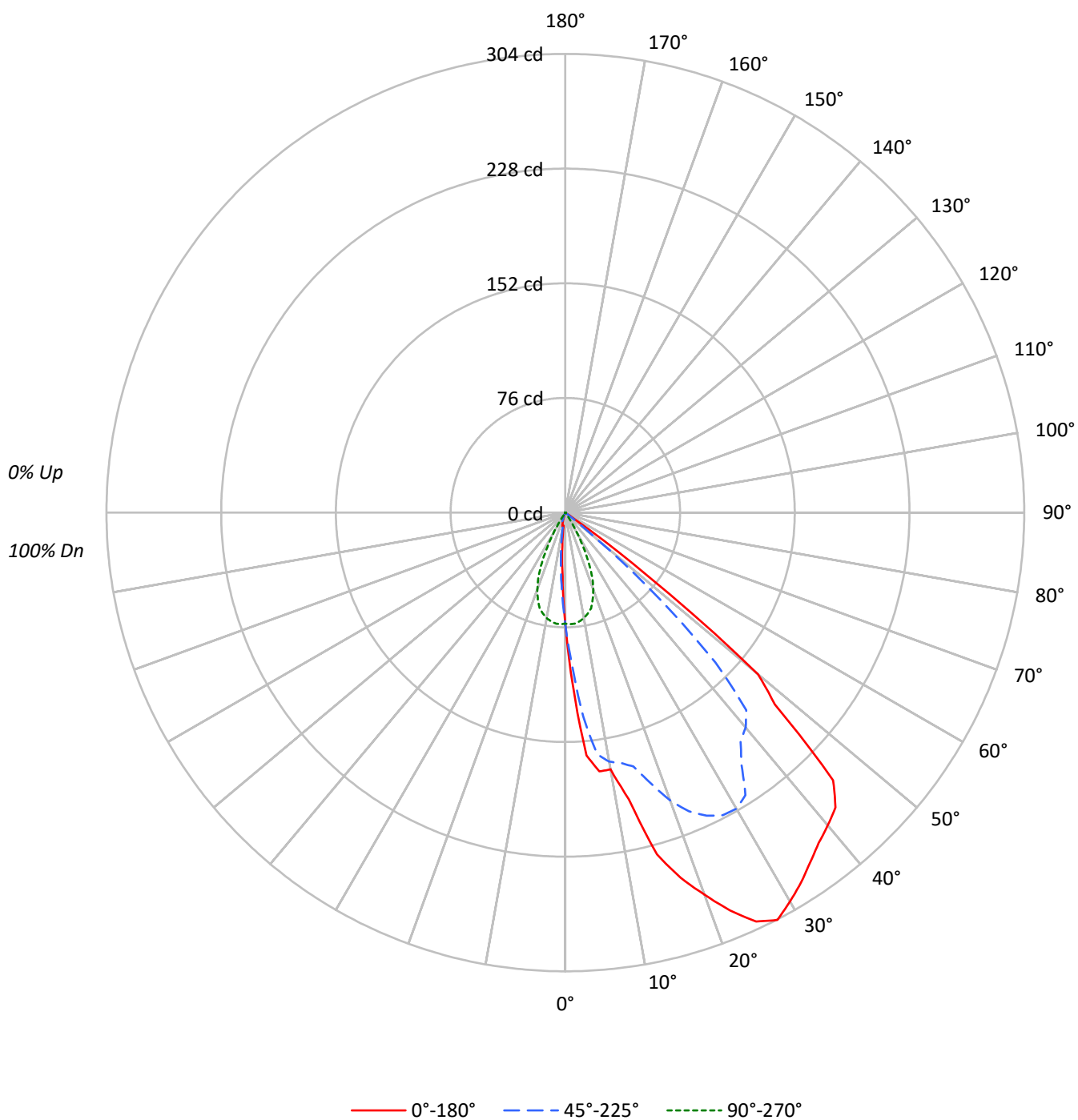
Lumens per Lamp: N/A
Luminaire Lumens: 198.0 lumens
Efficiency: N/A
Efficacy: 55.0 lumens/watt
Spacing Criteria (0/90/45): 2.08 / 0.83 / 1.48
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	112	109	106	103	110	107	104	102	103	101	99	99	97	96	96	94	93	91		
2	105	99	94	90	103	98	93	89	94	90	87	91	88	85	88	86	84	82		
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73		
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66		
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59		
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	55	53		
7	74	63	56	50	73	62	55	50	61	55	50	59	54	50	58	53	49	48		
8	69	58	51	46	68	57	50	45	56	50	45	55	49	45	54	49	45	43		
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	45	41	39		
10	61	49	42	38	60	49	42	38	48	42	37	47	41	37	46	41	37	36		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	12658	12658	12658	12658	12658
5°	27920	23425	12759	5791	3821
10°	30202	29310	12416	1609	1661
15°	41793	31042	11714	1640	1195
20°	49374	37187	9934	971	367
25°	56818	42110	7012	152	0
30°	59182	45063	3222	0	0
35°	59457	42701	168	0	0
40°	60814	41772	0	0	0
45°	61109	34220	0	0	0
50°	44610	7100	0	0	0
55°	2522	0	0	0	0
60°	0	103	103	0	0
65°	0	0	122	0	0
70°	0	151	151	0	0
75°	0	200	200	0	0
80°	0	298	298	298	0
85°	0	593	593	593	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 5°

Vertical Angle: 45°

Luminance: 62278 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.0	4.1
10°-20°	26.8	13.6
20°-30°	48.3	24.4
30°-40°	58.7	29.6
40°-50°	45.3	22.9
50°-60°	10.5	5.3
60°-70°	0.1	0.0
70°-80°	0.2	0.1
80°-90°	0.2	0.1
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°	83.1	42.0
0°-40°	141.8	71.6
0°-60°	197.6	99.8
0°-90°	198.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	198.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	74	74	74	74	74	
5°	162	136	74	34	22	15
15°	234	174	66	9	7	66
25°	299	222	37	1	0	136
35°	283	203	1	0	0	178
45°	251	140	0	0	0	177
55°	8	0	0	0	0	34
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5
2.5°	114.6	114.6	115.1	114.8	112.3	111.2	107.6	105.6	105.1	100.6	98.9
5°	161.5	161.8	160.4	160.1	157.3	155.4	152.3	147.5	142.8	135.5	129.1
7.5°	173.0	172.7	172.4	172.4	171.8	170.7	169.3	167.9	166.0	161.5	156.5
10°	172.7	172.7	172.4	172.4	172.1	172.4	172.1	171.3	170.4	167.6	164.9
12.5°	194.5	192.8	190.6	187.2	181.6	177.4	172.7	171.3	170.7	169.9	168.2
15°	234.4	233.0	228.3	222.4	216.8	207.3	199.8	189.4	181.3	174.1	170.4
17.5°	253.7	254.5	249.2	245.6	240.3	232.7	223.8	213.2	201.7	188.0	177.1
20°	269.4	270.2	265.7	262.1	255.9	248.1	240.3	228.8	217.9	202.9	188.6
22.5°	285.3	285.8	281.6	276.3	269.4	261.2	251.2	239.5	227.7	214.3	199.2
25°	299.0	298.4	291.4	283.9	277.2	268.5	258.7	247.3	236.1	221.6	207.3
27.5°	304.3	304.0	296.2	288.9	281.1	269.4	260.7	250.6	238.9	226.0	211.5
30°	297.6	302.0	297.0	291.7	282.2	270.5	262.1	250.1	239.2	226.6	210.1
32.5°	290.6	296.2	294.5	292.0	280.8	271.6	260.7	249.5	236.7	222.1	197.0
35°	282.8	288.6	288.9	286.1	276.1	266.8	256.8	245.0	230.5	203.1	184.7
37.5°	275.8	281.4	283.0	277.2	269.4	257.1	247.8	235.5	209.3	190.8	181.3
40°	270.5	274.7	277.2	268.0	260.1	248.1	237.5	216.0	192.2	185.8	172.4
42.5°	264.9	268.8	269.9	259.9	247.8	236.4	221.0	193.9	186.9	177.4	141.4
45°	250.9	255.7	252.9	243.1	234.1	222.1	199.2	187.5	179.9	140.5	86.9
47.5°	188.3	193.6	201.2	204.0	207.0	198.4	185.8	181.6	147.8	85.2	27.1
50°	166.5	165.7	165.7	167.1	169.6	172.4	176.0	153.1	88.9	26.5	0.0
52.5°	67.9	71.2	87.7	102.5	119.6	136.6	141.9	93.9	34.6	0.6	0.0
55°	8.4	8.4	11.7	20.1	33.2	53.6	60.4	30.2	2.5	0.0	0.0
57.5°	0.0	0.0	0.0	0.3	2.2	6.1	4.2	1.1	0.3	0.3	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3
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):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5
2.5°	96.1	92.8	88.0	74.0	62.0	51.4	45.3	42.2
5°	122.9	114.8	103.9	73.8	50.3	33.5	25.1	22.1
7.5°	148.6	139.4	121.0	72.6	38.6	19.6	10.9	8.7
10°	159.8	153.1	136.6	71.0	27.9	9.2	9.2	9.5
12.5°	164.3	159.3	145.9	68.5	18.4	8.9	9.5	8.9
15°	167.4	162.6	150.3	65.7	10.6	9.2	7.5	6.7
17.5°	169.0	163.5	151.7	60.4	7.0	7.8	4.7	3.9
20°	174.4	165.4	152.8	54.2	6.7	5.3	2.5	2.0
22.5°	183.3	169.3	153.1	46.7	5.3	3.1	0.8	0.0
25°	191.4	174.6	154.0	36.9	1.7	0.8	0.0	0.0
27.5°	195.3	176.3	153.7	26.0	0.0	0.0	0.0	0.0
30°	190.6	172.1	151.2	16.2	0.0	0.0	0.0	0.0
32.5°	179.4	169.0	143.3	7.0	0.0	0.0	0.0	0.0
35°	175.7	162.3	125.5	0.8	0.0	0.0	0.0	0.0
37.5°	167.6	143.1	92.2	0.0	0.0	0.0	0.0	0.0
40°	144.2	103.4	43.9	0.0	0.0	0.0	0.0	0.0
42.5°	95.3	44.1	2.5	0.0	0.0	0.0	0.0	0.0
45°	33.5	2.8	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.3	0.3	0.0	0.0	0.0	0.0
67.5°	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0
70°	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0
72.5°	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0
75°	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0
77.5°	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0
80°	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0
82.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0
85°	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0
87.5°	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)