

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: P1306435

Luminaire Tested: P3SQAS02R459027DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1306435
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-58)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS02R459027DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R45 optic, 2700K CCT AND, 90CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

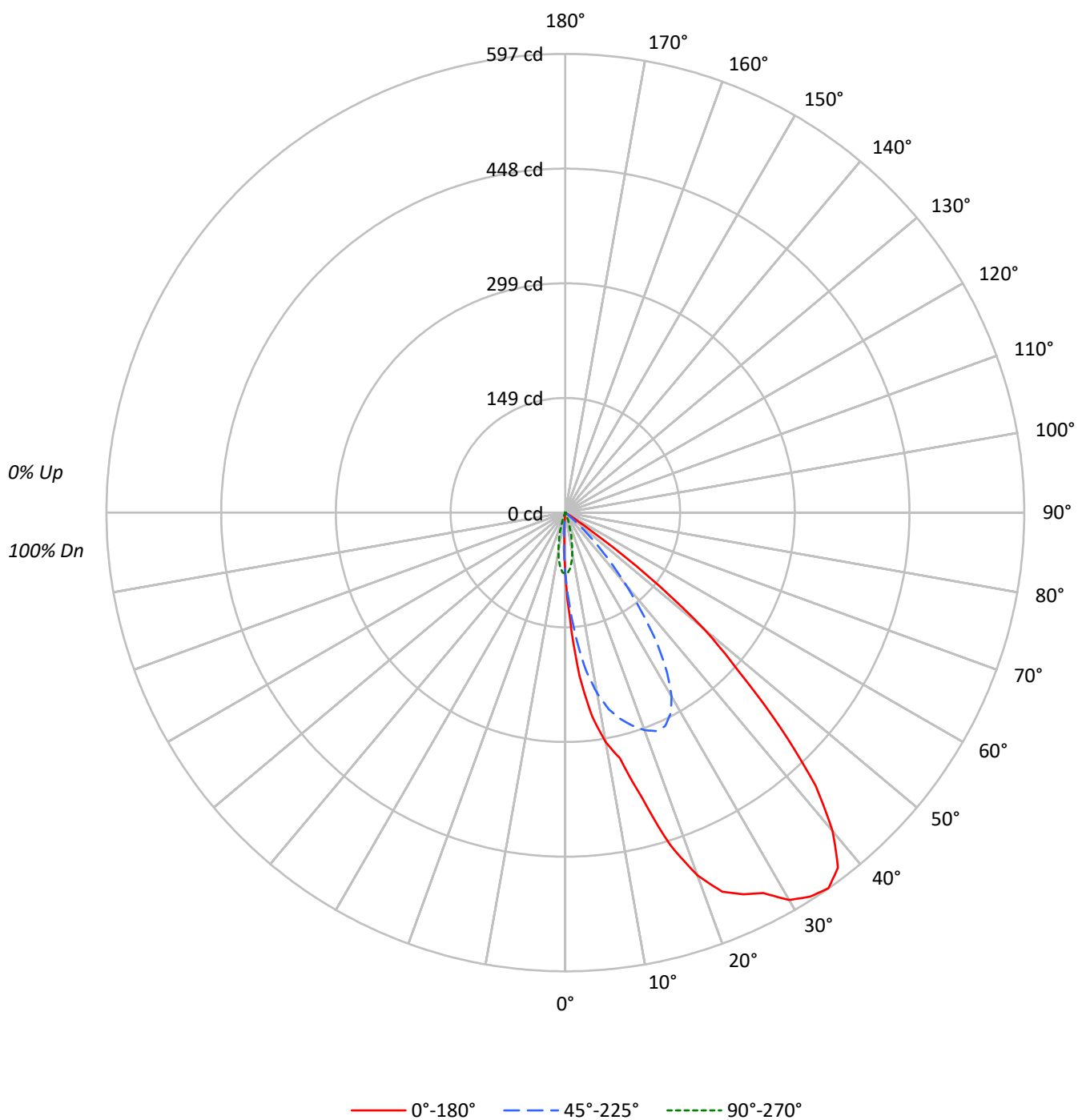
Lumens per Lamp: N/A
Luminaire Lumens: 253.0 lumens
Efficiency: N/A
Efficacy: 70.3 lumens/watt
Spacing Criteria (0/90/45): 2.27 / 0.42 / 1.26
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91		
2	105	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82		
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	74		
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	67		
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60		
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54		
7	75	64	57	52	74	63	56	51	62	56	51	61	55	51	59	54	51	49		
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44		
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	40		
10	62	50	43	39	61	50	43	39	49	43	39	48	42	38	47	42	38	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	13537	13537	13537	13537	13537
5°	36945	28422	12517	2507	951
10°	53058	41709	9059	245	192
15°	68306	49603	4814	89	0
20°	92059	55184	1833	0	0
25°	104135	58300	475	0	0
30°	115740	54966	40	0	0
35°	125474	43836	0	0	0
40°	121606	27518	0	0	0
45°	96401	13104	0	0	0
50°	63098	1634	0	0	0
55°	10839	0	0	0	0
60°	0	0	69	0	0
65°	0	82	82	0	0
70°	0	101	252	0	0
75°	0	133	333	0	0
80°	0	198	496	198	0
85°	0	395	988	395	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 96401 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.4	3.7
10°-20°	36.0	14.2
20°-30°	67.5	26.7
30°-40°	78.8	31.1
40°-50°	51.4	20.3
50°-60°	9.5	3.8
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°	112.9	44.6
0°-40°	191.6	75.7
0°-60°	252.5	99.8
0°-90°	253.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	253.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	79	79	79	79	79	
5°	214	164	72	14	6	23
15°	383	278	27	0	0	114
25°	548	307	2	0	0	253
35°	597	208	0	0	0	366
45°	396	54	0	0	0	301
55°	36	0	0	0	0	63
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°	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6
2.5°	138.5	139.7	137.4	136.5	133.5	134.2	129.2	127.2	124.0	118.8	116.3
5°	213.7	211.7	209.8	206.0	203.7	197.6	190.8	183.0	173.7	164.4	153.7
7.5°	267.3	265.7	265.0	261.8	257.3	250.9	242.1	232.3	220.3	207.8	191.7
10°	303.4	301.8	299.1	295.9	292.3	287.0	278.4	267.7	254.6	238.5	219.6
12.5°	327.0	326.8	322.2	318.6	314.1	309.5	300.7	292.0	279.1	262.5	241.2
15°	383.1	379.5	373.6	363.4	350.6	338.8	324.5	310.9	296.8	278.2	254.3
17.5°	453.1	449.0	439.0	426.0	405.6	383.1	358.6	337.0	315.9	290.7	262.5
20°	502.3	500.7	492.3	477.4	455.6	425.8	393.6	363.1	333.4	301.1	266.4
22.5°	533.9	533.0	529.6	519.4	497.1	463.7	422.2	381.3	345.4	307.7	265.2
25°	548.0	549.1	549.6	544.6	526.6	492.6	443.3	395.1	352.2	306.8	256.6
27.5°	558.0	558.0	559.8	557.5	539.4	503.5	451.5	399.9	350.0	295.7	238.5
30°	582.0	581.6	582.7	576.6	551.4	506.9	447.8	392.2	337.0	276.4	212.3
32.5°	592.5	592.9	592.7	583.0	553.7	504.6	439.0	377.4	313.2	246.2	177.8
35°	596.8	594.8	586.4	564.1	527.1	474.4	414.0	352.5	279.8	208.5	140.3
37.5°	582.5	576.6	558.0	527.5	482.4	431.7	372.7	307.7	235.5	163.5	105.6
40°	540.9	533.2	509.8	473.0	431.7	386.1	323.8	255.3	184.2	122.4	74.0
42.5°	482.1	473.3	448.1	416.0	378.3	330.4	268.4	199.8	134.9	84.5	47.0
45°	395.8	390.8	376.3	349.3	312.3	262.5	205.7	145.8	93.3	53.8	24.1
47.5°	306.1	299.8	289.3	270.7	239.8	192.6	144.0	99.0	60.0	26.6	5.0
50°	235.5	228.0	215.3	194.6	162.4	128.5	93.3	61.8	30.4	6.1	0.2
52.5°	135.6	137.2	131.0	117.9	99.9	77.0	54.0	31.1	6.8	0.2	0.0
55°	36.1	39.1	38.2	41.1	36.1	30.4	22.5	5.9	0.5	0.0	0.0
57.5°	0.0	0.0	0.2	0.5	1.4	2.0	0.7	0.2	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	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	0.2	0.2
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2
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°	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6
2.5°	110.6	105.8	99.9	78.1	58.8	42.2	32.9	30.4
5°	143.5	131.9	117.0	72.4	36.3	14.5	6.6	5.5
7.5°	174.6	157.6	130.6	63.4	18.4	3.6	1.8	1.6
10°	198.7	175.8	140.6	51.8	6.8	1.4	1.1	1.1
12.5°	215.3	187.4	144.2	39.3	2.5	0.7	0.7	0.5
15°	224.8	191.9	140.8	27.0	0.9	0.5	0.0	0.0
17.5°	227.8	190.1	131.7	17.0	0.2	0.0	0.0	0.0
20°	225.3	181.2	117.4	10.0	0.0	0.0	0.0	0.0
22.5°	217.1	167.4	100.1	5.5	0.0	0.0	0.0	0.0
25°	201.9	147.8	79.9	2.5	0.0	0.0	0.0	0.0
27.5°	177.1	122.6	60.2	0.9	0.0	0.0	0.0	0.0
30°	149.0	95.6	42.7	0.2	0.0	0.0	0.0	0.0
32.5°	116.3	70.4	27.5	0.0	0.0	0.0	0.0	0.0
35°	87.4	49.3	16.4	0.0	0.0	0.0	0.0	0.0
37.5°	60.9	31.1	8.6	0.0	0.0	0.0	0.0	0.0
40°	37.9	16.8	3.0	0.0	0.0	0.0	0.0	0.0
42.5°	21.1	5.9	0.2	0.0	0.0	0.0	0.0	0.0
45°	5.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	0.2	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	0.2	0.0	0.0	0.0	0.0
60°	0.0	0.2	0.2	0.2	0.0	0.0	0.0	0.0
62.5°	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0
65°	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0
67.5°	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0
70°	0.2	0.2	0.2	0.5	0.2	0.0	0.0	0.0
72.5°	0.2	0.2	0.5	0.5	0.2	0.0	0.0	0.0
75°	0.2	0.2	0.5	0.5	0.2	0.0	0.0	0.0
77.5°	0.2	0.5	0.5	0.5	0.2	0.2	0.0	0.0
80°	0.2	0.5	0.5	0.5	0.5	0.2	0.0	0.0
82.5°	0.2	0.5	0.5	0.5	0.5	0.2	0.0	0.0
85°	0.2	0.5	0.5	0.5	0.2	0.2	0.0	0.0
87.5°	0.2	0.5	0.5	0.5	0.5	0.2	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)