

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: P1311984

Luminaire Tested: P3SQAS02R459727DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1311984
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: P3SQAS02R459727DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R45 optic, 2700K CCT AND, 97CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

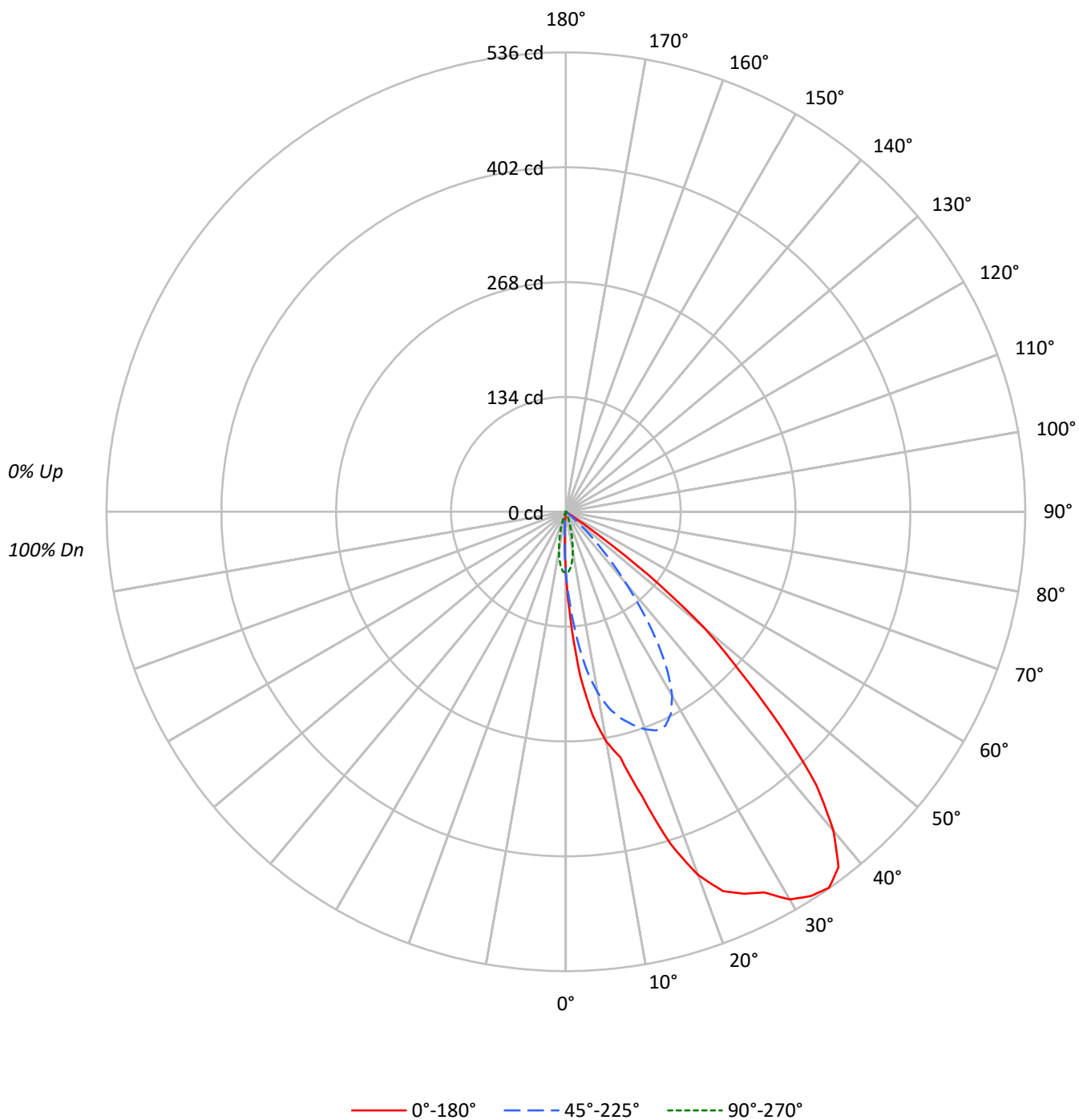
Lumens per Lamp: N/A
Luminaire Lumens: 227.0 lumens
Efficiency: N/A
Efficacy: 63.1 lumens/watt
Spacing Criteria (0/90/45): 2.27 / 0.42 / 1.27
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
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°	12142	12142	12142	12142	12142
5°	33141	25500	11237	2247	847
10°	47602	37407	8132	210	175
15°	61281	44503	4315	71	0
20°	82602	49521	1649	0	0
25°	93436	52314	418	0	0
30°	103848	49319	40	0	0
35°	112586	39316	0	0	0
40°	109128	24685	0	0	0
45°	86488	11764	0	0	0
50°	56614	1474	0	0	0
55°	9728	0	0	0	0
60°	0	0	69	0	0
65°	0	82	82	0	0
70°	0	101	201	0	0
75°	0	133	266	0	0
80°	0	198	397	198	0
85°	0	395	790	395	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 86488 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.4	3.7
10°-20°	32.3	14.2
20°-30°	60.5	26.7
30°-40°	70.7	31.1
40°-50°	46.1	20.3
50°-60°	8.6	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°	101.3	44.6
0°-40°	171.9	75.7
0°-60°	226.6	99.8
0°-90°	227.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	227.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	70	70	70	70	70	
5°	192	148	65	13	5	21
15°	344	250	24	0	0	102
25°	492	275	2	0	0	227
35°	536	187	0	0	0	328
45°	355	48	0	0	0	270
55°	32	0	0	0	0	56
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°	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5
2.5°	124.3	125.3	123.3	122.5	119.8	120.4	115.9	114.1	111.3	106.6	104.3
5°	191.7	189.9	188.3	184.8	182.8	177.3	171.2	164.2	155.9	147.5	137.9
7.5°	239.8	238.4	237.8	234.9	230.9	225.2	217.2	208.4	197.6	186.4	172.0
10°	272.2	270.8	268.3	265.5	262.2	257.5	249.8	240.2	228.4	213.9	197.0
12.5°	293.4	293.2	289.1	285.9	281.8	277.7	269.8	262.0	250.4	235.5	216.4
15°	343.7	340.5	335.2	326.0	314.6	304.0	291.2	278.9	266.3	249.6	228.2
17.5°	406.5	402.8	393.9	382.2	363.9	343.7	321.7	302.4	283.4	260.8	235.5
20°	450.7	449.3	441.7	428.3	408.7	382.0	353.1	325.8	299.1	270.2	239.0
22.5°	479.0	478.2	475.2	466.0	446.0	416.1	378.8	342.1	309.9	276.1	238.0
25°	491.7	492.7	493.1	488.6	472.5	442.0	397.7	354.5	316.0	275.3	230.2
27.5°	500.6	500.6	502.3	500.2	483.9	451.7	405.1	358.8	314.0	265.3	213.9
30°	522.2	521.8	522.8	517.3	494.7	454.8	401.8	351.9	302.4	248.0	190.5
32.5°	531.6	532.0	531.8	523.0	496.8	452.7	393.9	338.6	281.0	220.9	159.5
35°	535.5	533.6	526.1	506.1	472.9	425.6	371.5	316.2	251.0	187.0	125.9
37.5°	522.6	517.3	500.6	473.3	432.8	387.3	334.4	276.1	211.3	146.7	94.7
40°	485.4	478.4	457.4	424.4	387.3	346.4	290.6	229.0	165.2	109.8	66.4
42.5°	432.6	424.6	402.0	373.3	339.5	296.5	240.8	179.3	121.0	75.8	42.2
45°	355.1	350.7	337.6	313.4	280.2	235.5	184.6	130.8	83.7	48.3	21.6
47.5°	274.7	269.0	259.6	242.9	215.2	172.8	129.2	88.8	53.8	23.8	4.5
50°	211.3	204.6	193.2	174.6	145.7	115.3	83.7	55.4	27.3	5.5	0.2
52.5°	121.6	123.1	117.6	105.8	89.7	69.1	48.5	27.9	6.1	0.2	0.0
55°	32.4	35.0	34.2	36.9	32.4	27.3	20.2	5.3	0.4	0.0	0.0
57.5°	0.0	0.0	0.2	0.4	1.2	1.8	0.6	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°	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5
2.5°	99.2	95.0	89.7	70.1	52.8	37.9	29.5	27.3
5°	128.8	118.4	104.9	65.0	32.6	13.0	5.9	4.9
7.5°	156.7	141.4	117.2	56.8	16.5	3.3	1.6	1.4
10°	178.3	157.7	126.1	46.5	6.1	1.2	1.0	1.0
12.5°	193.2	168.1	129.4	35.3	2.2	0.6	0.6	0.4
15°	201.7	172.2	126.3	24.2	0.8	0.4	0.0	0.0
17.5°	204.4	170.5	118.2	15.3	0.2	0.0	0.0	0.0
20°	202.1	162.6	105.3	9.0	0.0	0.0	0.0	0.0
22.5°	194.8	150.2	89.9	4.9	0.0	0.0	0.0	0.0
25°	181.1	132.6	71.7	2.2	0.0	0.0	0.0	0.0
27.5°	158.9	110.0	54.0	0.8	0.0	0.0	0.0	0.0
30°	133.7	85.8	38.3	0.2	0.0	0.0	0.0	0.0
32.5°	104.3	63.2	24.7	0.0	0.0	0.0	0.0	0.0
35°	78.4	44.2	14.7	0.0	0.0	0.0	0.0	0.0
37.5°	54.6	27.9	7.7	0.0	0.0	0.0	0.0	0.0
40°	34.0	15.1	2.6	0.0	0.0	0.0	0.0	0.0
42.5°	18.9	5.3	0.2	0.0	0.0	0.0	0.0	0.0
45°	4.5	0.4	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	0.4	0.2	0.0	0.0	0.0
72.5°	0.2	0.2	0.4	0.4	0.2	0.0	0.0	0.0
75°	0.2	0.2	0.4	0.4	0.2	0.0	0.0	0.0
77.5°	0.2	0.4	0.4	0.4	0.2	0.2	0.0	0.0
80°	0.2	0.4	0.4	0.4	0.4	0.2	0.0	0.0
82.5°	0.2	0.4	0.4	0.4	0.4	0.2	0.0	0.0
85°	0.2	0.4	0.4	0.4	0.2	0.2	0.0	0.0
87.5°	0.2	0.4	0.4	0.4	0.4	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)