

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: P1305463

Luminaire Tested: P3SQAS02R459024DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1305463
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: P3SQAS02R459024DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R45 optic, 2400K CCT AND, 90CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

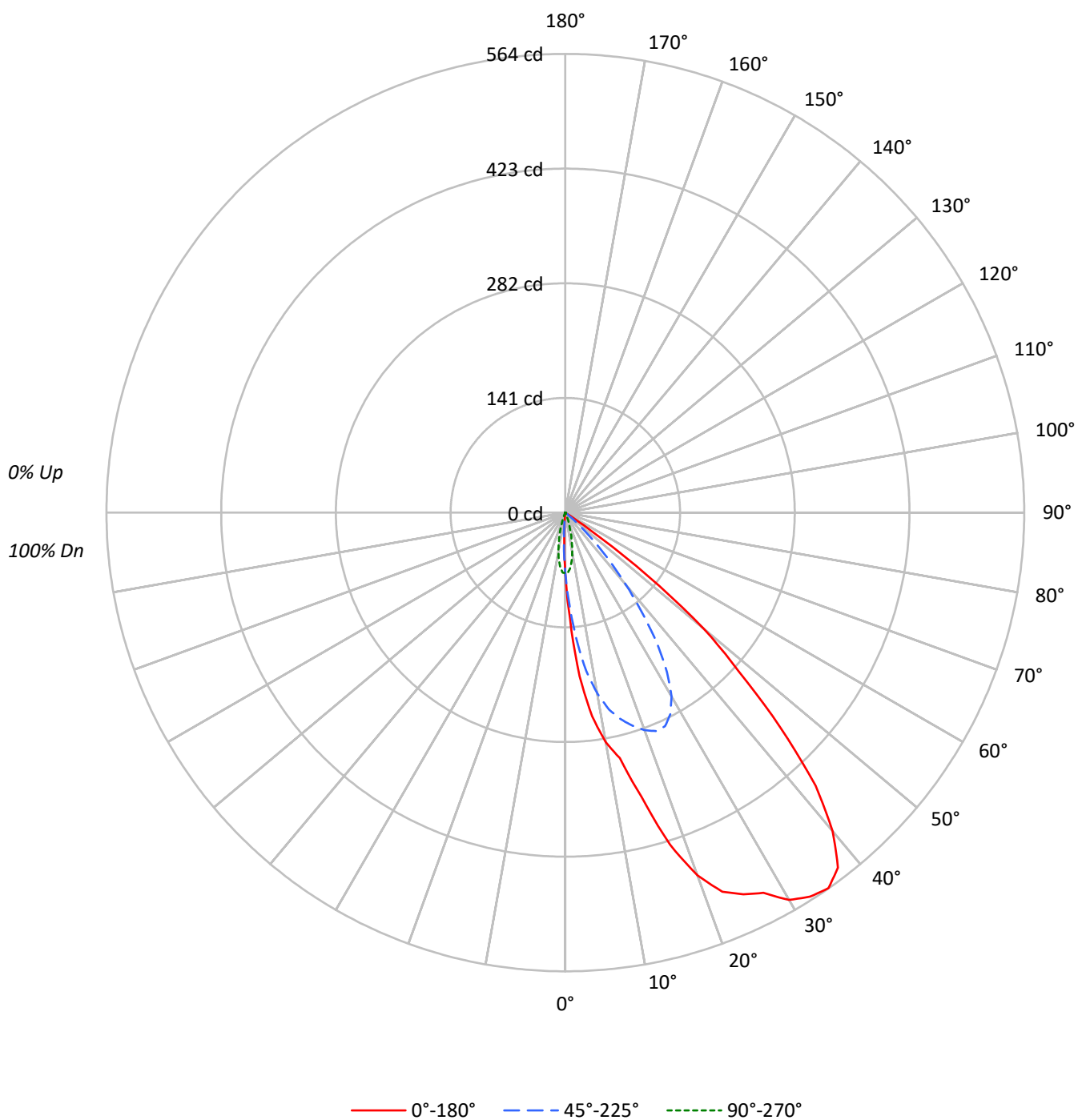
Lumens per Lamp: N/A
Luminaire Lumens: 239.0 lumens
Efficiency: N/A
Efficacy: 66.4 lumens/watt
Spacing Criteria (0/90/45): 2.27 / 0.42 / 1.27
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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
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	106	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	78	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°	12779	12779	12779	12779	12779
5°	34905	26848	11825	2368	882
10°	50120	39400	8552	227	192
15°	64526	46857	4547	71	0
20°	86964	52142	1723	0	0
25°	98377	55070	456	0	0
30°	109336	51924	40	0	0
35°	118536	41397	0	0	0
40°	114883	25989	0	0	0
45°	91067	12373	0	0	0
50°	59615	1554	0	0	0
55°	10239	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: 91067 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.8	3.7
10°-20°	34.0	14.2
20°-30°	63.7	26.7
30°-40°	74.4	31.1
40°-50°	48.5	20.3
50°-60°	9.0	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°	106.6	44.6
0°-40°	181.0	75.8
0°-60°	238.5	99.8
0°-90°	239.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	239.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	74	74	74	74	74	
5°	202	155	68	14	5	22
15°	362	263	26	0	0	108
25°	518	290	2	0	0	239
35°	564	197	0	0	0	346
45°	374	51	0	0	0	284
55°	34	0	0	0	0	59
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°	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
2.5°	130.9	131.9	129.8	128.9	126.1	126.8	122.1	120.1	117.1	112.2	109.8
5°	201.9	199.9	198.2	194.6	192.4	186.6	180.2	172.9	164.1	155.3	145.2
7.5°	252.5	251.0	250.4	247.4	243.1	237.1	228.7	219.5	208.1	196.3	181.1
10°	286.6	285.1	282.5	279.5	276.1	271.2	263.0	252.9	240.5	225.3	207.4
12.5°	308.9	308.7	304.4	301.0	296.7	292.4	284.0	275.9	263.7	248.0	227.8
15°	361.9	358.5	352.9	343.2	331.2	320.1	306.6	293.7	280.4	262.8	240.3
17.5°	428.0	424.1	414.7	402.5	383.1	361.9	338.7	318.4	298.4	274.6	248.0
20°	474.5	473.0	465.1	450.9	430.3	402.2	371.8	343.0	314.9	284.5	251.6
22.5°	504.4	503.5	500.3	490.6	469.6	438.1	398.8	360.2	326.3	290.7	250.6
25°	517.7	518.7	519.2	514.4	497.5	465.3	418.8	373.3	332.7	289.8	242.4
27.5°	527.1	527.1	528.8	526.7	509.5	475.6	426.5	377.8	330.6	279.3	225.3
30°	549.8	549.4	550.5	544.7	520.9	478.8	423.1	370.5	318.4	261.1	200.6
32.5°	559.7	560.1	559.9	550.7	523.0	476.7	414.7	356.5	295.8	232.5	168.0
35°	563.8	561.9	553.9	532.9	497.9	448.2	391.1	332.9	264.3	196.9	132.6
37.5°	550.3	544.7	527.1	498.4	455.7	407.8	352.0	290.7	222.5	154.5	99.8
40°	511.0	503.7	481.6	446.9	407.8	364.7	305.9	241.1	174.0	115.6	69.9
42.5°	455.4	447.1	423.3	393.0	357.4	312.1	253.6	188.8	127.4	79.8	44.4
45°	373.9	369.2	355.5	329.9	295.0	248.0	194.4	137.7	88.2	50.8	22.7
47.5°	289.2	283.2	273.3	255.7	226.5	181.9	136.0	93.5	56.6	25.1	4.7
50°	222.5	215.4	203.4	183.9	153.4	121.4	88.2	58.4	28.7	5.8	0.2
52.5°	128.1	129.6	123.8	111.3	94.4	72.7	51.1	29.4	6.4	0.2	0.0
55°	34.1	36.9	36.0	38.8	34.1	28.7	21.2	5.6	0.4	0.0	0.0
57.5°	0.0	0.0	0.2	0.4	1.3	1.9	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°	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
2.5°	104.5	100.0	94.4	73.8	55.6	39.9	31.1	28.7
5°	135.6	124.6	110.5	68.4	34.3	13.7	6.2	5.1
7.5°	165.0	148.9	123.4	59.9	17.4	3.4	1.7	1.5
10°	187.7	166.0	132.8	48.9	6.4	1.3	1.1	1.1
12.5°	203.4	177.0	136.2	37.1	2.4	0.6	0.6	0.4
15°	212.4	181.3	133.0	25.5	0.9	0.4	0.0	0.0
17.5°	215.2	179.6	124.4	16.1	0.2	0.0	0.0	0.0
20°	212.8	171.2	110.9	9.4	0.0	0.0	0.0	0.0
22.5°	205.1	158.1	94.6	5.1	0.0	0.0	0.0	0.0
25°	190.7	139.7	75.5	2.4	0.0	0.0	0.0	0.0
27.5°	167.3	115.8	56.9	0.9	0.0	0.0	0.0	0.0
30°	140.7	90.3	40.3	0.2	0.0	0.0	0.0	0.0
32.5°	109.8	66.5	26.0	0.0	0.0	0.0	0.0	0.0
35°	82.6	46.6	15.4	0.0	0.0	0.0	0.0	0.0
37.5°	57.5	29.4	8.2	0.0	0.0	0.0	0.0	0.0
40°	35.8	15.9	2.8	0.0	0.0	0.0	0.0	0.0
42.5°	20.0	5.6	0.2	0.0	0.0	0.0	0.0	0.0
45°	4.7	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)