

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: P1315781

Luminaire Tested: P3SQAS02R259827DE010 E3SQCA301MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1315781
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-49)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS02R259827DE010 E3SQCA301MB
Description: 3in Adjustable LED luminaire with, R25 optic, 2700K CCT AND, 98CRI , E3SQCA301MB TRIM
Light Source: -
Ballast/Driver: -

Summary

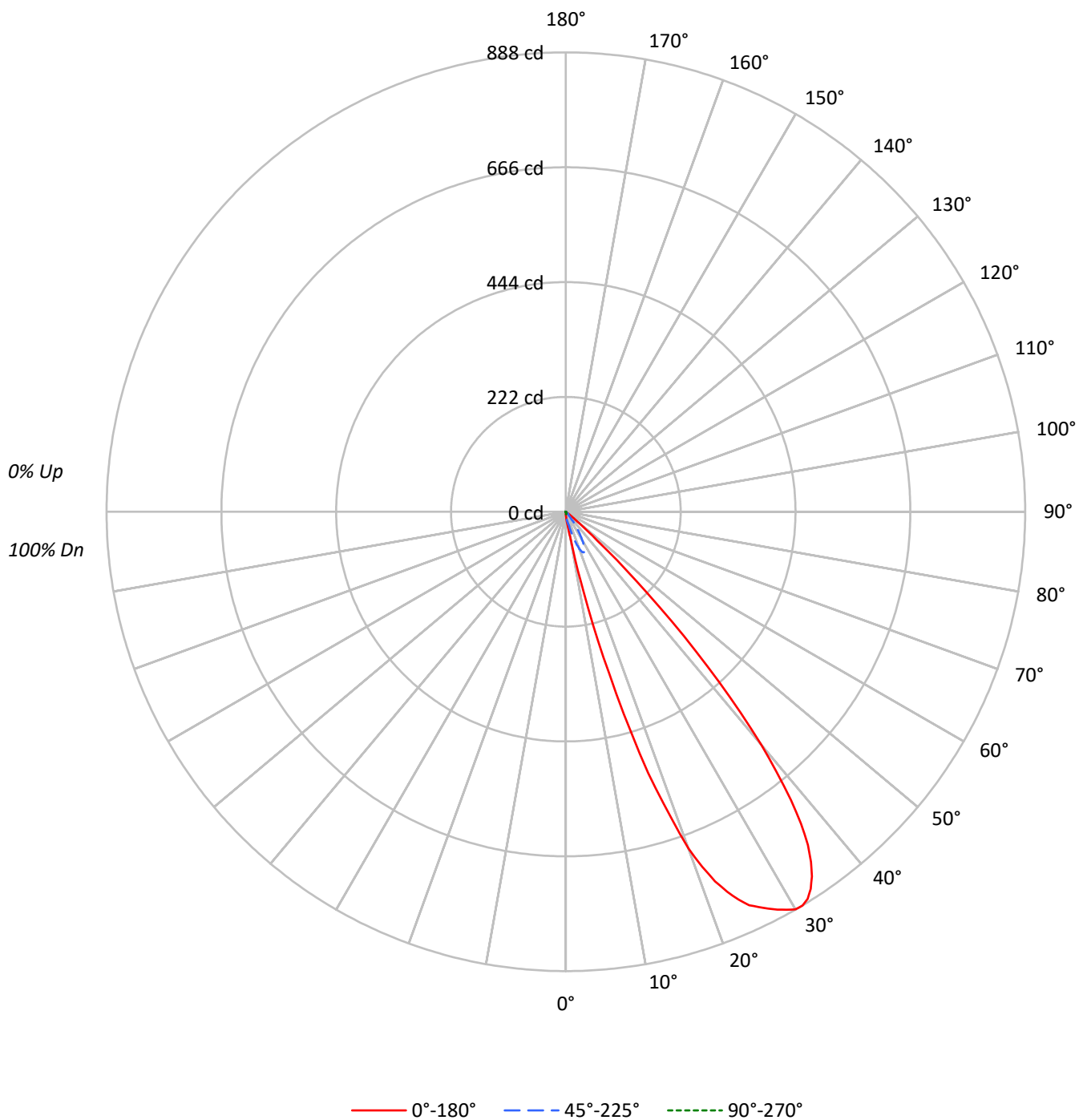
Lumens per Lamp: N/A
Luminaire Lumens: 174.0 lumens
Efficiency: N/A
Efficacy: 48.3 lumens/watt
Spacing Criteria (0/90/45): 2.4 / 0.45 / 1.25
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92		
2	106	100	95	92	103	98	94	90	95	92	88	92	89	87	89	87	85	83		
3	99	92	86	81	97	90	85	80	87	83	79	85	81	78	83	79	77	75		
4	93	84	77	72	91	83	76	72	80	75	71	78	74	70	76	72	69	67		
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	62	61		
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	56	55		
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49		
8	70	59	52	47	69	58	52	47	57	51	47	56	51	46	55	50	46	45		
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40		
10	62	50	43	38	60	50	43	38	49	42	38	48	42	38	47	42	38	36		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	947	947	947	947	947
5°	2974	2075	864	467	346
10°	9356	3760	647	52	0
15°	57858	7168	392	0	0
20°	126845	13966	128	0	0
25°	159451	16057	0	0	0
30°	176513	12429	0	0	0
35°	173768	7043	0	0	0
40°	132082	1844	0	0	0
45°	53510	804	0	0	0
50°	5948	80	0	0	0
55°	450	0	60	0	0
60°	0	0	69	0	0
65°	0	0	122	0	0
70°	0	101	151	0	0
75°	0	133	333	0	0
80°	0	198	496	0	0
85°	0	395	988	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 53510 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.9	0.5
10°-20°	18.0	10.3
20°-30°	62.8	36.1
30°-40°	70.1	40.3
40°-50°	21.2	12.2
50°-60°	0.7	0.4
60°-70°	0.1	0.1
70°-80°	0.2	0.1
80°-90°	0.1	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°	81.7	46.9
0°-40°	151.7	87.2
0°-60°	173.6	99.8
0°-90°	174.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	174.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	6	6	6	6	6	
5°	17	12	5	3	2	3
15°	324	40	2	0	0	108
25°	839	84	0	0	0	383
35°	826	34	0	0	0	496
45°	220	3	0	0	0	190
55°	2	0	0	0	0	5
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°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
2.5°	9.5	9.8	9.7	9.8	9.7	9.7	9.7	9.8	9.7	9.7	9.7
5°	17.2	17.3	17.3	17.2	17.2	17.5	17.2	17.3	16.8	17.2	17.0
7.5°	28.2	27.8	27.8	28.0	28.0	27.7	27.5	27.2	27.5	27.5	27.0
10°	53.5	53.2	52.3	52.0	52.3	52.3	50.7	51.0	51.2	49.7	49.2
12.5°	157.2	156.0	158.3	154.7	152.5	149.0	151.0	144.2	142.7	141.7	139.3
15°	324.5	333.3	329.5	329.8	330.5	322.1	325.0	314.6	306.0	303.3	301.5
17.5°	529.1	531.8	528.3	526.6	526.0	522.0	517.1	512.0	505.3	499.5	494.6
20°	692.1	690.1	684.1	684.8	677.6	674.0	669.8	664.6	659.5	651.0	642.8
21°	735.1	729.3	729.5	725.5	725.3	720.6	713.3	708.0	703.3	693.6	688.5
22°	770.5	769.1	766.1	763.1	760.0	757.6	749.5	746.8	737.3	729.3	722.0
23°	798.0	798.5	795.8	793.8	789.5	788.5	778.0	774.3	767.8	755.6	748.1
24°	820.8	820.0	817.0	813.5	811.0	808.6	800.6	794.6	787.5	777.5	770.1
25°	839.1	837.1	835.1	832.5	828.5	825.8	817.6	811.0	804.8	793.6	783.6
26°	850.0	850.5	847.3	845.3	841.8	839.1	830.6	822.8	815.1	803.1	794.1
27°	861.0	860.5	857.6	854.6	851.0	850.0	840.1	832.0	824.1	811.5	800.8
28°	871.1	869.8	867.5	864.0	860.0	857.0	847.5	839.0	830.5	817.0	805.3
29°	879.6	878.3	876.8	872.3	867.1	865.1	855.0	844.6	836.1	822.3	810.0
30°	887.6	885.1	881.6	877.8	872.8	869.0	858.3	849.3	839.3	824.0	812.1
31°	888.0	884.6	882.1	878.1	872.5	867.8	856.6	847.5	835.8	821.5	808.6
32°	882.1	880.5	876.5	872.1	866.6	862.0	849.6	840.0	829.0	813.6	800.8
33°	869.0	867.3	865.0	860.5	853.3	849.0	838.0	827.3	816.5	802.6	788.0
34°	850.8	848.8	845.8	841.3	834.0	829.5	820.6	809.6	798.1	783.8	770.1
35°	826.5	822.6	821.8	815.1	808.3	807.1	796.6	785.1	773.5	757.6	745.8
36°	796.3	791.8	788.8	786.5	782.0	776.5	766.1	757.0	742.0	731.8	715.1
37°	755.1	749.6	752.5	746.1	739.1	736.8	723.6	715.3	702.6	688.8	674.6
38°	707.1	706.6	706.0	703.1	691.1	685.0	679.5	670.6	659.6	643.0	623.8
39°	646.5	647.5	644.0	644.3	638.3	632.1	624.5	614.5	601.1	586.0	570.5
40°	587.5	573.3	575.8	567.3	567.8	558.6	548.6	539.8	531.3	518.0	496.8
42.5°	406.5	404.3	396.8	391.5	393.8	382.0	368.8	356.5	344.6	329.6	311.1
45°	219.7	214.7	216.2	207.5	207.5	202.2	198.5	188.2	177.2	170.3	159.7
47.5°	81.7	82.7	84.5	81.0	77.0	79.3	75.8	75.8	74.0	71.8	68.8
50°	22.2	22.5	22.2	22.2	21.7	21.3	20.7	20.5	20.3	19.8	19.0
52.5°	9.0	8.5	8.5	8.7	8.7	8.3	8.5	8.5	8.3	8.2	8.2
55°	1.5	1.7	1.7	1.7	1.7	1.5	1.5	1.7	1.8	1.7	1.7
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	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):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
2.5°	9.3	8.2	6.8	5.7	4.5	3.8	3.5	3.7
5°	15.8	12.0	7.8	5.0	3.5	2.7	2.2	2.0
7.5°	24.3	16.5	8.8	4.3	2.7	1.3	0.8	0.7
10°	37.3	21.5	9.5	3.7	1.7	0.3	0.0	0.0
12.5°	95.8	26.3	9.7	3.0	0.7	0.0	0.0	0.0
15°	197.0	40.2	9.3	2.2	0.2	0.0	0.0	0.0
17.5°	327.5	61.5	8.2	1.5	0.0	0.0	0.0	0.0
20°	454.3	76.2	6.5	0.7	0.0	0.0	0.0	0.0
21°	492.5	80.5	5.8	0.5	0.0	0.0	0.0	0.0
22°	523.6	83.7	5.2	0.3	0.0	0.0	0.0	0.0
23°	549.6	85.3	4.5	0.2	0.0	0.0	0.0	0.0
24°	567.8	85.7	4.2	0.2	0.0	0.0	0.0	0.0
25°	576.5	84.5	3.7	0.0	0.0	0.0	0.0	0.0
26°	579.8	82.2	3.3	0.0	0.0	0.0	0.0	0.0
27°	577.3	79.2	3.0	0.0	0.0	0.0	0.0	0.0
28°	572.8	74.7	2.5	0.0	0.0	0.0	0.0	0.0
29°	564.0	68.7	2.2	0.0	0.0	0.0	0.0	0.0
30°	555.5	62.5	1.8	0.0	0.0	0.0	0.0	0.0
31°	545.8	57.0	1.5	0.0	0.0	0.0	0.0	0.0
32°	534.0	50.7	1.2	0.0	0.0	0.0	0.0	0.0
33°	514.3	44.8	0.8	0.0	0.0	0.0	0.0	0.0
34°	486.8	39.3	0.7	0.0	0.0	0.0	0.0	0.0
35°	450.0	33.5	0.5	0.0	0.0	0.0	0.0	0.0
36°	409.6	27.3	0.3	0.0	0.0	0.0	0.0	0.0
37°	360.3	19.8	0.3	0.0	0.0	0.0	0.0	0.0
38°	308.8	12.5	0.2	0.0	0.0	0.0	0.0	0.0
39°	256.2	9.5	0.2	0.0	0.0	0.0	0.0	0.0
40°	208.0	8.2	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	111.3	5.5	0.0	0.0	0.0	0.0	0.0	0.0
45°	65.7	3.3	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	36.7	1.3	0.0	0.0	0.0	0.0	0.0	0.0
50°	13.2	0.3	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	1.8	0.0	0.0	0.2	0.0	0.0	0.0	0.0
57.5°	0.2	0.0	0.2	0.2	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.2	0.2	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.2	0.3	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.3	0.3	0.2	0.0	0.0	0.0
67.5°	0.0	0.2	0.3	0.3	0.2	0.0	0.0	0.0
70°	0.0	0.2	0.3	0.3	0.2	0.0	0.0	0.0
72.5°	0.0	0.2	0.3	0.5	0.2	0.0	0.0	0.0
75°	0.0	0.2	0.3	0.5	0.2	0.0	0.0	0.0
77.5°	0.0	0.2	0.3	0.5	0.2	0.0	0.0	0.0
80°	0.0	0.2	0.3	0.5	0.2	0.0	0.0	0.0



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	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.0	0.2	0.3	0.5	0.2	0.0	0.0	0.0
85°	0.0	0.2	0.3	0.5	0.2	0.0	0.0	0.0
87.5°	0.0	0.2	0.3	0.5	0.2	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)