

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: P1311732

Luminaire Tested: P3SQAS24R209050D010 E3SQCA301MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1311732
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-48)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS24R209050D010 E3SQCA301MB
Description: 3in Adjustable LED luminaire with, R20 optic, 5000K CCT AND, 90CRI , E3SQCA301MB TRIM
Light Source: -
Ballast/Driver: -

Summary

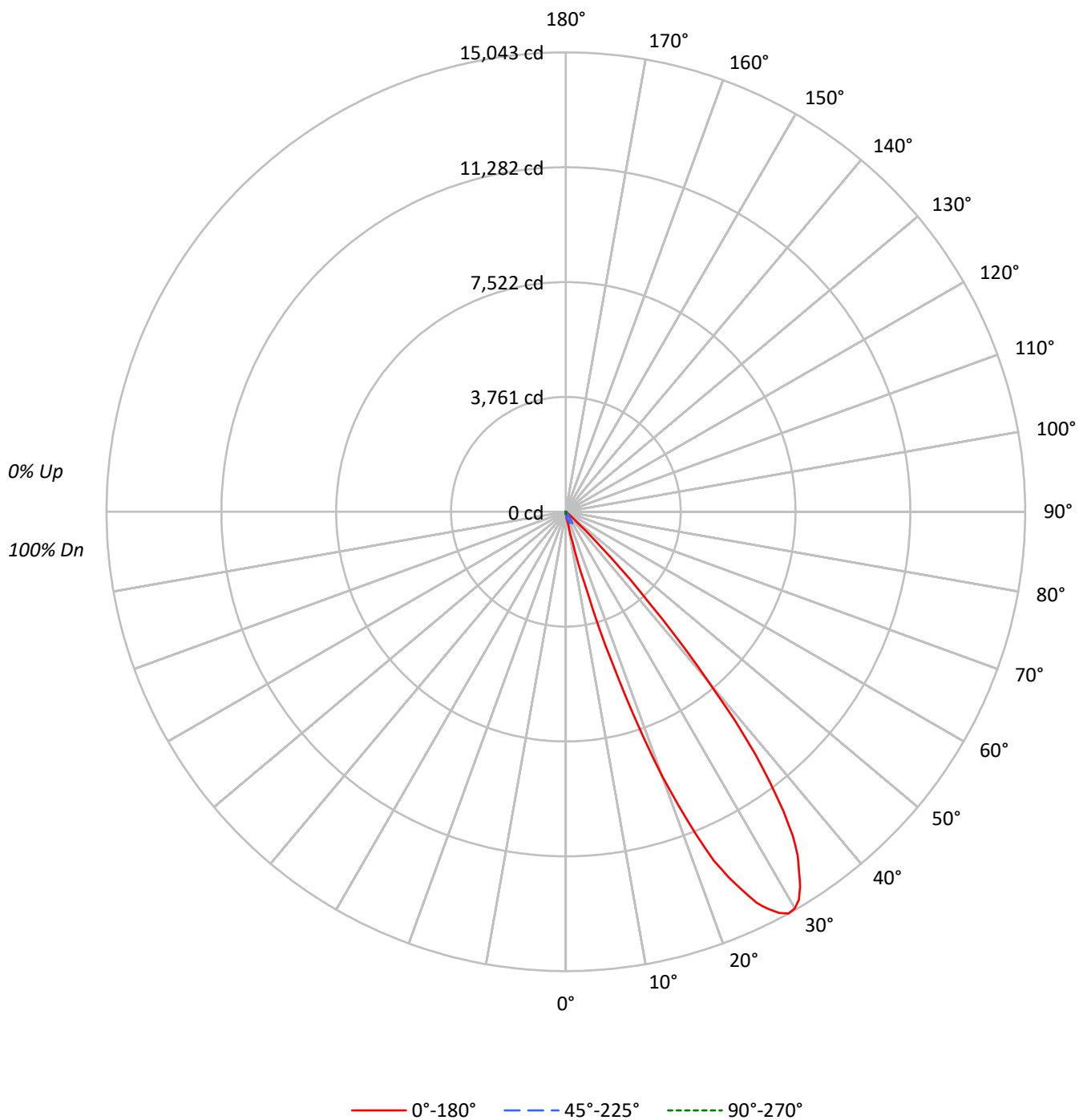
Lumens per Lamp: N/A
Luminaire Lumens: 2076.0 lumens
Efficiency: N/A
Efficacy: 72.1 lumens/watt
Spacing Criteria (0/90/45): 2.28 / 0.42 / 1.12
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 28.8
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	113	109	107	104	110	107	105	102	103	101	99		99	98	96		96	95	93	92
2	106	100	96	92	104	98	94	91	95	92	89		92	89	87		89	87	85	83
3	99	92	86	81	97	90	85	81	88	83	79		85	81	78		83	80	77	75
4	93	84	77	72	91	83	77	72	80	75	71		78	74	70		76	73	69	68
5	87	77	70	65	85	76	69	64	74	68	64		72	67	63		70	66	63	61
6	81	70	63	58	79	69	63	58	68	62	57		66	61	57		65	60	57	55
7	76	64	57	52	74	64	57	52	62	56	52		61	56	51		60	55	51	50
8	71	59	52	47	69	59	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°	12796	12796	12796	12796	12796
5°	27834	19639	11773	5359	3924
10°	69322	34661	8307	1084	0
15°	487770	47481	4778	0	0
20°	1685768	79835	1888	0	0
25°	2598463	102006	779	0	0
30°	2982526	78830	0	0	0
35°	2723871	29960	0	0	0
40°	1632985	13916	0	0	0
45°	401289	6527	0	0	0
50°	44262	1661	0	0	0
55°	6185	0	631	0	0
60°	0	0	1412	0	0
65°	0	0	1671	0	0
70°	0	1057	3122	0	0
75°	0	1397	4126	0	0
80°	0	2083	6149	0	0
85°	0	4150	12251	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 1°

Vertical Angle: 45°

Luminance: 427934 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.4	0.4
10°-20°	162.1	7.8
20°-30°	820.1	39.5
30°-40°	887.3	42.7
40°-50°	187.4	9.0
50°-60°	5.6	0.3
60°-70°	1.4	0.1
70°-80°	1.9	0.1
80°-90°	1.7	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°	990.7	47.7
0°-40°	1878.0	90.5
0°-60°	2071.0	99.8
0°-90°	2076.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2076.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	74	74	74	74	74	
5°	161	114	68	31	23	23
15°	2736	266	27	0	0	1141
25°	13674	537	4	0	0	6181
35°	12956	142	0	0	0	7640
45°	1648	27	0	0	0	1812
55°	21	0	2	0	0	37
65°	0	0	4	0	0	0
75°	0	2	6	0	0	0
85°	0	2	6	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°	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3
2.5°	101.2	99.1	101.2	99.1	101.2	101.2	101.2	99.1	99.1	99.1	99.1
5°	161.0	161.0	159.0	161.0	161.0	161.0	161.0	159.0	159.0	156.9	156.9
7.5°	254.0	254.0	251.9	251.9	254.0	256.0	247.8	251.9	251.9	251.9	249.8
10°	396.4	404.7	396.4	406.7	398.5	392.3	402.6	392.3	392.3	390.2	384.0
12.5°	999.3	976.6	962.1	927.0	962.1	935.3	941.5	935.3	914.6	887.8	871.3
15°	2735.7	2735.7	2655.1	2762.5	2684.1	2713.0	2564.3	2566.4	2490.0	2407.4	2362.0
17.5°	5719.1	5770.7	5717.0	5684.0	5613.8	5512.6	5471.3	5366.0	5227.7	5066.7	5048.1
20°	9198.0	8981.2	9082.4	8989.5	8931.7	8807.8	8669.5	8582.8	8461.0	8256.6	7955.1
21°	10292.3	10284.0	10282.0	10279.9	10195.3	9992.9	9867.0	9693.6	9522.2	9311.6	9059.7
22°	11394.8	11434.1	11450.6	11330.8	11157.4	11066.6	10979.8	10742.4	10471.9	10362.5	10063.1
23°	12406.5	12369.3	12262.0	12206.2	12072.0	12045.2	11787.1	11636.4	11372.1	11252.4	10897.2
24°	13096.1	13077.5	13028.0	12945.4	12838.0	12672.9	12518.0	12280.6	12063.8	11867.6	11537.3
25°	13674.2	13690.7	13599.9	13544.1	13428.5	13242.7	13052.7	12792.6	12590.3	12361.1	11979.1
26°	14246.1	14130.5	14058.2	13975.6	13849.7	13637.0	13453.3	13220.0	12974.3	12718.3	12344.6
27°	14599.2	14495.9	14386.5	14306.0	14161.5	13959.1	13763.0	13504.9	13230.3	12972.2	12588.2
28°	14877.9	14764.3	14657.0	14559.9	14394.8	14178.0	13942.6	13680.4	13395.5	13129.1	12736.9
29°	15043.1	14908.9	14793.3	14683.8	14533.1	14297.7	14060.3	13779.5	13504.9	13226.2	12825.6
30°	14997.7	14882.0	14770.5	14659.1	14506.3	14285.3	14050.0	13781.6	13504.9	13230.3	12823.6
31°	14820.1	14677.6	14597.1	14485.6	14353.5	14128.4	13926.1	13632.9	13383.1	13085.8	12679.0
32°	14479.4	14388.6	14281.2	14194.5	14066.5	13827.0	13628.8	13389.3	13094.0	12850.4	12423.0
33°	14016.9	13932.3	13878.6	13777.4	13653.6	13488.4	13251.0	13032.1	12699.7	12449.9	12022.5
34°	13575.1	13467.7	13333.5	13304.6	13197.3	12984.6	12769.9	12546.9	12249.6	11931.6	11500.1
35°	12955.7	12844.2	12720.3	12730.7	12602.7	12354.9	12136.0	11886.2	11603.4	11229.7	10820.9
36°	12127.8	12053.5	12034.9	11985.3	11838.7	11543.5	11335.0	11021.1	10783.7	10327.4	9976.4
37°	11118.2	11145.0	11010.8	10946.8	10775.4	10569.0	10451.3	10048.7	9772.0	9429.3	8954.4
38°	10098.2	10059.0	9900.0	9939.2	9703.9	9489.2	9156.7	8917.2	8607.5	8289.6	7909.7
39°	8824.3	8727.3	8537.3	8545.6	8368.0	8126.5	7804.4	7521.5	7335.7	7030.2	6666.8
40°	7263.5	7222.2	7156.1	7046.7	6813.4	6708.1	6421.1	6115.5	5958.6	5535.3	5357.8
42.5°	4030.2	3974.5	3863.0	3823.7	3699.9	3576.0	3408.7	3204.3	3105.2	2979.3	2698.5
45°	1647.6	1757.0	1730.2	1699.2	1604.2	1610.4	1490.7	1505.1	1395.7	1321.4	1269.8
47.5°	363.4	394.3	396.4	382.0	396.4	384.0	377.8	367.5	369.6	375.8	361.3
50°	165.2	163.1	167.2	165.2	163.1	161.0	159.0	152.8	156.9	152.8	148.7
52.5°	64.0	66.1	66.1	61.9	64.0	64.0	64.0	61.9	61.9	61.9	61.9
55°	20.6	20.6	20.6	18.6	18.6	20.6	20.6	20.6	20.6	20.6	18.6
57.5°	2.1	4.1	2.1	4.1	2.1	2.1	2.1	2.1	2.1	4.1	4.1
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°	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3
2.5°	95.0	86.7	80.5	74.3	61.9	51.6	47.5	47.5
5°	146.6	113.6	84.7	68.1	47.5	31.0	24.8	22.7
7.5°	220.9	152.8	88.8	57.8	31.0	16.5	10.3	8.3
10°	320.0	198.2	92.9	47.5	18.6	6.2	0.0	0.0
12.5°	559.5	237.4	92.9	37.2	8.3	0.0	0.0	0.0
15°	1282.2	266.3	88.8	26.8	2.1	0.0	0.0	0.0
17.5°	2663.4	334.5	78.5	18.6	0.0	0.0	0.0	0.0
20°	4253.2	435.6	61.9	10.3	0.0	0.0	0.0	0.0
21°	4907.7	470.7	55.7	8.3	0.0	0.0	0.0	0.0
22°	5378.4	503.8	49.6	6.2	0.0	0.0	0.0	0.0
23°	5896.7	524.4	43.4	4.1	0.0	0.0	0.0	0.0
24°	6278.6	536.8	37.2	4.1	0.0	0.0	0.0	0.0
25°	6516.1	536.8	33.0	4.1	0.0	0.0	0.0	0.0
26°	6656.4	524.4	28.9	2.1	0.0	0.0	0.0	0.0
27°	6689.5	503.8	24.8	2.1	0.0	0.0	0.0	0.0
28°	6648.2	476.9	20.6	0.0	0.0	0.0	0.0	0.0
29°	6518.1	437.7	18.6	0.0	0.0	0.0	0.0	0.0
30°	6377.7	396.4	14.5	0.0	0.0	0.0	0.0	0.0
31°	6138.2	340.7	12.4	0.0	0.0	0.0	0.0	0.0
32°	5861.6	282.9	10.3	0.0	0.0	0.0	0.0	0.0
33°	5492.0	223.0	8.3	0.0	0.0	0.0	0.0	0.0
34°	4946.9	175.5	8.3	0.0	0.0	0.0	0.0	0.0
35°	4457.6	142.5	6.2	0.0	0.0	0.0	0.0	0.0
36°	3817.5	113.6	6.2	0.0	0.0	0.0	0.0	0.0
37°	3270.4	95.0	6.2	0.0	0.0	0.0	0.0	0.0
38°	2737.7	80.5	4.1	0.0	0.0	0.0	0.0	0.0
39°	2221.6	70.2	4.1	0.0	0.0	0.0	0.0	0.0
40°	1771.5	61.9	4.1	0.0	0.0	0.0	0.0	0.0
42.5°	955.9	41.3	0.0	0.0	0.0	0.0	0.0	0.0
45°	528.6	26.8	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	233.3	14.5	0.0	0.0	0.0	0.0	0.0	0.0
50°	78.5	6.2	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	39.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	18.6	0.0	0.0	2.1	0.0	0.0	0.0	0.0
57.5°	4.1	0.0	0.0	2.1	0.0	0.0	0.0	0.0
60°	0.0	0.0	2.1	4.1	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	2.1	4.1	2.1	0.0	0.0	0.0
65°	0.0	0.0	4.1	4.1	2.1	0.0	0.0	0.0
67.5°	0.0	2.1	4.1	6.2	2.1	0.0	0.0	0.0
70°	0.0	2.1	4.1	6.2	2.1	0.0	0.0	0.0
72.5°	0.0	2.1	4.1	6.2	2.1	0.0	0.0	0.0
75°	0.0	2.1	4.1	6.2	2.1	0.0	0.0	0.0
77.5°	0.0	2.1	4.1	6.2	2.1	0.0	0.0	0.0
80°	0.0	2.1	4.1	6.2	2.1	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°
82.5°	0.0	2.1	4.1	6.2	2.1	0.0	0.0	0.0
85°	0.0	2.1	4.1	6.2	2.1	0.0	0.0	0.0
87.5°	0.0	2.1	4.1	6.2	2.1	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)