

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: P1316511

Luminaire Tested: P3SQAS20R259827D010 E3SQCA301MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1316511
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: P3SQAS20R259827D010 E3SQCA301MB
Description: 3in Adjustable LED luminaire with, R25 optic, 2700K CCT AND, 98CRI , E3SQCA301MB TRIM
Light Source: -
Ballast/Driver: -

Summary

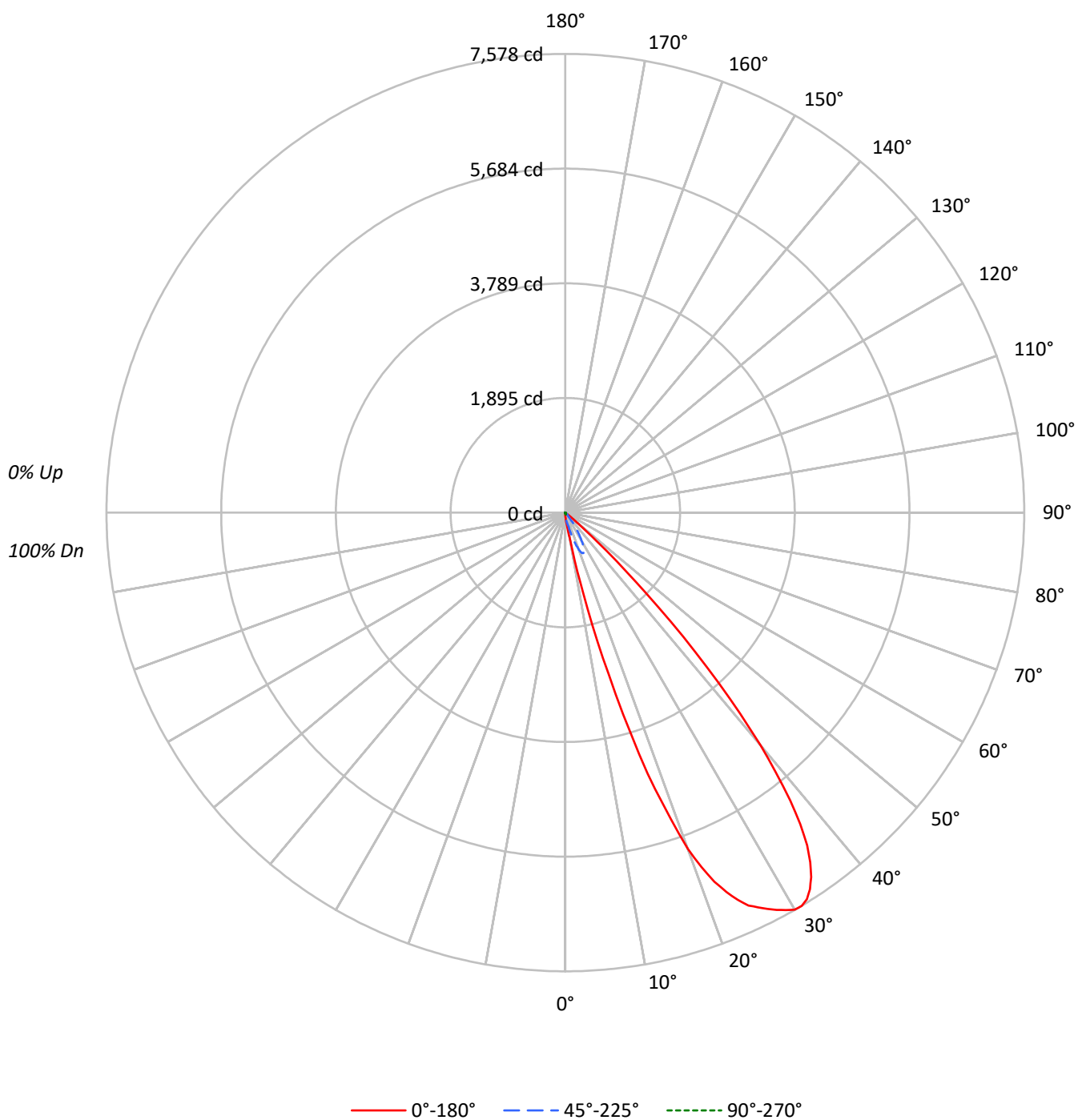
Lumens per Lamp: N/A
Luminaire Lumens: 1485.0 lumens
Efficiency: N/A
Efficacy: 54.2 lumens/watt
Spacing Criteria (0/90/45): 2.4 / 0.45 / 1.25
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 27.4
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°	8077	8077	8077	8077	8077
5°	25327	17703	7382	3942	2956
10°	79850	32090	5474	490	0
15°	493761	61121	3299	0	0
20°	1082608	119129	1045	0	0
25°	1360876	137028	0	0	0
30°	1506486	106075	0	0	0
35°	1482942	60109	0	0	0
40°	1127183	15670	0	0	0
45°	456577	6917	0	0	0
50°	50693	750	0	0	0
55°	3843	0	420	0	0
60°	0	0	482	0	0
65°	0	0	1141	0	0
70°	0	705	1410	0	0
75°	0	932	2861	0	0
80°	0	1389	4265	0	0
85°	0	2766	8497	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 456577 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.3	0.5
10°-20°	153.4	10.3
20°-30°	536.2	36.1
30°-40°	598.1	40.3
40°-50°	180.6	12.2
50°-60°	6.0	0.4
60°-70°	0.8	0.1
70°-80°	1.3	0.1
80°-90°	1.2	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°	696.9	46.9
0°-40°	1295.0	87.2
0°-60°	1481.7	99.8
0°-90°	1485.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1485.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	47	47	47	47	47	
5°	146	102	43	23	17	23
15°	2769	343	18	0	0	921
25°	7162	721	0	0	0	3267
35°	7053	286	0	0	0	4234
45°	1875	28	0	0	0	1619
55°	13	0	1	0	0	40
65°	0	0	3	0	0	0
75°	0	1	4	0	0	0
85°	0	1	4	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°	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9
2.5°	81.1	83.9	82.5	83.9	82.5	82.5	82.5	83.9	82.5	82.5	82.5
5°	146.5	147.9	147.9	146.5	146.5	149.3	146.5	147.9	143.7	146.5	145.1
7.5°	240.4	237.5	237.5	239.0	239.0	236.1	234.7	231.8	234.7	234.7	230.4
10°	456.6	453.7	446.6	443.8	446.6	446.6	432.4	435.2	436.7	423.9	419.6
12.5°	1341.3	1331.3	1351.2	1319.9	1301.4	1271.6	1288.6	1230.3	1217.5	1209.0	1189.1
15°	2769.3	2844.7	2812.0	2814.8	2820.5	2749.4	2773.6	2685.4	2611.4	2588.7	2573.0
17.5°	4515.9	4538.7	4508.8	4494.6	4488.9	4454.8	4413.5	4369.4	4312.5	4262.7	4221.5
20°	5907.0	5889.9	5838.7	5844.4	5783.2	5751.9	5716.4	5672.3	5628.2	5555.6	5485.9
21°	6273.9	6224.1	6225.6	6191.4	6190.0	6150.2	6087.6	6042.1	6002.3	5919.8	5875.7
22°	6575.5	6564.1	6538.5	6512.9	6485.9	6465.9	6396.2	6373.5	6292.4	6224.1	6161.6
23°	6810.1	6814.4	6791.7	6774.6	6737.6	6729.1	6639.5	6608.2	6552.7	6448.9	6384.9
24°	7005.0	6997.9	6972.3	6942.4	6921.1	6901.2	6832.9	6781.7	6720.5	6635.2	6572.6
25°	7161.5	7144.4	7127.3	7104.6	7070.4	7047.7	6978.0	6921.1	6868.5	6773.2	6687.8
26°	7253.9	7258.2	7231.2	7214.1	7184.2	7161.5	7088.9	7022.1	6956.6	6854.2	6777.4
27°	7347.8	7343.5	7319.3	7293.7	7262.4	7253.9	7170.0	7100.3	7033.4	6925.4	6834.3
28°	7434.5	7423.2	7403.3	7373.4	7339.3	7313.6	7232.6	7160.0	7087.5	6972.3	6872.7
29°	7507.1	7495.7	7482.9	7444.5	7400.4	7383.3	7296.6	7208.4	7135.9	7017.8	6912.6
30°	7575.4	7554.0	7524.2	7491.4	7448.8	7416.1	7325.0	7248.2	7162.9	7032.0	6931.0
31°	7578.2	7549.8	7528.4	7494.3	7445.9	7406.1	7310.8	7232.6	7133.0	7010.7	6901.2
32°	7528.4	7514.2	7480.1	7443.1	7396.1	7356.3	7251.1	7168.6	7074.7	6943.8	6834.3
33°	7416.1	7401.8	7381.9	7343.5	7282.4	7245.4	7151.5	7060.5	6968.0	6850.0	6724.8
34°	7261.0	7244.0	7218.4	7180.0	7117.4	7079.0	7003.6	6909.7	6811.6	6689.2	6572.6
35°	7053.4	7020.6	7013.5	6956.6	6898.3	6888.4	6798.8	6700.6	6601.1	6465.9	6365.0
36°	6795.9	6757.5	6731.9	6712.0	6673.6	6626.7	6538.5	6460.2	6332.2	6245.5	6103.2
37°	6444.6	6397.7	6421.8	6367.8	6308.1	6288.1	6175.8	6104.7	5996.6	5878.5	5757.6
38°	6035.0	6030.7	6025.0	6000.8	5898.4	5845.8	5798.9	5723.5	5629.6	5487.4	5323.8
39°	5517.2	5525.8	5495.9	5498.7	5447.5	5394.9	5329.5	5244.2	5130.4	5000.9	4868.7
40°	5013.7	4892.8	4914.2	4841.6	4845.9	4767.7	4682.3	4606.9	4534.4	4420.6	4240.0
42.5°	3469.1	3450.6	3386.6	3341.1	3361.0	3260.0	3147.6	3042.4	2941.4	2813.4	2655.5
45°	1874.6	1832.0	1844.8	1770.8	1770.8	1725.3	1694.0	1605.8	1511.9	1453.6	1362.6
47.5°	696.9	705.5	721.1	691.3	657.1	677.0	647.2	647.2	631.5	613.0	587.4
50°	189.2	192.0	189.2	189.2	184.9	182.1	176.4	174.9	173.5	169.3	162.1
52.5°	76.8	72.5	72.5	74.0	74.0	71.1	72.5	72.5	71.1	69.7	69.7
55°	12.8	14.2	14.2	14.2	14.2	12.8	12.8	14.2	15.6	14.2	14.2
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°	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9
2.5°	79.7	69.7	58.3	48.4	38.4	32.7	29.9	31.3
5°	135.1	102.4	66.8	42.7	29.9	22.8	18.5	17.1
7.5°	207.7	140.8	75.4	37.0	22.8	11.4	7.1	5.7
10°	318.6	183.5	81.1	31.3	14.2	2.8	0.0	0.0
12.5°	817.8	224.7	82.5	25.6	5.7	0.0	0.0	0.0
15°	1681.2	342.8	79.7	18.5	1.4	0.0	0.0	0.0
17.5°	2794.9	524.8	69.7	12.8	0.0	0.0	0.0	0.0
20°	3877.3	650.0	55.5	5.7	0.0	0.0	0.0	0.0
21°	4203.0	687.0	49.8	4.3	0.0	0.0	0.0	0.0
22°	4469.0	714.0	44.1	2.8	0.0	0.0	0.0	0.0
23°	4690.9	728.2	38.4	1.4	0.0	0.0	0.0	0.0
24°	4845.9	731.1	35.6	1.4	0.0	0.0	0.0	0.0
25°	4919.9	721.1	31.3	0.0	0.0	0.0	0.0	0.0
26°	4948.3	701.2	28.4	0.0	0.0	0.0	0.0	0.0
27°	4927.0	675.6	25.6	0.0	0.0	0.0	0.0	0.0
28°	4888.6	637.2	21.3	0.0	0.0	0.0	0.0	0.0
29°	4813.2	586.0	18.5	0.0	0.0	0.0	0.0	0.0
30°	4740.6	533.4	15.6	0.0	0.0	0.0	0.0	0.0
31°	4658.1	486.4	12.8	0.0	0.0	0.0	0.0	0.0
32°	4557.2	432.4	10.0	0.0	0.0	0.0	0.0	0.0
33°	4389.3	382.6	7.1	0.0	0.0	0.0	0.0	0.0
34°	4154.6	335.7	5.7	0.0	0.0	0.0	0.0	0.0
35°	3840.3	285.9	4.3	0.0	0.0	0.0	0.0	0.0
36°	3496.1	233.3	2.8	0.0	0.0	0.0	0.0	0.0
37°	3075.1	169.3	2.8	0.0	0.0	0.0	0.0	0.0
38°	2635.6	106.7	1.4	0.0	0.0	0.0	0.0	0.0
39°	2186.1	81.1	1.4	0.0	0.0	0.0	0.0	0.0
40°	1775.1	69.7	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	950.1	46.9	0.0	0.0	0.0	0.0	0.0	0.0
45°	560.4	28.4	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	312.9	11.4	0.0	0.0	0.0	0.0	0.0	0.0
50°	112.4	2.8	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	44.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	15.6	0.0	0.0	1.4	0.0	0.0	0.0	0.0
57.5°	1.4	0.0	1.4	1.4	0.0	0.0	0.0	0.0
60°	0.0	0.0	1.4	1.4	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	1.4	2.8	0.0	0.0	0.0	0.0
65°	0.0	0.0	2.8	2.8	1.4	0.0	0.0	0.0
67.5°	0.0	1.4	2.8	2.8	1.4	0.0	0.0	0.0
70°	0.0	1.4	2.8	2.8	1.4	0.0	0.0	0.0
72.5°	0.0	1.4	2.8	4.3	1.4	0.0	0.0	0.0
75°	0.0	1.4	2.8	4.3	1.4	0.0	0.0	0.0
77.5°	0.0	1.4	2.8	4.3	1.4	0.0	0.0	0.0
80°	0.0	1.4	2.8	4.3	1.4	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	1.4	2.8	4.3	1.4	0.0	0.0	0.0
85°	0.0	1.4	2.8	4.3	1.4	0.0	0.0	0.0
87.5°	0.0	1.4	2.8	4.3	1.4	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)