

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: P1316545

Luminaire Tested: P3SQAS20R359827D010 E3SQCA301MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1316545
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-51)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS20R359827D010 E3SQCA301MB
Description: 3in Adjustable LED luminaire with, R35 optic, 2700K CCT AND, 98CRI , E3SQCA301MB TRIM
Light Source: -
Ballast/Driver: -

Summary

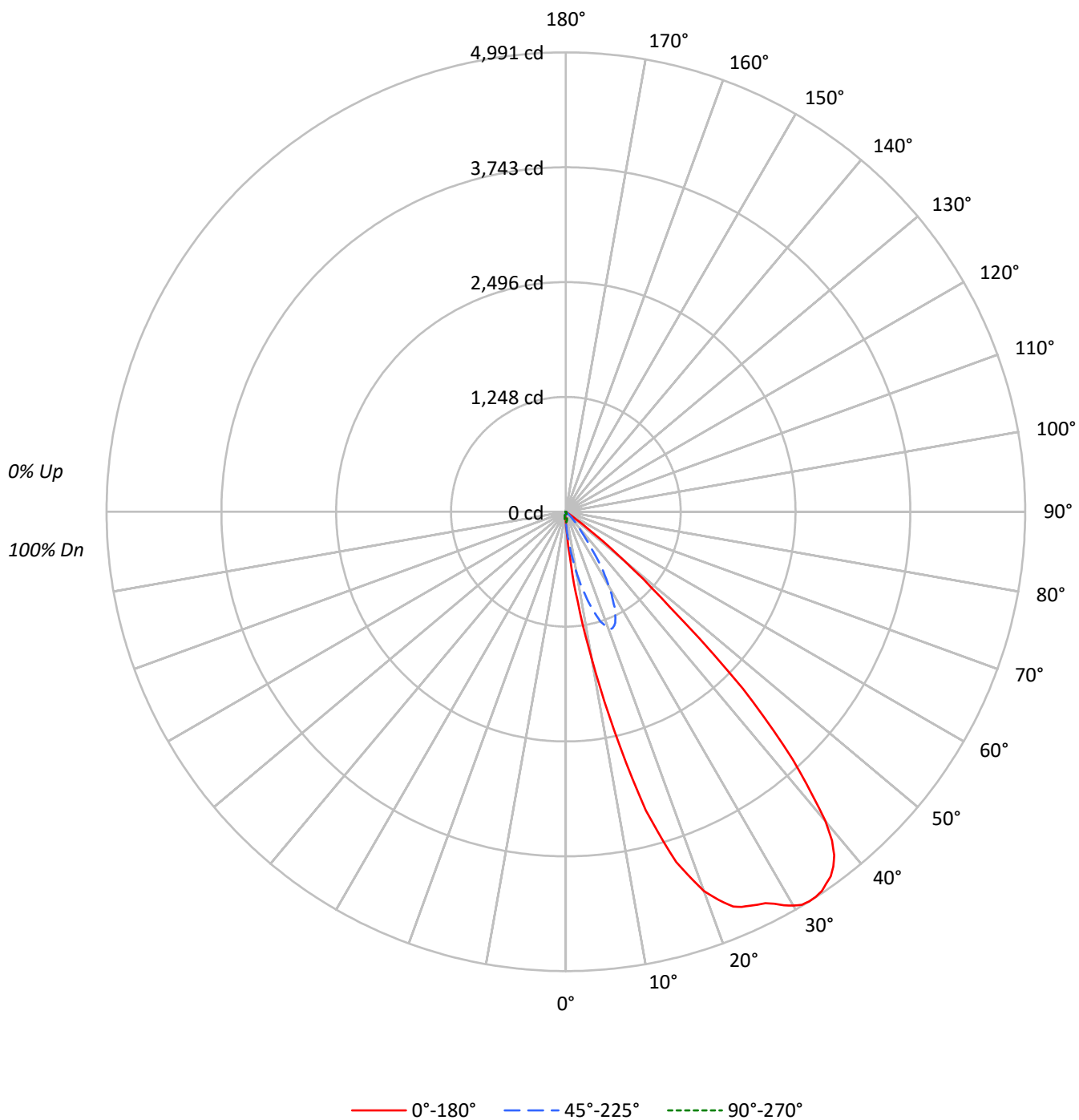
Lumens per Lamp: N/A
Luminaire Lumens: 1491.0 lumens
Efficiency: N/A
Efficacy: 54.4 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.45 / 1.29
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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			0
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	91		
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83		
3	99	91	86	81	97	90	85	80	87	83	79	85	81	78	82	79	76	75		
4	93	84	77	72	91	82	76	72	80	75	71	78	73	70	76	72	69	67		
5	86	76	70	64	85	75	69	64	74	68	63	72	67	63	70	66	62	61		
6	81	70	63	58	79	69	62	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	71	59	52	47	69	59	52	47	57	51	47	56	51	46	55	50	46	45		
9	66	55	47	43	65	54	47	43	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°	19358	19358	19358	19358	19358
5°	84106	52141	17945	6397	4426
10°	283077	117659	13431	1486	490
15°	599028	193008	8362	0	0
20°	803205	246616	3904	0	0
25°	897648	242189	817	0	0
30°	982694	185561	0	0	0
35°	1037118	101086	0	0	0
40°	985906	45414	0	0	0
45°	661703	20094	0	0	0
50°	221043	1902	0	0	0
55°	11950	0	0	0	0
60°	0	0	482	0	0
65°	0	0	1141	0	0
70°	0	705	1410	0	0
75°	0	932	1863	0	0
80°	0	1389	2777	0	0
85°	0	2766	5533	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 661703 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	24.1	1.6
10°-20°	206.9	13.9
20°-30°	453.9	30.4
30°-40°	525.0	35.2
40°-50°	259.2	17.4
50°-60°	19.2	1.3
60°-70°	0.7	0.0
70°-80°	1.1	0.1
80°-90°	1.0	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°	684.9	45.9
0°-40°	1209.9	81.2
0°-60°	1488.3	99.8
0°-90°	1491.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1491.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	112	112	112	112	112	
5°	486	302	104	37	26	84
15°	3360	1082	47	0	0	948
25°	4724	1274	4	0	0	2184
35°	4933	481	0	0	0	3046
45°	2717	82	0	0	0	1994
55°	40	0	0	0	0	163
65°	0	0	3	0	0	0
75°	0	1	3	0	0	0
85°	0	1	3	0	0	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	112.4	112.4	112.4	112.4	112.4	112.4	112.4	112.4	112.4	112.4	112.4
2.5°	223.3	229.0	226.2	226.2	224.7	217.6	204.8	200.6	184.9	146.5	113.8
5°	486.5	487.9	483.6	462.3	443.8	426.7	389.7	372.7	301.6	179.2	103.8
7.5°	987.2	965.8	938.8	908.9	843.5	783.7	705.5	623.0	466.6	207.7	92.5
10°	1618.7	1588.8	1566.1	1495.0	1376.9	1254.6	1105.2	970.1	672.8	227.6	76.8
12.5°	2433.7	2416.7	2335.6	2193.4	2018.4	1842.0	1581.7	1366.9	880.5	231.9	62.6
15°	3359.7	3331.3	3207.5	3005.6	2768.0	2490.6	2142.2	1780.9	1082.5	219.1	46.9
17.5°	3992.7	3977.1	3870.4	3658.4	3385.3	3032.6	2620.1	2169.2	1248.9	192.0	32.7
20°	4382.5	4359.7	4260.1	4080.9	3795.0	3426.6	2937.3	2416.7	1345.6	157.9	21.3
21°	4483.4	4460.7	4381.0	4194.7	3921.6	3526.2	3024.0	2476.4	1364.1	142.2	17.1
22°	4578.7	4556.0	4472.1	4307.1	4036.8	3624.3	3092.3	2521.9	1361.2	129.4	12.8
23°	4658.4	4634.2	4551.7	4399.5	4127.8	3711.1	3143.5	2544.7	1342.8	116.6	10.0
24°	4699.7	4685.4	4611.5	4467.8	4201.8	3772.2	3179.1	2553.2	1320.0	103.8	7.1
25°	4723.8	4706.8	4634.2	4501.9	4250.2	3820.6	3201.9	2546.1	1274.5	92.5	4.3
26°	4749.4	4723.8	4641.3	4513.3	4275.8	3843.4	3203.3	2527.6	1226.1	82.5	1.4
27°	4772.2	4748.0	4662.7	4521.9	4280.0	3836.2	3191.9	2492.1	1167.8	72.5	1.4
28°	4822.0	4795.0	4696.8	4540.3	4284.3	3817.8	3156.3	2443.7	1091.0	64.0	0.0
29°	4887.4	4859.0	4746.6	4584.4	4294.3	3797.8	3108.0	2379.7	1024.1	56.9	0.0
30°	4941.5	4915.9	4812.0	4639.9	4319.9	3779.4	3051.1	2292.9	933.1	48.4	0.0
31°	4981.3	4955.7	4860.4	4686.9	4342.6	3762.3	2980.0	2203.3	850.6	42.7	0.0
32°	4991.2	4969.9	4880.3	4706.8	4342.6	3736.7	2914.5	2102.3	769.5	35.6	0.0
33°	4987.0	4965.6	4874.6	4692.5	4304.2	3675.5	2834.9	1981.4	677.1	31.3	0.0
34°	4971.3	4945.7	4849.0	4647.0	4228.8	3571.7	2719.7	1860.5	580.3	25.6	0.0
35°	4932.9	4910.2	4804.9	4561.7	4112.2	3413.8	2566.0	1721.1	480.8	21.3	0.0
36°	4895.9	4861.8	4732.4	4456.4	3958.6	3251.6	2382.5	1560.4	395.4	17.1	0.0
37°	4827.7	4779.3	4648.4	4304.2	3740.9	3022.6	2173.4	1384.0	331.4	12.8	0.0
38°	4736.6	4671.2	4504.8	4127.8	3521.9	2807.8	1977.2	1224.7	278.8	8.5	0.0
39°	4595.8	4519.0	4292.8	3886.0	3268.7	2558.9	1752.4	1055.4	237.5	5.7	0.0
40°	4385.3	4312.8	4062.4	3598.7	3016.9	2284.4	1522.0	864.8	202.0	2.8	0.0
42.5°	3651.3	3551.8	3261.6	2800.7	2230.3	1642.9	1007.1	480.8	133.7	0.0	0.0
45°	2716.8	2628.6	2344.1	1924.5	1486.4	1005.6	539.1	283.1	82.5	0.0	0.0
47.5°	1534.8	1524.8	1339.9	1105.2	829.3	534.8	273.1	170.7	35.6	0.0	0.0
50°	825.0	773.8	667.1	506.4	345.6	233.3	147.9	93.9	7.1	0.0	0.0
52.5°	301.6	291.6	244.7	203.4	156.5	106.7	75.4	41.2	0.0	0.0	0.0
55°	39.8	37.0	38.4	41.2	42.7	37.0	24.2	8.5	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	1.4	2.8	2.8	2.8	0.0	0.0	0.0	1.4
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	2.8
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	2.8
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	2.8	2.8
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	2.8	2.8
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	2.8	2.8
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	2.8	2.8
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	2.8	2.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	2.8	2.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	2.8	2.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	2.8	2.8
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):

	112.5°	135°	157.5°	180°
0°	112.4	112.4	112.4	112.4
2.5°	86.8	66.9	56.9	55.5
5°	59.7	37.0	27.0	25.6
7.5°	41.2	18.5	12.8	11.4
10°	24.2	8.5	4.3	2.8
12.5°	14.2	1.4	0.0	0.0
15°	4.3	0.0	0.0	0.0
17.5°	0.0	0.0	0.0	0.0
20°	0.0	0.0	0.0	0.0
21°	0.0	0.0	0.0	0.0
22°	0.0	0.0	0.0	0.0
23°	0.0	0.0	0.0	0.0
24°	0.0	0.0	0.0	0.0
25°	0.0	0.0	0.0	0.0
26°	0.0	0.0	0.0	0.0
27°	0.0	0.0	0.0	0.0
28°	0.0	0.0	0.0	0.0
29°	0.0	0.0	0.0	0.0
30°	0.0	0.0	0.0	0.0
31°	0.0	0.0	0.0	0.0
32°	0.0	0.0	0.0	0.0
33°	0.0	0.0	0.0	0.0
34°	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0
36°	0.0	0.0	0.0	0.0
37°	0.0	0.0	0.0	0.0
38°	0.0	0.0	0.0	0.0
39°	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0
65°	1.4	0.0	0.0	0.0
67.5°	1.4	0.0	0.0	0.0
70°	1.4	0.0	0.0	0.0
72.5°	1.4	0.0	0.0	0.0
75°	1.4	0.0	0.0	0.0
77.5°	1.4	0.0	0.0	0.0
80°	1.4	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
82.5°	1.4	0.0	0.0	0.0
85°	1.4	0.0	0.0	0.0
87.5°	1.4	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)