

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: P1309392

Luminaire Tested: P3SQAS20R209035D010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1309392
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: P3SQAS20R209035D010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R20 optic, 3500K CCT AND, 90CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

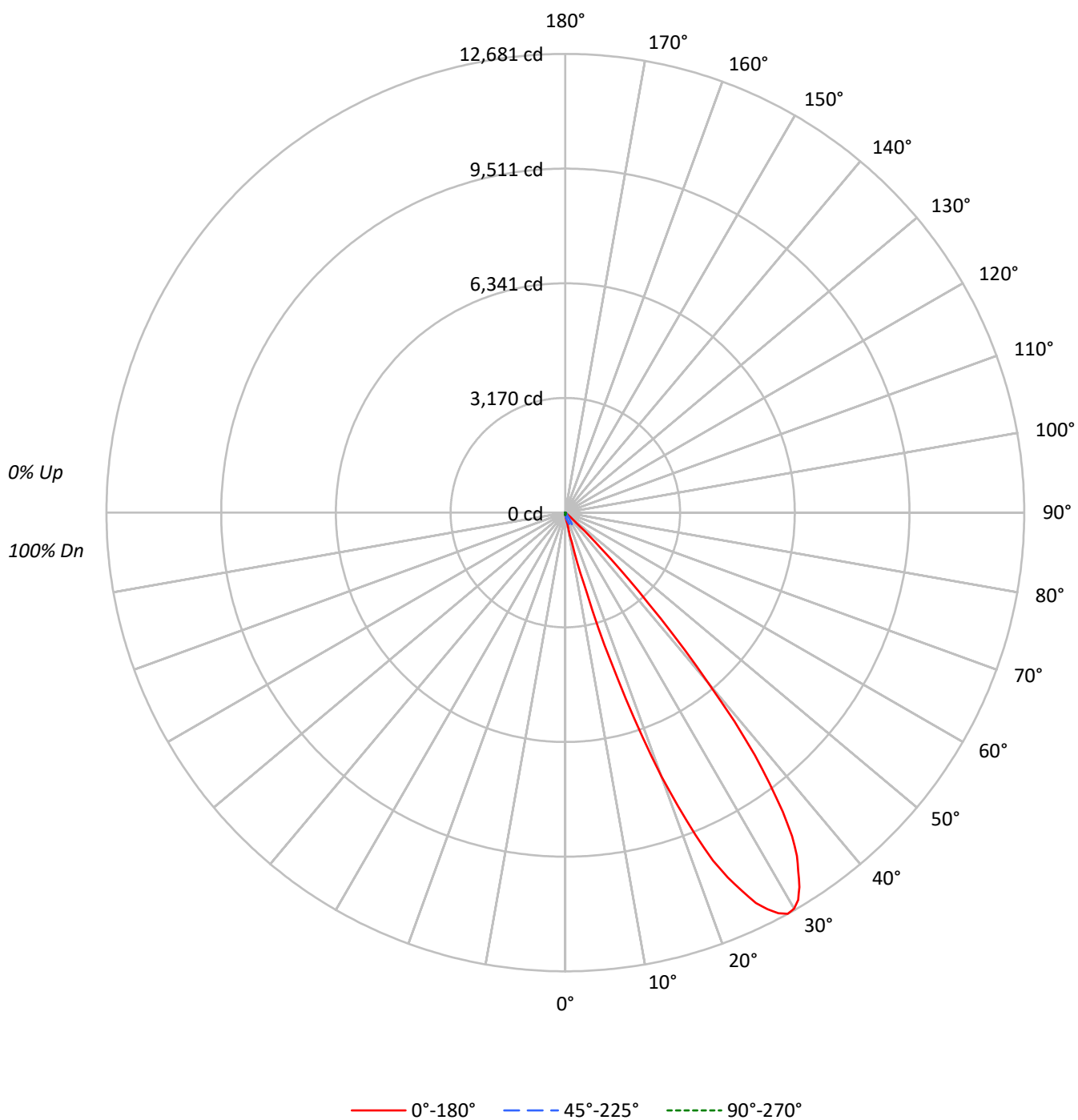
Lumens per Lamp: N/A
Luminaire Lumens: 1750.0 lumens
Efficiency: N/A
Efficacy: 60.8 lumens/watt
Spacing Criteria (0/90/45): 2.28 / 0.42 / 1.12
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	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	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°	10798	10798	10798	10798	10798
5°	23477	16545	9923	4512	3302
10°	58445	29222	6995	909	0
15°	411173	40028	4030	0	0
20°	1421045	67299	1594	0	0
25°	2190418	85987	665	0	0
30°	2514158	66461	0	0	0
35°	2296128	25250	0	0	0
40°	1376555	11736	0	0	0
45°	338280	5504	0	0	0
50°	37296	1393	0	0	0
55°	5225	0	510	0	0
60°	0	0	1206	0	0
65°	0	0	1426	0	0
70°	0	856	2618	0	0
75°	0	1131	3460	0	0
80°	0	1686	5157	0	0
85°	0	3359	10275	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 1°

Vertical Angle: 45°

Luminance: 360736 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.1	0.4
10°-20°	136.7	7.8
20°-30°	691.3	39.5
30°-40°	748.0	42.7
40°-50°	158.0	9.0
50°-60°	4.7	0.3
60°-70°	1.1	0.1
70°-80°	1.6	0.1
80°-90°	1.4	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°	835.1	47.7
0°-40°	1583.1	90.5
0°-60°	1745.8	99.8
0°-90°	1750.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1750.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	63	63	63	63	63	
5°	136	96	57	26	19	19
15°	2306	224	23	0	0	961
25°	11527	452	4	0	0	5210
35°	10921	120	0	0	0	6440
45°	1389	23	0	0	0	1528
55°	17	0	2	0	0	31
65°	0	0	4	0	0	0
75°	0	2	5	0	0	0
85°	0	2	5	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°	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7
2.5°	85.3	83.5	85.3	83.5	85.3	85.3	85.3	83.5	83.5	83.5	83.5
5°	135.8	135.8	134.0	135.8	135.8	135.8	135.8	134.0	134.0	132.3	132.3
7.5°	214.1	214.1	212.3	212.3	214.1	215.8	208.9	212.3	212.3	212.3	210.6
10°	334.2	341.1	334.2	342.9	335.9	330.7	339.4	330.7	330.7	328.9	323.7
12.5°	842.4	823.2	811.0	781.5	811.0	788.4	793.6	788.4	771.0	748.4	734.5
15°	2306.1	2306.1	2238.2	2328.7	2262.6	2286.9	2161.6	2163.4	2099.0	2029.3	1991.1
17.5°	4821.0	4864.5	4819.3	4791.4	4732.2	4647.0	4612.2	4523.4	4406.8	4271.0	4255.4
20°	7753.6	7570.9	7656.2	7577.9	7529.1	7424.7	7308.1	7235.0	7132.3	6960.0	6705.9
21°	8676.1	8669.1	8667.4	8665.6	8594.3	8423.7	8317.5	8171.3	8026.9	7849.4	7637.0
22°	9605.5	9638.5	9652.5	9551.5	9405.3	9328.7	9255.6	9055.5	8827.5	8735.3	8482.9
23°	10458.3	10427.0	10336.5	10289.5	10176.3	10153.7	9936.2	9809.1	9586.3	9485.4	9186.0
24°	11039.6	11023.9	10982.2	10912.5	10822.0	10682.8	10552.3	10352.1	10169.4	10004.0	9725.6
25°	11526.9	11540.8	11464.3	11417.3	11319.8	11163.2	11003.0	10783.7	10613.2	10420.0	10098.0
26°	12009.0	11911.5	11850.6	11781.0	11674.8	11495.6	11340.7	11144.0	10936.9	10721.1	10406.1
27°	12306.6	12219.6	12127.4	12059.5	11937.7	11767.1	11601.7	11384.2	11152.7	10935.2	10611.4
28°	12541.6	12445.9	12355.4	12273.6	12134.3	11951.6	11753.2	11532.1	11292.0	11067.4	10736.8
29°	12680.8	12567.7	12470.2	12378.0	12250.9	12052.5	11852.4	11615.7	11384.2	11149.2	10811.6
30°	12642.5	12545.1	12451.1	12357.1	12228.3	12042.1	11843.7	11617.4	11384.2	11152.7	10809.9
31°	12492.9	12372.8	12304.9	12210.9	12099.5	11909.8	11739.2	11492.1	11281.5	11030.9	10688.0
32°	12205.7	12129.1	12038.6	11965.5	11857.6	11655.7	11488.6	11286.7	11037.8	10832.5	10472.2
33°	11815.8	11744.5	11699.2	11613.9	11509.5	11370.3	11170.1	10985.6	10705.4	10494.8	10134.6
34°	11443.4	11352.9	11239.7	11215.4	11124.9	10945.6	10764.6	10576.6	10326.0	10058.0	9694.2
35°	10921.2	10827.3	10722.8	10731.5	10623.6	10414.8	10230.3	10019.7	9781.3	9466.2	9121.6
36°	10223.3	10160.7	10145.0	10103.2	9979.7	9730.8	9555.0	9290.5	9090.3	8705.7	8409.8
37°	9372.3	9394.9	9281.7	9227.8	9083.3	8909.3	8810.1	8470.7	8237.5	7948.6	7548.3
38°	8512.5	8479.4	8345.4	8378.5	8180.1	7999.0	7718.8	7516.9	7255.9	6987.9	6667.6
39°	7438.6	7356.8	7196.7	7203.7	7054.0	6850.4	6578.9	6340.4	6183.8	5926.2	5619.9
40°	6122.9	6088.0	6032.4	5940.1	5743.4	5654.7	5412.8	5155.2	5022.9	4666.1	4516.4
42.5°	3397.3	3350.3	3256.4	3223.3	3118.9	3014.4	2873.5	2701.2	2617.6	2511.4	2274.8
45°	1388.9	1481.1	1458.5	1432.4	1352.3	1357.5	1256.6	1268.8	1176.5	1113.9	1070.4
47.5°	306.3	332.4	334.2	322.0	334.2	323.7	318.5	309.8	311.5	316.8	304.6
50°	139.2	137.5	141.0	139.2	137.5	135.8	134.0	128.8	132.3	128.8	125.3
52.5°	54.0	55.7	55.7	52.2	54.0	54.0	54.0	52.2	52.2	52.2	52.2
55°	17.4	17.4	17.4	15.7	15.7	17.4	17.4	17.4	17.4	17.4	15.7
57.5°	1.7	3.5	1.7	3.5	1.7	1.7	1.7	1.7	1.7	3.5	3.5
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°	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7
2.5°	80.1	73.1	67.9	62.7	52.2	43.5	40.0	40.0
5°	123.6	95.7	71.4	57.4	40.0	26.1	20.9	19.1
7.5°	186.2	128.8	74.8	48.7	26.1	13.9	8.7	7.0
10°	269.8	167.1	78.3	40.0	15.7	5.2	0.0	0.0
12.5°	471.7	200.2	78.3	31.3	7.0	0.0	0.0	0.0
15°	1080.8	224.5	74.8	22.6	1.7	0.0	0.0	0.0
17.5°	2245.2	282.0	66.1	15.7	0.0	0.0	0.0	0.0
20°	3585.3	367.2	52.2	8.7	0.0	0.0	0.0	0.0
21°	4137.0	396.8	47.0	7.0	0.0	0.0	0.0	0.0
22°	4533.8	424.7	41.8	5.2	0.0	0.0	0.0	0.0
23°	4970.7	442.1	36.5	3.5	0.0	0.0	0.0	0.0
24°	5292.7	452.5	31.3	3.5	0.0	0.0	0.0	0.0
25°	5492.8	452.5	27.8	3.5	0.0	0.0	0.0	0.0
26°	5611.2	442.1	24.4	1.7	0.0	0.0	0.0	0.0
27°	5639.0	424.7	20.9	1.7	0.0	0.0	0.0	0.0
28°	5604.2	402.0	17.4	0.0	0.0	0.0	0.0	0.0
29°	5494.6	369.0	15.7	0.0	0.0	0.0	0.0	0.0
30°	5376.2	334.2	12.2	0.0	0.0	0.0	0.0	0.0
31°	5174.3	287.2	10.4	0.0	0.0	0.0	0.0	0.0
32°	4941.1	238.4	8.7	0.0	0.0	0.0	0.0	0.0
33°	4629.6	188.0	7.0	0.0	0.0	0.0	0.0	0.0
34°	4170.1	147.9	7.0	0.0	0.0	0.0	0.0	0.0
35°	3757.6	120.1	5.2	0.0	0.0	0.0	0.0	0.0
36°	3218.1	95.7	5.2	0.0	0.0	0.0	0.0	0.0
37°	2756.9	80.1	5.2	0.0	0.0	0.0	0.0	0.0
38°	2307.8	67.9	3.5	0.0	0.0	0.0	0.0	0.0
39°	1872.7	59.2	3.5	0.0	0.0	0.0	0.0	0.0
40°	1493.3	52.2	3.5	0.0	0.0	0.0	0.0	0.0
42.5°	805.8	34.8	0.0	0.0	0.0	0.0	0.0	0.0
45°	445.6	22.6	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	196.7	12.2	0.0	0.0	0.0	0.0	0.0	0.0
50°	66.1	5.2	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	33.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	15.7	0.0	0.0	1.7	0.0	0.0	0.0	0.0
57.5°	3.5	0.0	0.0	1.7	0.0	0.0	0.0	0.0
60°	0.0	0.0	1.7	3.5	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	1.7	3.5	1.7	0.0	0.0	0.0
65°	0.0	0.0	3.5	3.5	1.7	0.0	0.0	0.0
67.5°	0.0	1.7	3.5	5.2	1.7	0.0	0.0	0.0
70°	0.0	1.7	3.5	5.2	1.7	0.0	0.0	0.0
72.5°	0.0	1.7	3.5	5.2	1.7	0.0	0.0	0.0
75°	0.0	1.7	3.5	5.2	1.7	0.0	0.0	0.0
77.5°	0.0	1.7	3.5	5.2	1.7	0.0	0.0	0.0
80°	0.0	1.7	3.5	5.2	1.7	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	1.7	3.5	5.2	1.7	0.0	0.0	0.0
85°	0.0	1.7	3.5	5.2	1.7	0.0	0.0	0.0
87.5°	0.0	1.7	3.5	5.2	1.7	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)