

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: P1317293

Luminaire Tested: P3SQAS17R409830DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1317293
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-52)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS17R409830DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R40 optic, 3000K CCT AND, 98CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

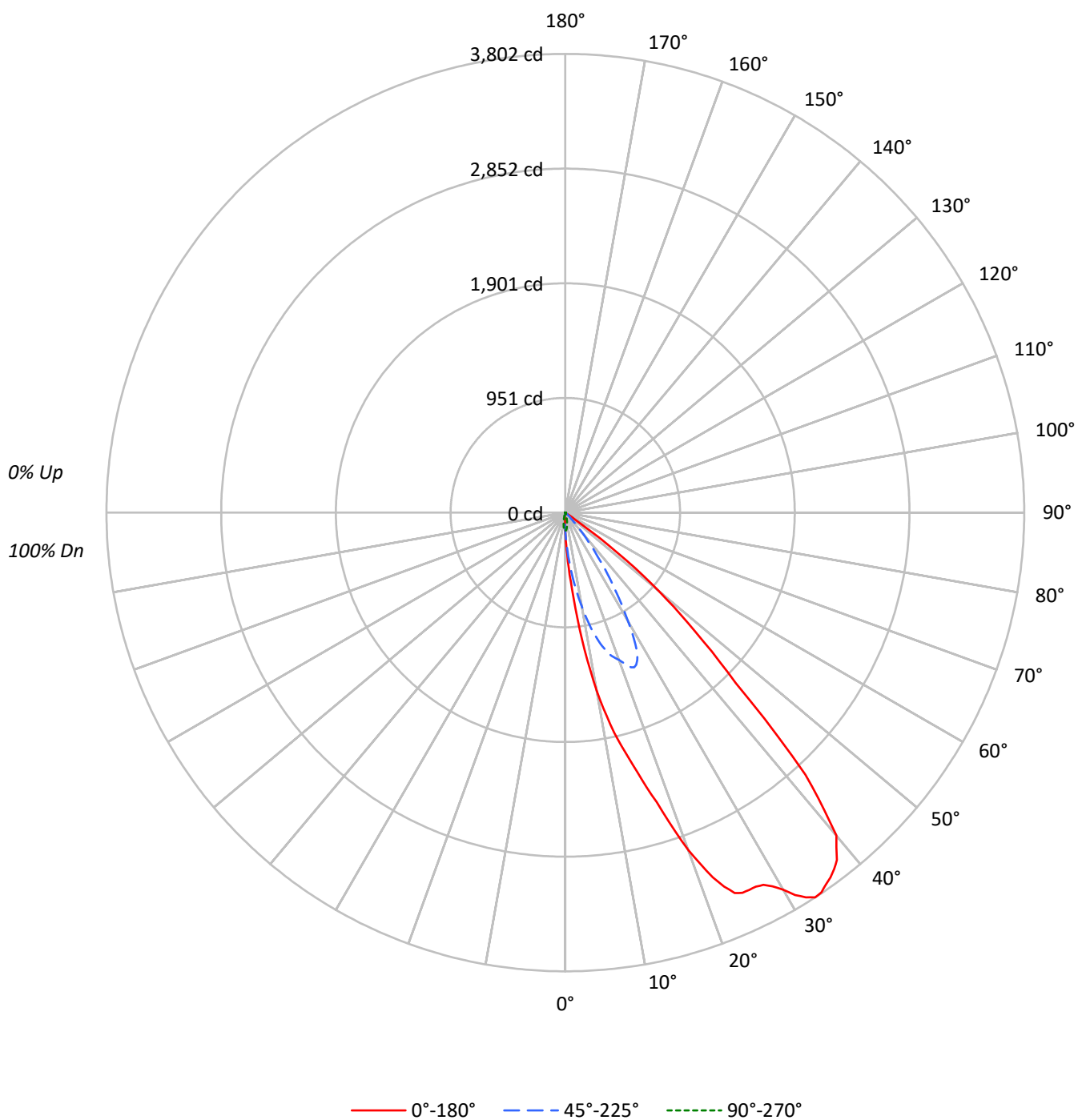
Lumens per Lamp: N/A
Luminaire Lumens: 1276.1 lumens
Efficiency: N/A
Efficacy: 62.6 lumens/watt
Spacing Criteria (0/90/45): 2.56 / 0.36 / 1.23
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 20.4
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	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91		
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	83		
3	99	91	85	80	97	90	84	80	87	82	78	84	81	77	82	79	76	74		
4	92	83	77	72	90	82	76	71	80	74	70	78	73	69	76	72	68	67		
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	60		
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54		
7	75	64	57	52	74	63	56	51	62	56	51	60	55	51	59	54	50	49		
8	70	59	51	47	69	58	51	46	57	51	46	56	50	46	55	50	46	44		
9	66	54	47	42	64	54	47	42	52	46	42	51	46	42	51	45	42	40		
10	62	50	43	38	60	49	43	38	49	42	38	48	42	38	47	42	38	36		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	25696	25696	25696	25696	25696
5°	109088	74356	22544	4063	2040
10°	262232	138312	13973	420	0
15°	385944	200924	5866	0	0
20°	545538	238203	2163	0	0
25°	660761	264384	0	0	0
30°	717427	206820	0	0	0
35°	791089	121059	0	0	0
40°	785186	49146	0	0	0
45°	486267	14321	0	0	0
50°	270771	322	0	0	0
55°	26453	0	0	0	0
60°	0	0	413	0	0
65°	0	0	489	0	0
70°	0	604	1209	0	0
75°	0	799	1597	0	0
80°	0	1190	2380	0	0
85°	0	2371	4742	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 5°

Vertical Angle: 45°

Luminance: 488556 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.0	2.2
10°-20°	164.5	12.9
20°-30°	375.4	29.4
30°-40°	443.3	34.7
40°-50°	236.8	18.6
50°-60°	25.7	2.0
60°-70°	0.5	0.0
70°-80°	0.9	0.1
80°-90°	0.9	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°	567.9	44.5
0°-40°	1011.2	79.2
0°-60°	1273.8	99.8
0°-90°	1276.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1276.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	149	149	149	149	149	
5°	631	430	130	24	12	89
15°	2165	1127	33	0	0	643
25°	3477	1391	0	0	0	1579
35°	3763	576	0	0	0	2324
45°	1996	59	0	0	0	1646
55°	88	0	0	0	0	247
65°	0	0	1	0	0	0
75°	0	1	2	0	0	0
85°	0	1	2	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°	149.2	149.2	149.2	149.2	149.2	149.2	149.2	149.2	149.2	149.2	149.2
2.5°	347.8	340.8	345.5	336.1	336.1	314.9	316.1	298.5	272.6	208.0	148.1
5°	631.0	659.2	636.9	607.5	591.1	569.9	541.7	512.4	430.1	259.7	130.4
7.5°	1056.4	1054.1	1016.5	984.8	948.3	891.9	839.0	767.4	612.2	297.3	108.1
10°	1499.5	1491.2	1448.9	1421.9	1352.6	1271.5	1163.4	1048.2	790.9	310.2	79.9
12.5°	1868.4	1857.9	1822.6	1776.8	1700.4	1598.2	1481.8	1330.2	978.9	296.1	51.7
15°	2164.6	2162.2	2128.1	2065.9	1986.0	1886.1	1754.5	1572.3	1126.9	259.7	32.9
17.5°	2515.9	2530.0	2468.9	2402.0	2286.8	2147.0	1986.0	1778.0	1236.2	215.0	21.2
20°	2976.6	2956.6	2900.2	2802.7	2692.2	2524.2	2296.2	1998.9	1299.7	166.9	11.8
21°	3117.6	3109.4	3050.6	2960.1	2837.9	2667.5	2432.5	2111.7	1329.1	149.2	9.4
22°	3261.0	3246.9	3201.0	3112.9	2997.7	2805.0	2546.5	2228.0	1366.7	130.4	5.9
23°	3367.9	3362.0	3326.8	3239.8	3121.1	2934.3	2669.9	2336.1	1392.5	112.8	3.5
24°	3450.2	3443.1	3407.9	3342.1	3239.8	3044.7	2794.4	2452.5	1403.1	97.5	1.2
25°	3477.2	3480.7	3459.6	3407.9	3322.1	3127.0	2887.3	2544.1	1391.3	83.4	0.0
26°	3478.4	3488.9	3473.7	3444.3	3373.8	3192.8	2974.2	2598.2	1360.8	70.5	0.0
27°	3478.4	3488.9	3473.7	3451.3	3382.0	3230.4	3021.2	2604.1	1313.8	59.9	0.0
28°	3494.8	3500.7	3480.7	3453.7	3378.5	3242.2	3034.2	2568.8	1238.6	51.7	0.0
29°	3540.6	3534.8	3501.9	3465.4	3375.0	3242.2	2995.4	2501.8	1144.6	43.5	0.0
30°	3607.6	3607.6	3555.9	3498.3	3391.4	3241.0	2933.1	2380.8	1040.0	35.3	0.0
31°	3698.1	3689.9	3638.2	3552.4	3426.7	3241.0	2841.4	2246.8	943.6	30.6	0.0
32°	3759.2	3754.5	3705.2	3604.1	3484.2	3241.0	2742.7	2098.8	839.0	24.7	0.0
33°	3801.5	3792.1	3735.7	3631.1	3519.5	3224.5	2632.3	1940.1	745.0	20.0	0.0
34°	3795.6	3793.3	3734.5	3626.4	3512.4	3156.4	2504.2	1763.9	658.1	16.5	0.0
35°	3762.7	3762.7	3691.1	3579.4	3461.9	3056.5	2377.3	1613.4	575.8	11.8	0.0
36°	3738.1	3728.7	3647.6	3523.0	3377.3	2899.0	2189.3	1461.9	487.7	9.4	0.0
37°	3701.6	3684.0	3593.5	3459.6	3257.4	2728.6	1991.8	1326.7	412.5	5.9	0.0
38°	3654.6	3627.6	3517.1	3385.5	3125.8	2532.4	1790.9	1175.1	343.1	3.5	0.0
39°	3568.9	3546.5	3432.5	3290.3	2968.4	2325.6	1595.8	1032.9	277.3	1.2	0.0
40°	3492.5	3453.7	3324.4	3161.1	2783.9	2091.7	1401.9	893.1	218.6	0.0	0.0
42.5°	2944.9	2903.7	2874.4	2712.2	2217.5	1501.8	978.9	572.3	114.0	0.0	0.0
45°	1996.5	2005.9	1914.3	1805.0	1463.0	978.9	612.2	318.5	58.8	0.0	0.0
47.5°	1456.0	1431.3	1306.7	1099.9	857.8	572.3	319.6	153.9	23.5	0.0	0.0
50°	1010.6	963.6	850.8	695.7	466.5	272.6	141.0	71.7	1.2	0.0	0.0
52.5°	548.8	515.9	437.1	317.3	193.9	104.6	56.4	29.4	0.0	0.0	0.0
55°	88.1	61.1	63.5	54.1	42.3	30.6	17.6	3.5	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0	1.2	1.2
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	2.4
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	2.4	2.4
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	2.4	2.4
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	2.4	2.4
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	2.4	2.4
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	2.4	2.4



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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	1.2	1.2	2.4	2.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	2.4	2.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	2.4	2.4
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°	149.2	149.2	149.2	149.2
2.5°	99.9	68.2	51.7	44.7
5°	57.6	23.5	12.9	11.8
7.5°	28.2	8.2	4.7	4.7
10°	11.8	2.4	0.0	0.0
12.5°	3.5	0.0	0.0	0.0
15°	0.0	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°	1.2	0.0	0.0	0.0
67.5°	1.2	0.0	0.0	0.0
70°	1.2	0.0	0.0	0.0
72.5°	1.2	0.0	0.0	0.0
75°	1.2	0.0	0.0	0.0
77.5°	1.2	0.0	0.0	0.0
80°	1.2	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
82.5°	1.2	0.0	0.0	0.0
85°	1.2	0.0	0.0	0.0
87.5°	1.2	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)