

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: P1316563

Luminaire Tested: P3SQAS20R409827D010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1316563
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: P3SQAS20R409827D010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R40 optic, 2700K CCT AND, 98CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

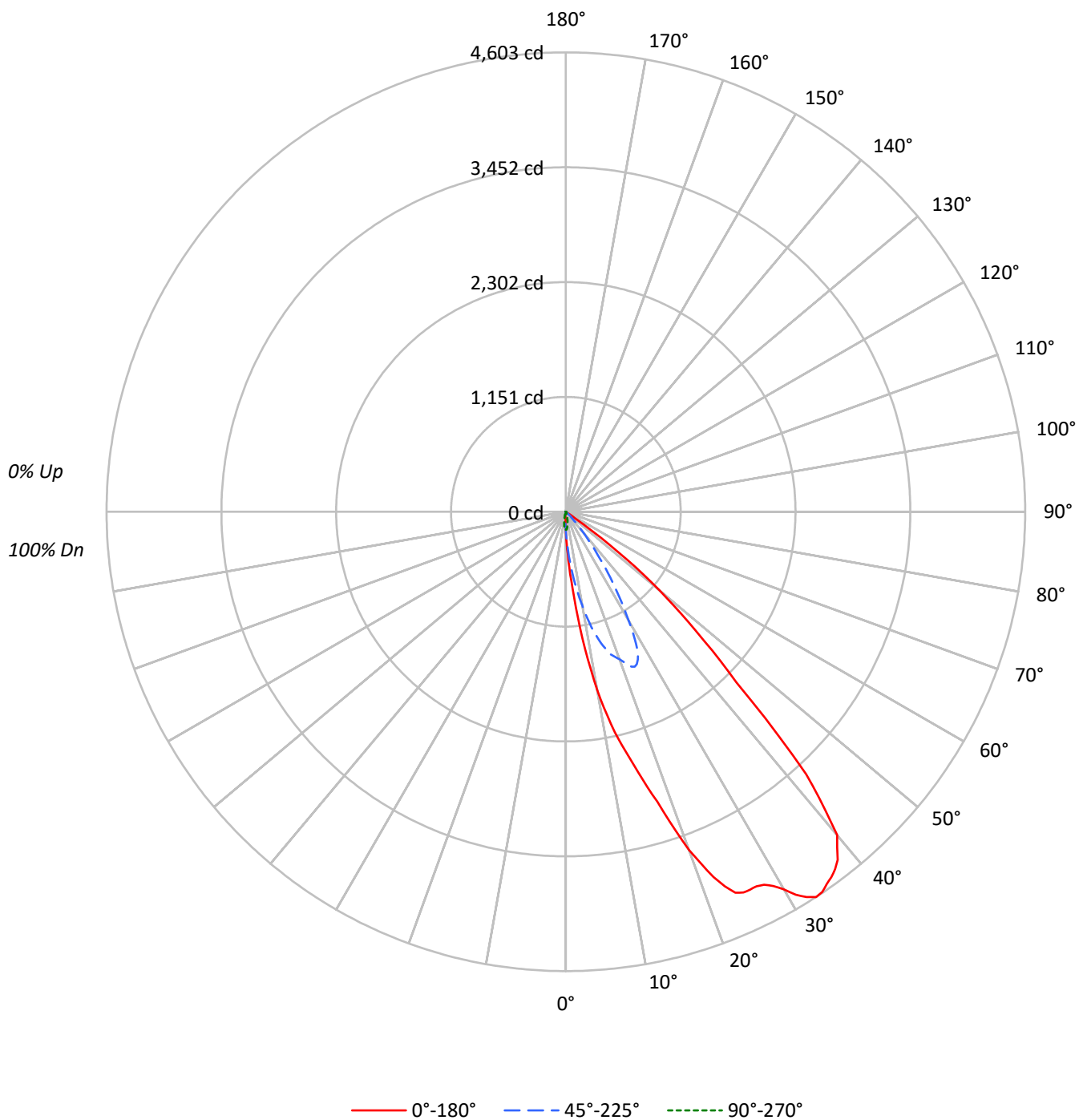
Lumens per Lamp: N/A
Luminaire Lumens: 1545.0 lumens
Efficiency: N/A
Efficacy: 56.4 lumens/watt
Spacing Criteria (0/90/45): 2.56 / 0.36 / 1.23
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	31121	31121	31121	31121	31121
5°	132098	90036	27298	4927	2455
10°	317511	167465	16928	490	0
15°	467301	243288	7096	0	0
20°	660543	288421	2603	0	0
25°	800050	320138	0	0	0
30°	868685	250412	0	0	0
35°	957876	146583	0	0	0
40°	950699	59510	0	0	0
45°	588781	17317	0	0	0
50°	327867	375	0	0	0
55°	32038	0	0	0	0
60°	0	0	482	0	0
65°	0	0	571	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: 5°

Vertical Angle: 45°

Luminance: 591558 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.9	2.2
10°-20°	199.1	12.9
20°-30°	454.6	29.4
30°-40°	536.8	34.7
40°-50°	286.8	18.6
50°-60°	31.2	2.0
60°-70°	0.6	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°	687.6	44.5
0°-40°	1224.3	79.2
0°-60°	1542.3	99.8
0°-90°	1545.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1545.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	181	181	181	181	181	
5°	764	521	158	28	14	107
15°	2621	1364	40	0	0	779
25°	4210	1685	0	0	0	1912
35°	4556	697	0	0	0	2814
45°	2417	71	0	0	0	1993
55°	107	0	0	0	0	299
65°	0	0	1	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°	180.7	180.7	180.7	180.7	180.7	180.7	180.7	180.7	180.7	180.7	180.7
2.5°	421.2	412.6	418.3	406.9	406.9	381.3	382.7	361.4	330.1	251.8	179.3
5°	764.1	798.2	771.2	735.6	715.7	690.1	655.9	620.4	520.8	314.5	157.9
7.5°	1279.1	1276.3	1230.8	1192.4	1148.2	1079.9	1015.9	929.1	741.3	360.0	130.9
10°	1815.6	1805.6	1754.4	1721.7	1637.7	1539.5	1408.6	1269.2	957.6	375.6	96.8
12.5°	2262.3	2249.5	2206.9	2151.4	2058.9	1935.1	1794.2	1610.7	1185.2	358.6	62.6
15°	2620.9	2618.1	2576.8	2501.4	2404.6	2283.7	2124.3	1903.8	1364.5	314.5	39.8
17.5°	3046.3	3063.4	2989.4	2908.3	2768.9	2599.6	2404.6	2152.8	1496.8	260.4	25.6
20°	3604.1	3579.9	3511.6	3393.5	3259.8	3056.3	2780.3	2420.3	1573.7	202.0	14.2
21°	3774.8	3764.9	3693.7	3584.2	3436.2	3229.9	2945.3	2556.9	1609.3	180.7	11.4
22°	3948.4	3931.4	3875.9	3769.1	3629.7	3396.4	3083.3	2697.7	1654.8	157.9	7.1
23°	4077.9	4070.8	4028.1	3922.8	3779.1	3552.9	3232.7	2828.6	1686.1	136.6	4.3
24°	4177.5	4169.0	4126.3	4046.6	3922.8	3686.6	3383.6	2969.5	1698.9	118.1	1.4
25°	4210.2	4214.5	4188.9	4126.3	4022.4	3786.2	3496.0	3080.5	1684.7	101.0	0.0
26°	4211.7	4224.5	4206.0	4170.4	4085.0	3865.9	3601.3	3145.9	1647.7	85.4	0.0
27°	4211.7	4224.5	4206.0	4178.9	4095.0	3911.4	3658.2	3153.1	1590.8	72.6	0.0
28°	4231.6	4238.7	4214.5	4181.8	4090.7	3925.7	3673.8	3110.4	1499.7	62.6	0.0
29°	4287.1	4280.0	4240.1	4196.0	4086.4	3925.7	3626.9	3029.3	1385.9	52.6	0.0
30°	4368.2	4368.2	4305.6	4235.8	4106.4	3924.2	3551.5	2882.7	1259.2	42.7	0.0
31°	4477.7	4467.8	4405.2	4301.3	4149.1	3924.2	3440.5	2720.5	1142.6	37.0	0.0
32°	4551.7	4546.0	4486.3	4363.9	4218.8	3924.2	3320.9	2541.2	1015.9	29.9	0.0
33°	4602.9	4591.6	4523.3	4396.6	4261.5	3904.3	3187.2	2349.1	902.1	24.2	0.0
34°	4595.8	4593.0	4521.8	4390.9	4252.9	3821.8	3032.1	2135.7	796.8	19.9	0.0
35°	4556.0	4556.0	4469.2	4334.0	4191.7	3700.9	2878.4	1953.6	697.2	14.2	0.0
36°	4526.1	4514.7	4416.5	4265.7	4089.3	3510.2	2650.8	1770.0	590.5	11.4	0.0
37°	4482.0	4460.7	4351.1	4188.9	3944.2	3303.9	2411.7	1606.4	499.4	7.1	0.0
38°	4425.1	4392.4	4258.6	4099.3	3784.8	3066.3	2168.4	1422.9	415.5	4.3	0.0
39°	4321.2	4294.2	4156.2	3984.0	3594.1	2815.8	1932.2	1250.7	335.8	1.4	0.0
40°	4228.7	4181.8	4025.3	3827.5	3370.7	2532.7	1697.5	1081.4	264.7	0.0	0.0
42.5°	3565.7	3515.9	3480.3	3284.0	2684.9	1818.4	1185.2	692.9	138.0	0.0	0.0
45°	2417.4	2428.8	2317.8	2185.5	1771.5	1185.2	741.3	385.6	71.1	0.0	0.0
47.5°	1762.9	1733.0	1582.2	1331.8	1038.7	692.9	387.0	186.4	28.5	0.0	0.0
50°	1223.7	1166.7	1030.1	842.3	564.9	330.1	170.7	86.8	1.4	0.0	0.0
52.5°	664.5	624.6	529.3	384.2	234.8	126.6	68.3	35.6	0.0	0.0	0.0
55°	106.7	74.0	76.8	65.5	51.2	37.0	21.3	4.3	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0	1.4	0.0	0.0	0.0	1.4	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	1.4
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	1.4	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	1.4	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	1.4	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	1.4	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°	180.7	180.7	180.7	180.7
2.5°	120.9	82.5	62.6	54.1
5°	69.7	28.5	15.7	14.2
7.5°	34.1	10.0	5.7	5.7
10°	14.2	2.8	0.0	0.0
12.5°	4.3	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°	1.4	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)