

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: P1313742

Luminaire Tested: P3SQAS20R409730D010 E3SQCA301MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1313742
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: P3SQAS20R409730D010 E3SQCA301MB
Description: 3in Adjustable LED luminaire with, R40 optic, 3000K CCT AND, 97CRI , E3SQCA301MB TRIM
Light Source: -
Ballast/Driver: -

Summary

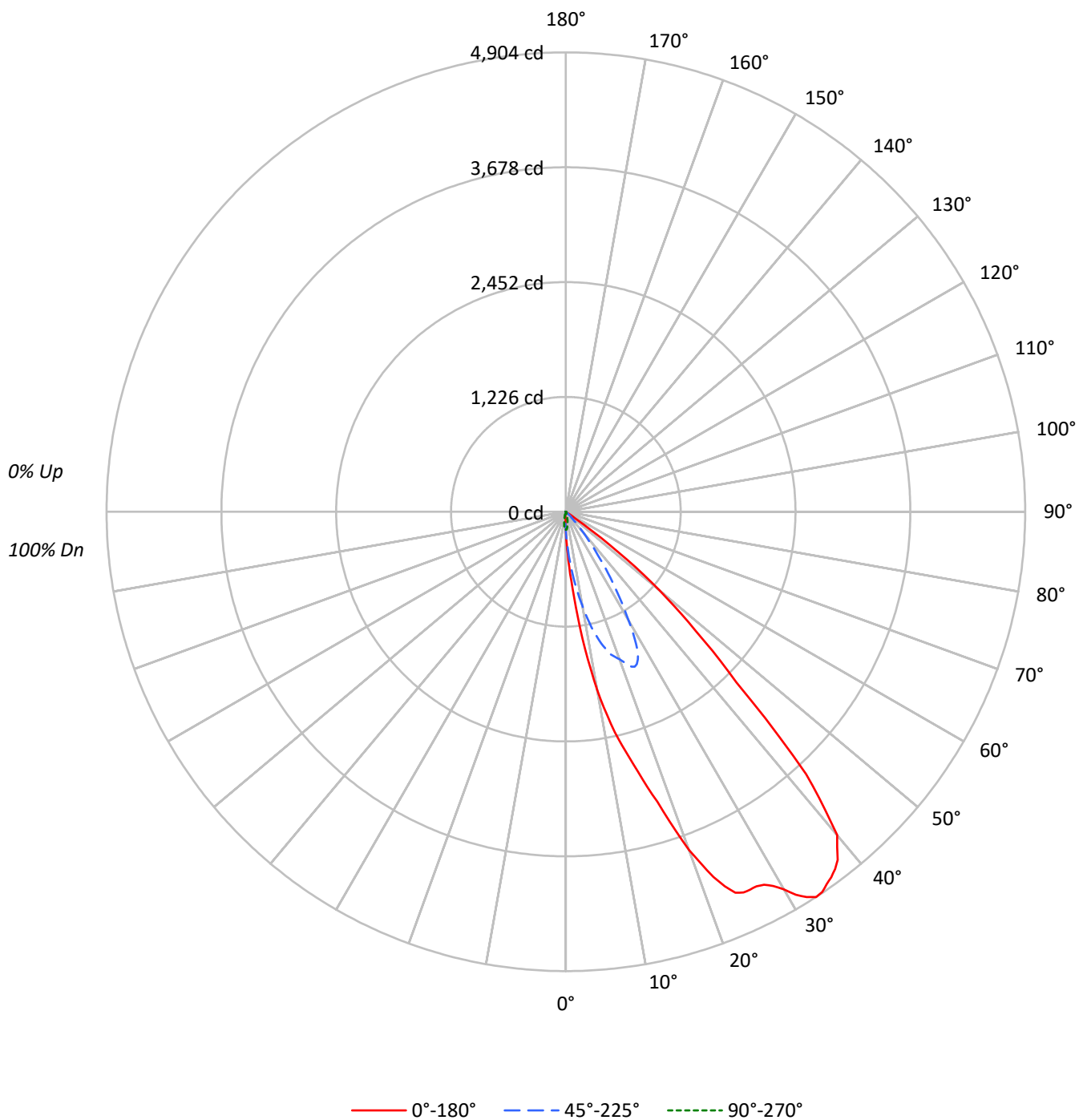
Lumens per Lamp: N/A
Luminaire Lumens: 1646.0 lumens
Efficiency: N/A
Efficacy: 57.2 lumens/watt
Spacing Criteria (0/90/45): 2.56 / 0.36 / 1.23
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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
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°	33153	33153	33153	33153	33153
5°	140725	95914	29096	5238	2628
10°	338269	178412	18030	525	0
15°	497844	259192	7560	0	0
20°	703723	307280	2786	0	0
25°	852365	341060	0	0	0
30°	925461	266778	0	0	0
35°	1020487	156170	0	0	0
40°	1012862	63399	0	0	0
45°	627288	18462	0	0	0
50°	349301	402	0	0	0
55°	34140	0	0	0	0
60°	0	0	517	0	0
65°	0	0	611	0	0
70°	0	755	1511	0	0
75°	0	998	1996	0	0
80°	0	1488	2975	0	0
85°	0	2964	5928	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 5°

Vertical Angle: 45°

Luminance: 630235 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.1	2.2
10°-20°	212.2	12.9
20°-30°	484.3	29.4
30°-40°	571.8	34.7
40°-50°	305.5	18.6
50°-60°	33.2	2.0
60°-70°	0.7	0.0
70°-80°	1.2	0.1
80°-90°	1.1	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°	732.5	44.5
0°-40°	1304.4	79.2
0°-60°	1643.1	99.8
0°-90°	1646.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1646.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	192	192	192	192	192	
5°	814	555	168	30	15	114
15°	2792	1454	42	0	0	829
25°	4486	1795	0	0	0	2037
35°	4854	743	0	0	0	2998
45°	2576	76	0	0	0	2124
55°	114	0	0	0	0	319
65°	0	0	2	0	0	0
75°	0	2	3	0	0	0
85°	0	2	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°	192.5	192.5	192.5	192.5	192.5	192.5	192.5	192.5	192.5	192.5	192.5
2.5°	448.7	439.6	445.7	433.5	433.5	406.3	407.8	385.0	351.7	268.3	191.0
5°	814.0	850.4	821.6	783.7	762.5	735.2	698.8	660.9	554.8	335.0	168.3
7.5°	1362.8	1359.7	1311.2	1270.3	1223.3	1150.5	1082.3	989.9	789.8	383.5	139.5
10°	1934.3	1923.6	1869.1	1834.2	1744.8	1640.2	1500.7	1352.2	1020.2	400.2	103.1
12.5°	2410.2	2396.6	2351.1	2292.0	2193.5	2061.6	1911.5	1716.0	1262.7	382.0	66.7
15°	2792.2	2789.2	2745.2	2664.9	2561.8	2433.0	2263.2	2028.2	1453.7	335.0	42.4
17.5°	3245.5	3263.7	3184.8	3098.4	2949.9	2769.5	2561.8	2293.5	1594.7	277.4	27.3
20°	3839.7	3813.9	3741.2	3615.4	3472.9	3256.1	2962.0	2578.5	1676.6	215.3	15.2
21°	4021.6	4011.0	3935.2	3818.5	3660.8	3441.0	3137.9	2724.0	1714.5	192.5	12.1
22°	4206.5	4188.4	4129.2	4015.5	3867.0	3618.4	3284.9	2874.1	1763.0	168.3	7.6
23°	4344.5	4336.9	4291.4	4179.3	4026.2	3785.1	3444.1	3013.6	1796.3	145.5	4.5
24°	4450.6	4441.5	4396.0	4311.1	4179.3	3927.6	3604.7	3163.6	1810.0	125.8	1.5
25°	4485.5	4490.0	4462.7	4396.0	4285.4	4033.7	3724.5	3281.9	1794.8	107.6	0.0
26°	4487.0	4500.6	4480.9	4443.0	4352.1	4118.6	3836.7	3351.6	1755.4	91.0	0.0
27°	4487.0	4500.6	4480.9	4452.1	4362.7	4167.1	3897.3	3359.2	1694.7	77.3	0.0
28°	4508.2	4515.8	4490.0	4455.2	4358.1	4182.3	3914.0	3313.7	1597.7	66.7	0.0
29°	4567.3	4559.7	4517.3	4470.3	4353.6	4182.3	3864.0	3227.3	1476.5	56.1	0.0
30°	4653.7	4653.7	4587.0	4512.8	4374.8	4180.8	3783.6	3071.2	1341.5	45.5	0.0
31°	4770.5	4759.8	4693.1	4582.5	4420.3	4180.8	3665.4	2898.3	1217.2	39.4	0.0
32°	4849.3	4843.2	4779.5	4649.2	4494.6	4180.8	3538.0	2707.3	1082.3	31.8	0.0
33°	4903.8	4891.7	4819.0	4684.0	4540.0	4159.6	3395.6	2502.7	961.1	25.8	0.0
34°	4896.3	4893.2	4817.4	4678.0	4530.9	4071.6	3230.3	2275.3	848.9	21.2	0.0
35°	4853.8	4853.8	4761.4	4617.3	4465.8	3942.8	3066.6	2081.3	742.8	15.2	0.0
36°	4822.0	4809.9	4705.3	4544.6	4356.6	3739.7	2824.1	1885.7	629.1	12.1	0.0
37°	4775.0	4752.3	4635.5	4462.7	4202.0	3519.9	2569.4	1711.4	532.1	7.6	0.0
38°	4714.4	4679.5	4537.0	4367.2	4032.2	3266.7	2310.2	1515.9	442.6	4.5	0.0
39°	4603.7	4574.9	4427.9	4244.4	3829.1	2999.9	2058.6	1332.5	357.7	1.5	0.0
40°	4505.2	4455.2	4288.4	4077.7	3591.1	2698.3	1808.4	1152.1	282.0	0.0	0.0
42.5°	3798.8	3745.7	3707.8	3498.6	2860.5	1937.3	1262.7	738.2	147.0	0.0	0.0
45°	2575.5	2587.6	2469.4	2328.4	1887.3	1262.7	789.8	410.8	75.8	0.0	0.0
47.5°	1878.2	1846.3	1685.7	1418.9	1106.6	738.2	412.3	198.6	30.3	0.0	0.0
50°	1303.7	1243.0	1097.5	897.4	601.8	351.7	181.9	92.5	1.5	0.0	0.0
52.5°	707.9	665.5	563.9	409.3	250.1	134.9	72.8	37.9	0.0	0.0	0.0
55°	113.7	78.8	81.9	69.7	54.6	39.4	22.7	4.5	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0	1.5	0.0	0.0	0.0	1.5	1.5
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	3.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	3.0	3.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	3.0	3.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	3.0	3.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	3.0	3.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	3.0	3.0



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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	1.5	1.5	3.0	3.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	3.0	3.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	3.0	3.0
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):

	112.5°	135°	157.5°	180°
0°	192.5	192.5	192.5	192.5
2.5°	128.8	87.9	66.7	57.6
5°	74.3	30.3	16.7	15.2
7.5°	36.4	10.6	6.1	6.1
10°	15.2	3.0	0.0	0.0
12.5°	4.5	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°	1.5	0.0	0.0	0.0
67.5°	1.5	0.0	0.0	0.0
70°	1.5	0.0	0.0	0.0
72.5°	1.5	0.0	0.0	0.0
75°	1.5	0.0	0.0	0.0
77.5°	1.5	0.0	0.0	0.0
80°	1.5	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
82.5°	1.5	0.0	0.0	0.0
85°	1.5	0.0	0.0	0.0
87.5°	1.5	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)