

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: P1313695

Luminaire Tested: P3SQAS20R259730D010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1313695
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-75)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS20R259730D010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R25 optic, 3000K CCT AND, 97CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

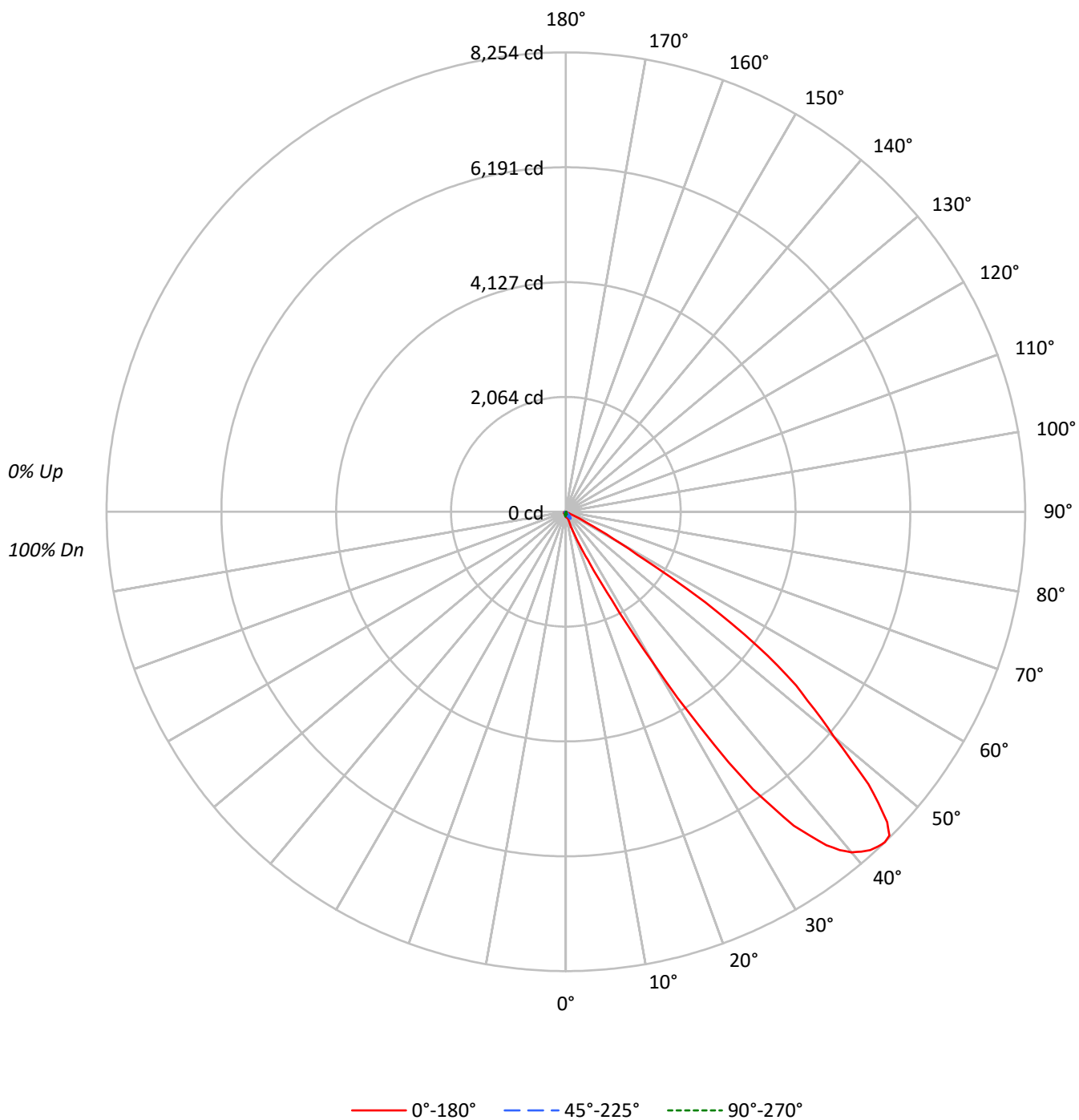
Lumens per Lamp: N/A
Luminaire Lumens: 1721.0 lumens
Efficiency: N/A
Efficacy: 59.8 lumens/watt
Spacing Criteria (0/90/45): 3.65 / 0.61 / 1.37
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	110	106	102	99	108	104	101	97	100	97	94	96	94	92	92	91	89	87		
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73		
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61		
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51		
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42		
6	68	55	45	39	66	54	45	39	52	44	38	50	43	38	48	42	37	35		
7	62	48	39	32	60	47	39	32	46	38	32	44	37	32	43	36	32	29		
8	57	43	34	27	55	42	33	27	40	33	27	39	32	27	38	32	27	25		
9	52	38	29	23	51	37	29	23	36	28	23	35	28	23	34	27	23	21		
10	48	34	25	20	47	33	25	20	32	25	20	31	24	19	30	24	19	17		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	15121	15121	15121	15121	15121
5°	17288	16493	14660	13087	12828
10°	17208	15634	12451	10860	10860
15°	19167	13497	9717	9182	9717
20°	67720	13324	7496	7771	8596
25°	194834	16988	6043	7202	8342
30°	621614	26210	4813	6921	8432
35°	1361484	30885	4142	6686	8599
40°	1796025	27923	3395	6812	9195
45°	2002888	19558	3312	7380	9962
50°	1685955	10155	3242	7716	10958
55°	1260496	4084	3183	8648	12281
60°	390188	1033	3134	9403	13571
65°	33335	0	3708	9862	14793
70°	2266	755	3827	11430	16768
75°	1996	998	5057	12111	19164
80°	1488	1488	7538	13488	22514
85°	2964	2964	12054	15018	23910

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2002888 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.9	0.5
10°-20°	20.3	1.2
20°-30°	95.2	5.5
30°-40°	458.4	26.6
40°-50°	718.6	41.8
50°-60°	368.4	21.4
60°-70°	34.7	2.0
70°-80°	11.7	0.7
80°-90°	5.9	0.3
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°	123.4	7.2
0°-40°	581.8	33.8
0°-60°	1668.7	97.0
0°-90°	1721.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1721.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	88	88	88	88	88	
5°	100	95	85	76	74	9
15°	108	76	54	52	54	45
25°	1025	89	32	38	44	636
35°	6476	147	20	32	41	3931
45°	8223	80	14	30	41	6017
55°	4198	14	11	29	41	3495
65°	82	0	9	24	36	256
75°	3	2	8	18	29	4
85°	2	2	6	8	12	1
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8
2.5°	95.4	95.4	95.4	95.4	95.4	95.4	93.9	93.9	95.4	93.9	93.9
5°	100.0	100.0	100.0	100.0	100.0	100.0	100.0	98.4	98.4	98.4	95.4
7.5°	101.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	98.4	98.4	93.9
10°	98.4	98.4	98.4	98.4	96.9	96.9	96.9	95.4	95.4	95.4	89.4
12.5°	98.4	98.4	98.4	98.4	96.9	96.9	95.4	95.4	93.9	92.4	81.8
15°	107.5	107.5	107.5	106.0	104.5	103.0	101.5	100.0	98.4	95.4	75.7
17.5°	157.5	153.0	151.4	145.4	137.8	130.2	124.2	118.1	112.1	107.5	72.7
20°	369.5	368.0	360.4	342.3	322.6	299.9	277.1	251.4	215.1	190.8	72.7
22.5°	640.6	631.5	617.9	604.3	569.4	528.5	486.1	437.7	390.7	340.7	77.2
25°	1025.3	1046.5	1001.0	964.7	904.1	829.9	749.6	683.0	598.2	519.5	89.4
27.5°	1782.5	1796.1	1706.8	1588.6	1447.8	1291.8	1140.4	1026.8	884.4	754.2	112.1
30°	3125.8	3139.4	2989.5	2738.1	2447.3	2191.4	1844.6	1540.2	1260.0	1043.4	131.8
31°	3901.2	3795.2	3621.0	3377.2	3009.2	2623.0	2206.5	1838.5	1484.2	1199.4	137.8
32°	4575.1	4566.0	4363.1	3993.6	3624.1	3147.0	2630.6	2150.5	1715.9	1356.9	142.4
33°	5370.2	5309.6	5023.4	4675.1	4185.9	3705.8	3039.5	2491.3	1953.6	1532.6	145.4
34°	6007.8	5844.2	5726.1	5327.8	4811.4	4199.5	3486.2	2851.7	2250.5	1702.2	146.9
35°	6475.7	6440.9	6210.7	5839.7	5314.2	4688.7	3967.8	3225.8	2498.8	1899.1	146.9
36°	6971.0	6863.4	6639.3	6303.1	5791.2	5144.6	4335.8	3549.8	2788.1	2076.3	145.4
37°	7281.4	7217.8	6995.2	6648.4	6147.1	5529.2	4747.8	3892.1	3018.3	2253.5	142.4
38°	7601.0	7472.2	7252.7	6921.0	6428.8	5848.8	5046.1	4155.6	3230.3	2409.5	137.8
39°	7822.1	7688.8	7464.7	7134.5	6652.9	6077.4	5282.4	4379.8	3415.1	2526.1	131.8
40°	7988.7	7859.9	7632.8	7293.5	6818.0	6257.7	5479.2	4578.2	3569.5	2627.6	124.2
41°	8091.7	7972.0	7746.4	7408.6	6931.6	6360.6	5608.0	4706.9	3674.0	2695.7	116.6
42°	8178.0	8055.3	7825.1	7479.8	7001.3	6448.5	5686.7	4788.7	3745.2	2730.5	110.6
43°	8226.4	8103.8	7879.6	7526.8	7043.7	6489.4	5729.1	4826.5	3769.4	2726.0	100.0
44°	8253.7	8126.5	7900.8	7548.0	7061.8	6500.0	5732.2	4818.9	3752.8	2689.6	90.9
45°	8223.4	8097.7	7879.6	7526.8	7030.0	6466.7	5701.9	4778.1	3689.2	2618.5	80.3
46°	8026.5	7929.6	7729.7	7405.6	6930.1	6381.8	5624.6	4699.3	3590.7	2530.6	68.1
47°	7679.7	7602.5	7408.6	7167.8	6737.7	6225.9	5482.3	4549.4	3452.9	2398.9	54.5
48°	7317.8	7204.2	7024.0	6777.1	6413.7	5945.7	5247.5	4329.8	3243.9	2226.2	48.5
49°	6783.2	6716.5	6557.5	6281.9	5980.5	5568.6	4915.9	4048.1	2988.0	2038.4	42.4
50°	6292.5	6247.1	6024.4	5821.5	5502.0	5117.3	4466.1	3677.1	2670.0	1805.2	37.9
51°	5909.3	5854.8	5694.3	5441.4	5100.6	4653.9	4040.5	3195.5	2305.0	1528.1	30.3
52°	5509.5	5479.2	5336.9	5076.4	4741.7	4296.5	3627.1	2786.6	1950.6	1291.8	24.2
53°	5182.4	5138.5	4964.3	4732.6	4370.7	3910.3	3178.8	2406.4	1652.3	1085.9	21.2
54°	4705.4	4687.2	4575.1	4332.8	3940.6	3439.3	2772.9	2026.3	1378.1	920.8	18.2
55°	4198.0	4137.4	4023.9	3831.5	3471.1	3003.1	2303.5	1679.5	1114.6	775.4	13.6
56°	3580.1	3577.1	3374.2	3213.6	2894.1	2397.4	1840.0	1311.5	905.6	646.7	12.1
57°	2989.5	2894.1	2698.7	2539.7	2195.9	1818.8	1366.0	982.9	708.8	524.0	9.1
58°	2211.1	2161.1	2109.6	1876.4	1558.4	1288.8	975.3	690.6	524.0	399.8	6.1
59°	1500.8	1499.3	1438.7	1261.5	1078.3	802.7	608.8	469.5	360.4	293.8	4.5
60°	1132.8	1105.5	984.4	867.8	678.5	507.3	360.4	277.1	224.1	189.3	3.0
62.5°	396.8	411.9	362.0	299.9	228.7	187.8	143.9	116.6	95.4	77.2	0.0
65°	81.8	89.4	77.2	72.7	57.5	50.0	43.9	37.9	31.8	27.3	0.0



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CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
67.5°	10.6	9.1	9.1	9.1	7.6	7.6	7.6	7.6	6.1	6.1	1.5
70°	4.5	4.5	4.5	4.5	4.5	4.5	3.0	3.0	3.0	3.0	1.5
72.5°	4.5	4.5	4.5	3.0	3.0	3.0	3.0	3.0	3.0	1.5	1.5
75°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	1.5	1.5	1.5	1.5
77.5°	3.0	3.0	3.0	3.0	3.0	3.0	1.5	1.5	1.5	1.5	1.5
80°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
82.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	3.0
85°	1.5	1.5	1.5	0.0	0.0	1.5	1.5	1.5	1.5	1.5	1.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5
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):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	87.8	87.8	87.8	87.8	87.8	87.8
2.5°	92.4	89.4	84.8	83.3	81.8	81.8
5°	90.9	84.8	80.3	75.7	74.2	74.2
7.5°	86.3	78.8	72.7	69.7	68.1	66.6
10°	81.8	71.2	65.1	62.1	62.1	62.1
12.5°	72.7	63.6	57.5	56.0	57.5	57.5
15°	65.1	54.5	51.5	51.5	53.0	54.5
17.5°	56.0	48.5	45.4	46.9	48.5	50.0
20°	50.0	40.9	40.9	42.4	46.9	46.9
22.5°	43.9	36.3	36.3	40.9	43.9	45.4
25°	39.4	31.8	33.3	37.9	42.4	43.9
27.5°	33.3	27.3	30.3	36.3	40.9	42.4
30°	28.8	24.2	28.8	34.8	39.4	42.4
31°	27.3	22.7	28.8	33.3	39.4	42.4
32°	24.2	22.7	27.3	33.3	39.4	40.9
33°	22.7	21.2	27.3	33.3	39.4	40.9
34°	21.2	19.7	25.7	33.3	39.4	40.9
35°	18.2	19.7	25.7	31.8	37.9	40.9
36°	16.7	18.2	25.7	31.8	37.9	40.9
37°	15.1	18.2	24.2	31.8	37.9	40.9
38°	13.6	16.7	24.2	31.8	37.9	40.9
39°	12.1	16.7	22.7	31.8	37.9	40.9
40°	10.6	15.1	22.7	30.3	37.9	40.9
41°	10.6	15.1	22.7	30.3	37.9	40.9
42°	9.1	15.1	22.7	30.3	37.9	40.9
43°	7.6	13.6	22.7	30.3	37.9	40.9
44°	6.1	13.6	21.2	30.3	37.9	40.9
45°	6.1	13.6	21.2	30.3	37.9	40.9
46°	4.5	12.1	21.2	30.3	37.9	40.9
47°	3.0	12.1	21.2	28.8	37.9	40.9
48°	3.0	12.1	21.2	28.8	37.9	40.9
49°	3.0	12.1	19.7	28.8	37.9	40.9
50°	3.0	12.1	19.7	28.8	37.9	40.9
51°	1.5	10.6	19.7	28.8	37.9	40.9
52°	1.5	10.6	19.7	28.8	37.9	42.4
53°	1.5	10.6	19.7	28.8	37.9	40.9
54°	1.5	10.6	18.2	28.8	37.9	40.9
55°	1.5	10.6	18.2	28.8	37.9	40.9
56°	1.5	9.1	18.2	27.3	37.9	40.9
57°	3.0	9.1	18.2	27.3	37.9	39.4
58°	3.0	9.1	18.2	27.3	36.3	39.4
59°	3.0	9.1	18.2	27.3	36.3	39.4
60°	3.0	9.1	16.7	27.3	36.3	39.4
62.5°	3.0	9.1	16.7	25.7	34.8	37.9
65°	3.0	9.1	15.1	24.2	34.8	36.3



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	3.0	7.6	15.1	22.7	33.3	34.8
70°	4.5	7.6	13.6	22.7	31.8	33.3
72.5°	4.5	7.6	13.6	19.7	28.8	31.8
75°	4.5	7.6	12.1	18.2	27.3	28.8
77.5°	4.5	7.6	10.6	16.7	24.2	25.7
80°	6.1	7.6	9.1	13.6	21.2	22.7
82.5°	6.1	7.6	7.6	10.6	16.7	18.2
85°	4.5	6.1	6.1	7.6	10.6	12.1
87.5°	4.5	6.1	4.5	3.0	6.1	6.1
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)