

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: P1318155

Luminaire Tested: P3SQAS17R359835DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1318155
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-77)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS17R359835DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R35 optic, 3500K CCT AND, 98CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

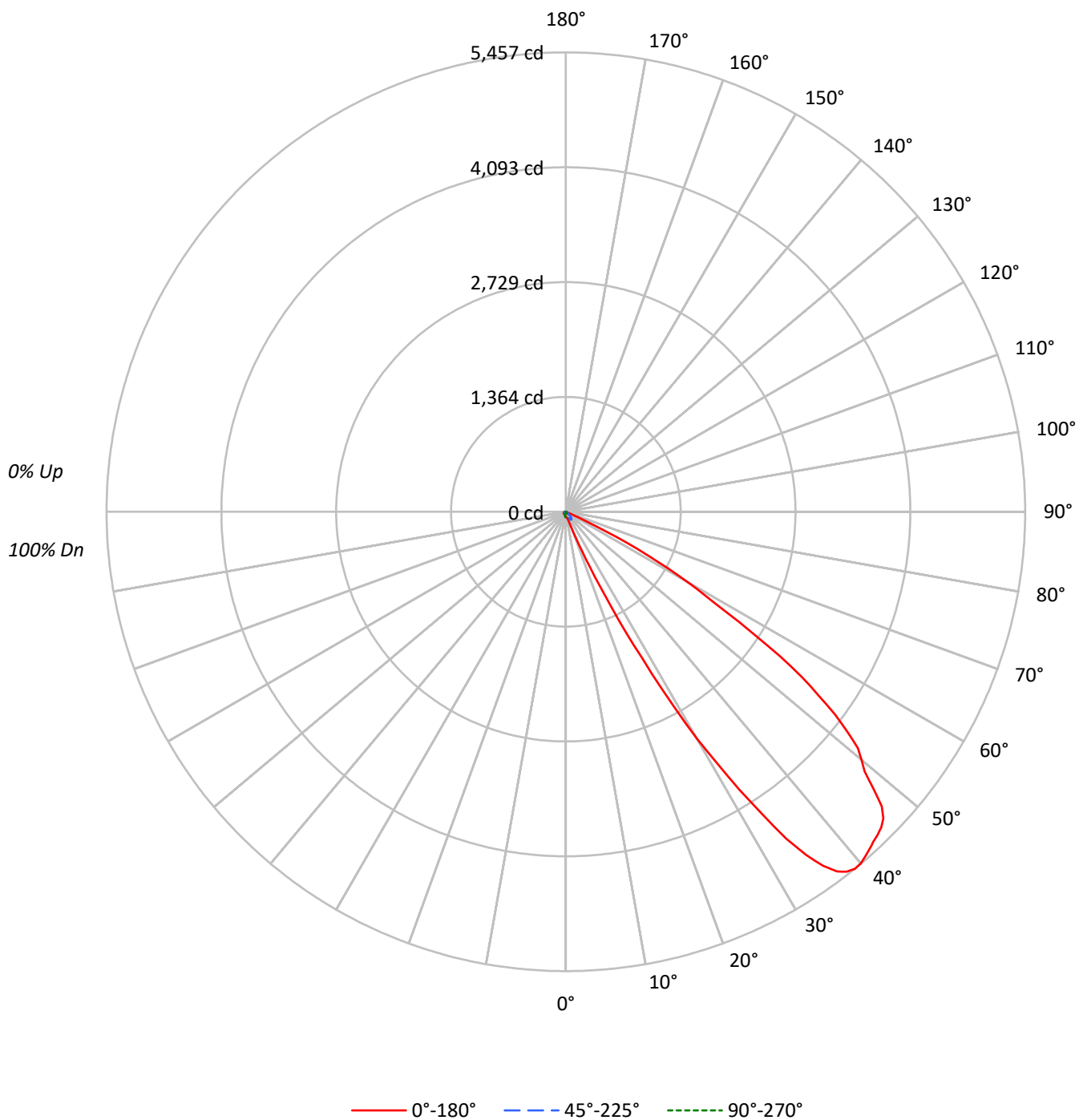
Lumens per Lamp: N/A
Luminaire Lumens: 1359.0 lumens
Efficiency: N/A
Efficacy: 66.6 lumens/watt
Spacing Criteria (0/90/45): 4.01 / 0.66 / 1.41
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	110	106	102	99	107	104	100	97	100	97	94	96	93	91	92	90	89	87		
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73		
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61		
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	52	50		
5	75	62	52	46	73	61	52	45	58	51	45	56	50	44	55	49	44	42		
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	35		
7	62	48	38	32	60	47	38	32	45	37	32	44	37	31	42	36	31	29		
8	57	42	33	27	55	41	33	27	40	32	27	39	32	26	38	31	26	24		
9	52	38	29	23	50	37	29	23	36	28	23	35	28	22	34	27	22	20		
10	48	34	25	19	46	33	25	19	32	25	19	31	24	19	30	24	19	17		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	10781	10781	10781	10781	10781
5°	11669	11445	10598	9543	9336
10°	12224	11157	9443	8149	8149
15°	17491	10930	7649	7007	7221
20°	43840	11693	6066	6066	6745
25°	203519	14917	4656	5587	6290
30°	618691	20245	3659	5131	6344
35°	1045633	23463	3091	4899	6181
40°	1225677	23179	2473	4969	6610
45°	1290793	16440	2095	5383	7161
50°	1228651	9860	1983	5600	7877
55°	1029565	4054	2222	6275	9218
60°	576360	861	2549	7199	10127
65°	99474	489	2486	7987	11492
70°	1863	604	3072	8661	12991
75°	1664	799	4059	9782	14706
80°	1190	1190	4860	10910	17059
85°	0	2371	9683	12054	19365

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 46°

Luminance: 1299941 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.6	0.4
10°-20°	16.0	1.2
20°-30°	83.4	6.1
30°-40°	360.1	26.5
40°-50°	513.7	37.8
50°-60°	318.2	23.4
60°-70°	48.4	3.6
70°-80°	9.0	0.7
80°-90°	4.5	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°	105.0	7.7
0°-40°	465.2	34.2
0°-60°	1297.0	95.4
0°-90°	1359.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1359.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	63	63	63	63	63	
5°	68	66	61	55	54	6
15°	98	61	43	39	40	35
25°	1071	78	24	29	33	641
35°	4973	112	15	23	29	2986
45°	5300	68	9	22	29	4004
55°	3429	14	7	21	31	2920
65°	244	1	6	20	28	499
75°	2	1	6	15	22	3
85°	0	1	5	6	10	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6
2.5°	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	62.6	61.3
5°	67.5	67.5	66.2	66.2	66.2	66.2	66.2	66.2	63.8	61.3	57.7
7.5°	68.7	68.7	67.5	67.5	67.5	67.5	66.2	65.0	62.6	57.7	54.0
10°	69.9	69.9	69.9	69.9	68.7	67.5	66.2	63.8	60.1	54.0	50.3
12.5°	78.5	78.5	77.3	74.8	72.4	69.9	67.5	62.6	55.2	49.1	45.4
15°	98.1	96.9	94.5	90.8	85.9	79.7	74.8	61.3	50.3	42.9	40.5
17.5°	137.4	134.9	131.3	119.0	108.0	96.9	87.1	61.3	45.4	38.0	35.6
20°	239.2	240.5	214.7	185.2	160.7	133.7	109.2	63.8	40.5	33.1	31.9
22.5°	499.3	479.7	418.3	347.2	265.0	204.9	154.6	69.9	35.6	28.2	28.2
25°	1071.0	996.2	847.7	640.4	451.5	320.2	224.5	78.5	31.9	24.5	25.8
27.5°	1955.5	1888.0	1589.9	1197.3	795.0	483.4	304.2	89.6	28.2	20.9	23.3
30°	3111.1	2924.7	2535.8	1962.9	1328.6	739.8	408.5	101.8	23.3	18.4	22.1
31°	3471.8	3385.9	2912.4	2270.8	1556.8	878.4	452.7	105.5	22.1	18.4	20.9
32°	3900.0	3747.8	3323.4	2608.2	1788.7	1002.3	505.4	109.2	20.9	15.9	20.9
33°	4282.7	4135.5	3619.0	2905.0	2023.0	1143.4	561.9	110.4	18.4	15.9	19.6
34°	4685.1	4483.9	3972.3	3215.4	2263.4	1295.5	613.4	111.6	17.2	14.7	19.6
35°	4973.4	4772.2	4276.6	3460.8	2470.8	1430.4	672.3	111.6	15.9	14.7	18.4
36°	5196.7	5020.0	4539.1	3713.5	2676.9	1551.9	718.9	111.6	13.5	13.5	18.4
37°	5350.0	5182.0	4715.8	3930.6	2833.9	1659.8	760.6	111.6	12.3	13.5	18.4
38°	5424.9	5285.0	4886.3	4088.9	2986.0	1744.5	793.7	109.2	11.0	12.3	17.2
39°	5456.8	5342.7	4990.6	4222.6	3100.1	1818.1	818.3	106.7	9.8	12.3	17.2
40°	5451.8	5352.5	5049.5	4314.6	3192.1	1868.4	831.8	103.1	8.6	11.0	17.2
41°	5423.6	5337.8	5080.1	4393.1	3247.3	1902.7	835.4	99.4	7.4	11.0	15.9
42°	5391.7	5313.2	5089.9	4434.8	3282.9	1913.8	825.6	94.5	7.4	9.8	15.9
43°	5358.6	5286.2	5089.9	4448.3	3291.5	1906.4	809.7	85.9	6.1	9.8	15.9
44°	5331.6	5262.9	5074.0	4444.7	3273.1	1878.2	780.2	76.1	4.9	9.8	15.9
45°	5299.7	5232.3	5053.1	4421.3	3237.5	1830.4	743.4	67.5	3.7	8.6	15.9
46°	5243.3	5190.5	5016.3	4373.5	3181.1	1764.1	696.8	61.3	2.5	8.6	14.7
47°	5134.1	5088.7	4945.2	4302.3	3106.2	1685.6	649.0	55.2	2.5	8.6	14.7
48°	4914.5	4913.3	4802.9	4169.9	2987.2	1587.5	598.7	49.1	2.5	8.6	14.7
49°	4702.3	4680.2	4542.8	3936.8	2816.7	1469.7	545.9	44.2	1.2	8.6	14.7
50°	4585.7	4537.9	4312.2	3662.0	2598.3	1306.5	489.5	36.8	1.2	7.4	14.7
51°	4464.3	4395.6	4129.4	3414.2	2338.3	1149.5	428.1	29.4	1.2	7.4	13.5
52°	4244.7	4179.7	3881.6	3177.4	2085.5	988.8	369.3	24.5	1.2	7.4	14.7
53°	4007.9	3914.7	3590.8	2917.3	1863.5	846.5	309.2	20.9	1.2	7.4	13.5
54°	3709.8	3668.1	3296.4	2598.3	1603.4	709.1	253.9	17.2	1.2	7.4	13.5
55°	3428.9	3367.5	2981.1	2272.0	1367.9	581.5	212.2	13.5	1.2	7.4	13.5
56°	3070.7	2978.6	2616.7	1972.7	1128.6	468.6	179.1	11.0	1.2	7.4	13.5
57°	2643.7	2545.6	2259.7	1640.2	885.7	357.0	149.7	8.6	1.2	7.4	13.5
58°	2236.4	2151.8	1845.1	1266.0	667.4	247.8	123.9	6.1	1.2	6.1	13.5
59°	1932.2	1839.0	1534.7	974.1	463.7	182.8	93.2	4.9	1.2	7.4	13.5
60°	1673.3	1553.1	1235.4	754.5	331.2	131.3	68.7	2.5	2.5	7.4	13.5
62.5°	964.3	851.4	590.1	306.7	136.2	67.5	33.1	1.2	2.5	7.4	13.5
65°	244.1	217.1	141.1	66.2	38.0	23.3	12.3	1.2	2.5	6.1	12.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
67.5°	8.6	8.6	8.6	7.4	6.1	4.9	2.5	1.2	2.5	6.1	12.3
70°	3.7	3.7	3.7	2.5	2.5	1.2	1.2	1.2	2.5	6.1	11.0
72.5°	2.5	2.5	2.5	2.5	1.2	1.2	1.2	1.2	3.7	6.1	9.8
75°	2.5	2.5	2.5	2.5	1.2	1.2	1.2	1.2	3.7	6.1	9.8
77.5°	2.5	2.5	1.2	1.2	1.2	1.2	1.2	1.2	3.7	4.9	8.6
80°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	3.7	4.9	7.4
82.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	3.7	4.9	6.1
85°	0.0	0.0	0.0	0.0	0.0	1.2	0.0	1.2	3.7	4.9	4.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	3.7	4.9	3.7
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):

	135°	157.5°	180°
0°	62.6	62.6	62.6
2.5°	58.9	58.9	58.9
5°	55.2	55.2	54.0
7.5°	51.5	50.3	50.3
10°	46.6	46.6	46.6
12.5°	42.9	42.9	42.9
15°	39.3	40.5	40.5
17.5°	35.6	38.0	38.0
20°	33.1	35.6	36.8
22.5°	30.7	33.1	34.4
25°	29.4	31.9	33.1
27.5°	27.0	30.7	33.1
30°	25.8	29.4	31.9
31°	25.8	29.4	30.7
32°	24.5	29.4	30.7
33°	24.5	29.4	30.7
34°	24.5	28.2	30.7
35°	23.3	28.2	29.4
36°	23.3	28.2	29.4
37°	23.3	28.2	30.7
38°	23.3	28.2	29.4
39°	22.1	28.2	29.4
40°	22.1	28.2	29.4
41°	22.1	28.2	29.4
42°	22.1	28.2	29.4
43°	22.1	28.2	29.4
44°	22.1	27.0	29.4
45°	22.1	27.0	29.4
46°	22.1	28.2	29.4
47°	22.1	28.2	30.7
48°	22.1	27.0	29.4
49°	20.9	27.0	29.4
50°	20.9	27.0	29.4
51°	20.9	28.2	30.7
52°	20.9	28.2	30.7
53°	20.9	28.2	30.7
54°	20.9	28.2	29.4
55°	20.9	28.2	30.7
56°	20.9	28.2	29.4
57°	20.9	28.2	29.4
58°	20.9	27.0	29.4
59°	20.9	27.0	29.4
60°	20.9	27.0	29.4
62.5°	19.6	27.0	29.4
65°	19.6	25.8	28.2



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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
67.5°	18.4	25.8	27.0
70°	17.2	24.5	25.8
72.5°	15.9	23.3	24.5
75°	14.7	20.9	22.1
77.5°	12.3	18.4	20.9
80°	11.0	15.9	17.2
82.5°	8.6	13.5	14.7
85°	6.1	9.8	9.8
87.5°	2.5	4.9	4.9
90°	0.0	0.0	0.0

(END OF REPORT)