

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: P1314510

Luminaire Tested: P3SQAS17R259735DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1314510
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: P3SQAS17R259735DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R25 optic, 3500K CCT AND, 97CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

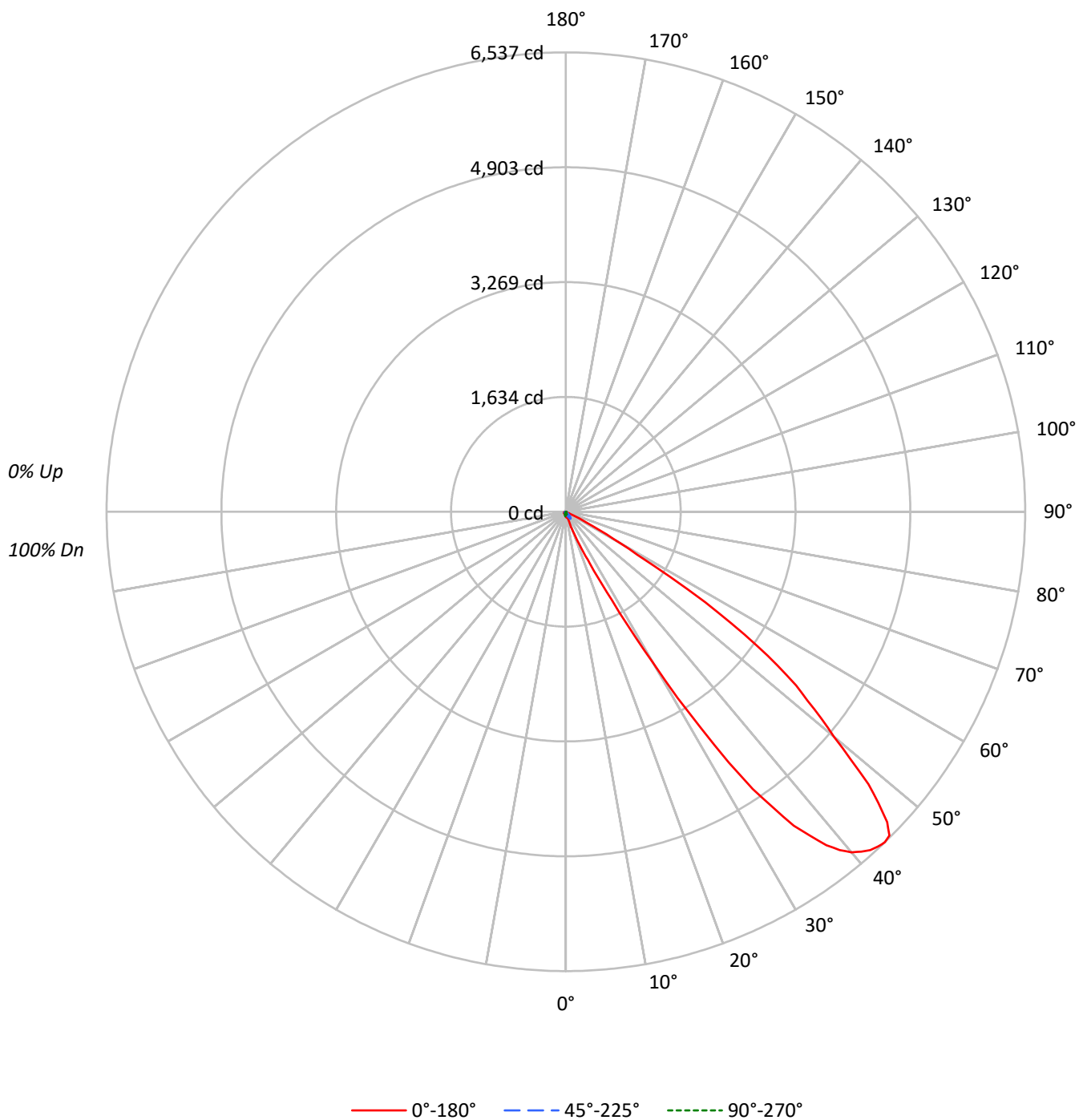
Lumens per Lamp: N/A
Luminaire Lumens: 1363.0 lumens
Efficiency: N/A
Efficacy: 64.3 lumens/watt
Spacing Criteria (0/90/45): 3.65 / 0.6 / 1.37
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 21.2
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°	11987	11987	11987	11987	11987
5°	13692	13070	11618	10373	10165
10°	13641	12381	9863	8604	8604
15°	15191	10698	7702	7275	7702
20°	53645	10557	5938	6158	6818
25°	154302	13454	4789	5701	6613
30°	492312	20742	3818	5489	6682
35°	1078284	24451	3280	5298	6812
40°	1422418	22122	2698	5396	7284
45°	1586255	15490	2630	5845	7891
50°	1335233	8038	2572	6109	8681
55°	998308	3243	2522	6846	9728
60°	309036	827	2480	7440	10747
65°	26407	0	2934	7824	11736
70°	1813	604	3021	9064	13294
75°	1597	799	3993	9582	15172
80°	1190	1190	5951	10711	17852
85°	2371	2371	9485	11856	18970

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1586255 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.2	0.5
10°-20°	16.1	1.2
20°-30°	75.4	5.5
30°-40°	363.1	26.6
40°-50°	569.1	41.8
50°-60°	291.7	21.4
60°-70°	27.5	2.0
70°-80°	9.3	0.7
80°-90°	4.6	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°	97.7	7.2
0°-40°	460.8	33.8
0°-60°	1321.6	97.0
0°-90°	1363.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1363.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	70	70	70	70	70	
5°	79	76	67	60	59	8
15°	85	60	43	41	43	36
25°	812	71	25	30	35	504
35°	5129	116	16	25	32	3113
45°	6513	64	11	24	32	4766
55°	3325	11	8	23	32	2768
65°	65	0	7	19	29	203
75°	2	1	6	14	23	3
85°	1	1	5	6	10	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°	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6
2.5°	75.6	75.6	75.6	75.6	75.6	75.6	74.4	74.4	75.6	74.4	74.4
5°	79.2	79.2	79.2	79.2	79.2	79.2	79.2	78.0	78.0	78.0	75.6
7.5°	80.4	79.2	79.2	79.2	79.2	79.2	79.2	79.2	78.0	78.0	74.4
10°	78.0	78.0	78.0	78.0	76.8	76.8	76.8	75.6	75.6	75.6	70.8
12.5°	78.0	78.0	78.0	78.0	76.8	76.8	75.6	75.6	74.4	73.2	64.8
15°	85.2	85.2	85.2	84.0	82.8	81.6	80.4	79.2	78.0	75.6	60.0
17.5°	124.7	121.1	119.9	115.1	109.1	103.1	98.4	93.6	88.8	85.2	57.6
20°	292.7	291.5	285.5	271.1	255.5	237.5	219.5	199.1	170.3	151.1	57.6
22.5°	507.3	500.2	489.4	478.6	451.0	418.6	385.0	346.6	309.4	269.9	61.2
25°	812.0	828.8	792.8	764.0	716.0	657.3	593.7	540.9	473.8	411.4	70.8
27.5°	1411.7	1422.5	1351.7	1258.2	1146.6	1023.1	903.2	813.2	700.5	597.3	88.8
30°	2475.6	2486.4	2367.6	2168.5	1938.2	1735.5	1460.9	1219.8	997.9	826.4	104.3
31°	3089.7	3005.7	2867.8	2674.7	2383.2	2077.4	1747.5	1456.1	1175.4	949.9	109.1
32°	3623.4	3616.2	3455.5	3162.8	2870.2	2492.4	2083.4	1703.2	1358.9	1074.7	112.7
33°	4253.1	4205.1	3978.4	3702.6	3315.2	2935.0	2407.2	1973.0	1547.2	1213.8	115.1
34°	4758.1	4628.5	4535.0	4219.5	3810.5	3326.0	2761.0	2258.5	1782.3	1348.1	116.3
35°	5128.7	5101.1	4918.8	4624.9	4208.7	3713.4	3142.4	2554.7	1979.0	1504.1	116.3
36°	5520.9	5435.7	5258.2	4991.9	4586.5	4074.4	3433.9	2811.4	2208.1	1644.4	115.1
37°	5766.8	5716.4	5540.1	5265.4	4868.4	4379.0	3760.1	3082.5	2390.4	1784.7	112.7
38°	6019.8	5917.9	5744.0	5481.3	5091.5	4632.1	3996.4	3291.2	2558.3	1908.3	109.1
39°	6194.9	6089.4	5911.9	5650.4	5269.0	4813.2	4183.5	3468.7	2704.7	2000.6	104.3
40°	6326.9	6224.9	6045.0	5776.3	5399.7	4956.0	4339.5	3625.8	2827.0	2081.0	98.4
41°	6408.4	6313.7	6135.0	5867.5	5489.7	5037.5	4441.4	3727.8	2909.8	2134.9	92.4
42°	6476.8	6379.7	6197.3	5923.9	5544.9	5107.1	4503.8	3792.5	2966.1	2162.5	87.6
43°	6515.2	6418.0	6240.5	5961.1	5578.4	5139.5	4537.4	3822.5	2985.3	2158.9	79.2
44°	6536.8	6436.0	6257.3	5977.8	5592.8	5147.9	4539.8	3816.5	2972.1	2130.1	72.0
45°	6512.8	6413.2	6240.5	5961.1	5567.7	5121.5	4515.8	3784.1	2921.8	2073.8	63.6
46°	6356.9	6280.1	6121.8	5865.1	5488.5	5054.3	4454.6	3721.8	2843.8	2004.2	54.0
47°	6082.2	6021.0	5867.5	5676.8	5336.2	4930.8	4341.9	3603.0	2734.7	1899.9	43.2
48°	5795.5	5705.6	5562.9	5367.4	5079.5	4708.9	4155.9	3429.1	2569.1	1763.1	38.4
49°	5372.1	5319.4	5193.4	4975.1	4736.5	4410.2	3893.3	3206.0	2366.4	1614.4	33.6
50°	4983.5	4947.6	4771.2	4610.5	4357.4	4052.8	3537.1	2912.2	2114.6	1429.7	30.0
51°	4680.1	4636.9	4509.8	4309.5	4039.6	3685.8	3200.0	2530.8	1825.5	1210.2	24.0
52°	4363.4	4339.5	4226.7	4020.4	3755.3	3402.7	2872.6	2206.9	1544.8	1023.1	19.2
53°	4104.4	4069.6	3931.7	3748.1	3461.5	3096.9	2517.6	1905.9	1308.6	860.0	16.8
54°	3726.6	3712.2	3623.4	3431.5	3120.9	2723.9	2196.1	1604.8	1091.5	729.2	14.4
55°	3324.8	3276.8	3186.8	3034.5	2749.0	2378.4	1824.3	1330.1	882.8	614.1	10.8
56°	2835.4	2833.0	2672.3	2545.1	2292.1	1898.7	1457.3	1038.7	717.2	512.1	9.6
57°	2367.6	2292.1	2137.3	2011.4	1739.1	1440.5	1081.9	778.4	561.3	415.0	7.2
58°	1751.1	1711.6	1670.8	1486.1	1234.2	1020.7	772.4	546.9	415.0	316.6	4.8
59°	1188.6	1187.4	1139.4	999.1	854.0	635.7	482.2	371.8	285.5	232.7	3.6
60°	897.2	875.6	779.6	687.3	537.3	401.8	285.5	219.5	177.5	149.9	2.4
62.5°	314.2	326.2	286.7	237.5	181.1	148.7	113.9	92.4	75.6	61.2	0.0
65°	64.8	70.8	61.2	57.6	45.6	39.6	34.8	30.0	25.2	21.6	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°	8.4	7.2	7.2	7.2	6.0	6.0	6.0	6.0	4.8	4.8	1.2
70°	3.6	3.6	3.6	3.6	3.6	3.6	2.4	2.4	2.4	2.4	1.2
72.5°	3.6	3.6	3.6	2.4	2.4	2.4	2.4	2.4	2.4	1.2	1.2
75°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	1.2	1.2	1.2	1.2
77.5°	2.4	2.4	2.4	2.4	2.4	2.4	1.2	1.2	1.2	1.2	1.2
80°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
82.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.4
85°	1.2	1.2	1.2	0.0	0.0	1.2	1.2	1.2	1.2	1.2	1.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2
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°	69.6	69.6	69.6	69.6	69.6	69.6
2.5°	73.2	70.8	67.2	66.0	64.8	64.8
5°	72.0	67.2	63.6	60.0	58.8	58.8
7.5°	68.4	62.4	57.6	55.2	54.0	52.8
10°	64.8	56.4	51.6	49.2	49.2	49.2
12.5°	57.6	50.4	45.6	44.4	45.6	45.6
15°	51.6	43.2	40.8	40.8	42.0	43.2
17.5°	44.4	38.4	36.0	37.2	38.4	39.6
20°	39.6	32.4	32.4	33.6	37.2	37.2
22.5°	34.8	28.8	28.8	32.4	34.8	36.0
25°	31.2	25.2	26.4	30.0	33.6	34.8
27.5°	26.4	21.6	24.0	28.8	32.4	33.6
30°	22.8	19.2	22.8	27.6	31.2	33.6
31°	21.6	18.0	22.8	26.4	31.2	33.6
32°	19.2	18.0	21.6	26.4	31.2	32.4
33°	18.0	16.8	21.6	26.4	31.2	32.4
34°	16.8	15.6	20.4	26.4	31.2	32.4
35°	14.4	15.6	20.4	25.2	30.0	32.4
36°	13.2	14.4	20.4	25.2	30.0	32.4
37°	12.0	14.4	19.2	25.2	30.0	32.4
38°	10.8	13.2	19.2	25.2	30.0	32.4
39°	9.6	13.2	18.0	25.2	30.0	32.4
40°	8.4	12.0	18.0	24.0	30.0	32.4
41°	8.4	12.0	18.0	24.0	30.0	32.4
42°	7.2	12.0	18.0	24.0	30.0	32.4
43°	6.0	10.8	18.0	24.0	30.0	32.4
44°	4.8	10.8	16.8	24.0	30.0	32.4
45°	4.8	10.8	16.8	24.0	30.0	32.4
46°	3.6	9.6	16.8	24.0	30.0	32.4
47°	2.4	9.6	16.8	22.8	30.0	32.4
48°	2.4	9.6	16.8	22.8	30.0	32.4
49°	2.4	9.6	15.6	22.8	30.0	32.4
50°	2.4	9.6	15.6	22.8	30.0	32.4
51°	1.2	8.4	15.6	22.8	30.0	32.4
52°	1.2	8.4	15.6	22.8	30.0	33.6
53°	1.2	8.4	15.6	22.8	30.0	32.4
54°	1.2	8.4	14.4	22.8	30.0	32.4
55°	1.2	8.4	14.4	22.8	30.0	32.4
56°	1.2	7.2	14.4	21.6	30.0	32.4
57°	2.4	7.2	14.4	21.6	30.0	31.2
58°	2.4	7.2	14.4	21.6	28.8	31.2
59°	2.4	7.2	14.4	21.6	28.8	31.2
60°	2.4	7.2	13.2	21.6	28.8	31.2
62.5°	2.4	7.2	13.2	20.4	27.6	30.0
65°	2.4	7.2	12.0	19.2	27.6	28.8



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	2.4	6.0	12.0	18.0	26.4	27.6
70°	3.6	6.0	10.8	18.0	25.2	26.4
72.5°	3.6	6.0	10.8	15.6	22.8	25.2
75°	3.6	6.0	9.6	14.4	21.6	22.8
77.5°	3.6	6.0	8.4	13.2	19.2	20.4
80°	4.8	6.0	7.2	10.8	16.8	18.0
82.5°	4.8	6.0	6.0	8.4	13.2	14.4
85°	3.6	4.8	4.8	6.0	8.4	9.6
87.5°	3.6	4.8	3.6	2.4	4.8	4.8
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)