

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: P1312480

Luminaire Tested: P3SQAS13R459727DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1312480
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-84)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS13R459727DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R45 optic, 2700K CCT AND, 97CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

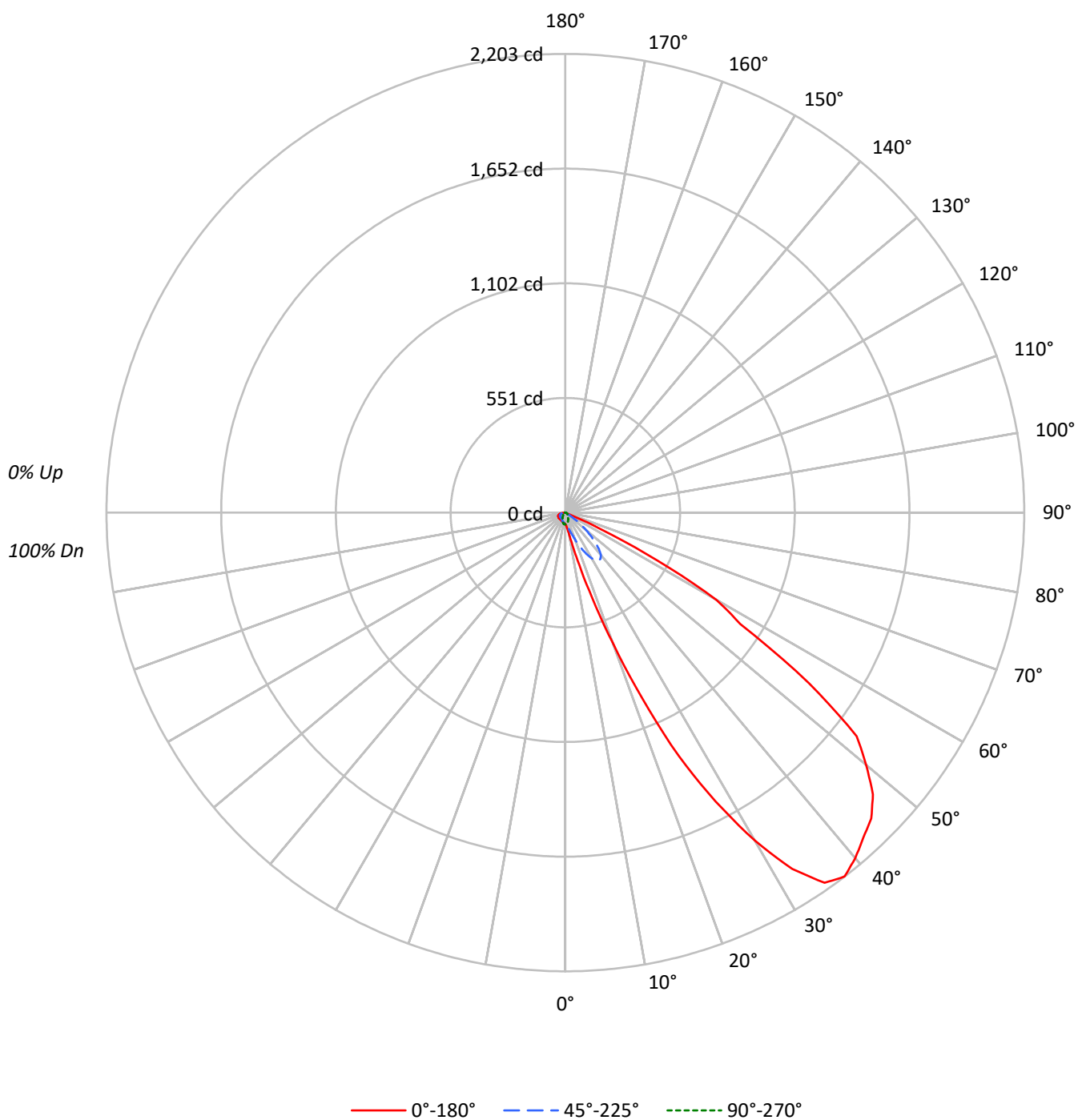
Lumens per Lamp: N/A
Luminaire Lumens: 984.0 lumens
Efficiency: N/A
Efficacy: 67.4 lumens/watt
Spacing Criteria (0/90/45): 3.81 / 0.82 / 1.83
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.6
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			0
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	99	97	94	96	93	91	92	90	88	86		
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	80	72	66	77	70	65	74	69	64	71	67	63	61		
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51		
5	76	63	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43		
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38	36		
7	63	49	40	34	61	48	40	33	47	39	33	45	38	33	44	37	33	31		
8	58	44	35	29	56	43	35	29	42	34	29	40	33	28	39	33	28	26		
9	53	39	31	25	52	39	30	25	38	30	25	36	29	25	35	29	24	22		
10	49	36	27	22	48	35	27	22	34	27	21	33	26	21	32	26	21	19		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	9799	9799	9799	9799	9799
5°	11669	10822	9699	8990	8990
10°	18625	12661	9094	8534	8534
15°	46393	16956	8255	7970	8255
20°	122190	25329	7148	7606	8046
25°	245343	37549	6176	7107	7886
30°	361697	50293	5011	6960	8094
35°	456232	58974	4268	6833	8368
40°	486782	59600	3844	7127	8948
45°	505751	49711	3556	7721	9694
50°	504969	34643	3483	8279	10905
55°	429193	15373	3663	9278	11950
60°	288438	3066	3651	10368	13709
65°	76531	1345	3627	11247	15567
70°	2065	1662	3676	12287	17624
75°	1597	1597	3793	12976	20029
80°	1587	2380	4066	13687	22613
85°	1581	3162	6521	14425	22527

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 10°

Vertical Angle: 47.5°

Luminance: 518791 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.7	0.6
10°-20°	27.8	2.8
20°-30°	114.5	11.6
30°-40°	241.2	24.5
40°-50°	297.6	30.2
50°-60°	223.1	22.7
60°-70°	57.4	5.8
70°-80°	11.9	1.2
80°-90°	4.8	0.5
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°	147.9	15.0
0°-40°	389.1	39.5
0°-60°	909.9	92.5
0°-90°	984.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	984.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	57	57	57	57	57	
5°	68	63	56	52	52	8
15°	260	95	46	45	46	95
25°	1291	198	32	37	42	602
35°	2170	280	20	32	40	1322
45°	2076	204	15	32	40	1589
55°	1429	51	12	31	40	1234
65°	188	3	9	28	38	271
75°	2	2	6	20	30	3
85°	1	2	3	7	11	1
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°	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9
2.5°	60.2	60.2	60.2	60.2	60.2	60.2	60.2	59.4	58.5	56.9	55.3
5°	67.5	66.7	66.7	66.7	65.9	65.0	65.0	62.6	59.4	56.1	53.7
7.5°	79.7	79.7	78.9	77.2	76.4	74.8	73.2	66.7	59.4	54.5	51.2
10°	106.5	104.9	102.4	100.8	96.8	91.1	87.0	72.4	58.5	52.0	49.6
12.5°	159.4	162.6	154.5	146.3	135.0	124.4	111.4	82.1	58.5	49.6	47.2
15°	260.2	265.9	250.4	234.2	206.5	180.5	156.1	95.1	56.9	46.3	43.9
17.5°	425.2	432.5	406.5	368.3	325.2	273.2	228.5	113.0	55.3	43.1	41.5
20°	666.7	665.9	615.5	567.5	484.6	408.2	324.4	138.2	52.8	39.0	39.0
22.5°	963.5	966.7	904.9	818.7	700.9	578.1	444.7	167.5	49.6	35.8	36.6
25°	1291.1	1263.5	1190.3	1085.4	935.0	765.1	589.5	197.6	46.3	32.5	34.1
27.5°	1564.3	1537.5	1453.7	1329.3	1167.5	965.9	736.6	227.7	42.3	29.3	31.7
30°	1818.8	1784.7	1683.8	1543.2	1350.5	1132.6	874.8	252.9	37.4	25.2	29.3
32.5°	2028.6	1997.7	1883.0	1719.6	1509.8	1275.7	991.9	272.4	32.5	22.8	27.6
35°	2170.0	2138.3	2032.6	1853.0	1624.5	1379.8	1087.1	280.5	28.5	20.3	26.8
37.5°	2202.6	2185.5	2109.9	1941.6	1703.4	1446.4	1148.0	278.1	23.6	18.7	25.2
40°	2165.2	2169.2	2133.5	1993.6	1745.6	1474.9	1173.2	265.1	19.5	17.1	24.4
42.5°	2117.2	2127.8	2125.3	2014.8	1763.5	1476.5	1162.7	239.0	15.4	15.4	23.6
45°	2076.5	2087.1	2101.7	2005.8	1751.3	1455.4	1129.3	204.1	11.4	14.6	23.6
47.5°	2002.6	2013.9	2035.1	1934.3	1689.5	1400.9	1069.2	165.9	8.1	13.8	22.8
50°	1884.7	1890.4	1884.7	1771.6	1570.8	1313.1	971.6	129.3	5.7	13.0	22.8
52.5°	1763.5	1752.1	1705.0	1561.9	1382.2	1174.1	848.8	91.9	4.1	12.2	22.0
55°	1429.4	1411.5	1376.5	1288.7	1186.2	1003.3	686.2	51.2	4.1	12.2	21.1
57.5°	996.0	1005.7	1017.9	1000.1	952.9	790.3	521.2	22.8	4.1	11.4	21.1
60°	837.4	829.3	830.1	818.7	740.7	576.5	358.6	8.9	4.1	10.6	20.3
62.5°	500.0	505.7	516.3	518.7	441.5	322.0	187.8	4.1	4.1	9.8	19.5
65°	187.8	196.8	172.4	149.6	118.7	87.0	43.9	3.3	4.9	8.9	17.9
67.5°	5.7	6.5	8.1	7.3	7.3	6.5	4.9	3.3	4.9	8.1	17.1
70°	4.1	4.1	4.1	4.1	4.1	3.3	3.3	3.3	4.1	7.3	15.4
72.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	4.1	6.5	13.8
75°	2.4	3.3	2.4	2.4	2.4	2.4	2.4	2.4	4.1	5.7	11.4
77.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.3	4.9	9.8
80°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	2.4	3.3	4.1	8.1
82.5°	1.6	1.6	1.6	0.8	1.6	1.6	1.6	1.6	3.3	3.3	6.5
85°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.6	2.4	3.3	4.1
87.5°	0.0	0.0	0.0	0.0	0.8	0.8	0.8	1.6	2.4	2.4	2.4
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°	56.9	56.9	56.9
2.5°	53.7	53.7	53.7
5°	52.0	52.0	52.0
7.5°	50.4	50.4	50.4
10°	48.8	48.8	48.8
12.5°	47.2	47.2	48.0
15°	44.7	46.3	46.3
17.5°	43.1	44.7	45.5
20°	41.5	43.1	43.9
22.5°	39.0	41.5	43.1
25°	37.4	40.7	41.5
27.5°	35.8	39.8	41.5
30°	35.0	39.0	40.7
32.5°	33.3	38.2	39.8
35°	32.5	38.2	39.8
37.5°	32.5	37.4	39.8
40°	31.7	37.4	39.8
42.5°	31.7	37.4	39.8
45°	31.7	37.4	39.8
47.5°	30.9	37.4	40.7
50°	30.9	38.2	40.7
52.5°	30.9	38.2	40.7
55°	30.9	38.2	39.8
57.5°	30.1	37.4	39.8
60°	30.1	37.4	39.8
62.5°	28.5	36.6	39.0
65°	27.6	35.8	38.2
67.5°	26.0	35.0	36.6
70°	24.4	32.5	35.0
72.5°	22.0	30.9	33.3
75°	19.5	28.5	30.1
77.5°	17.1	25.2	26.8
80°	13.8	21.1	22.8
82.5°	10.6	16.3	17.1
85°	7.3	10.6	11.4
87.5°	3.3	4.9	5.7
90°	0.0	0.0	0.0

(END OF REPORT)