

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: P1305959

Luminaire Tested: P3SQAS13R459024DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1305959
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: P3SQAS13R459024DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R45 optic, 2400K CCT AND, 90CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

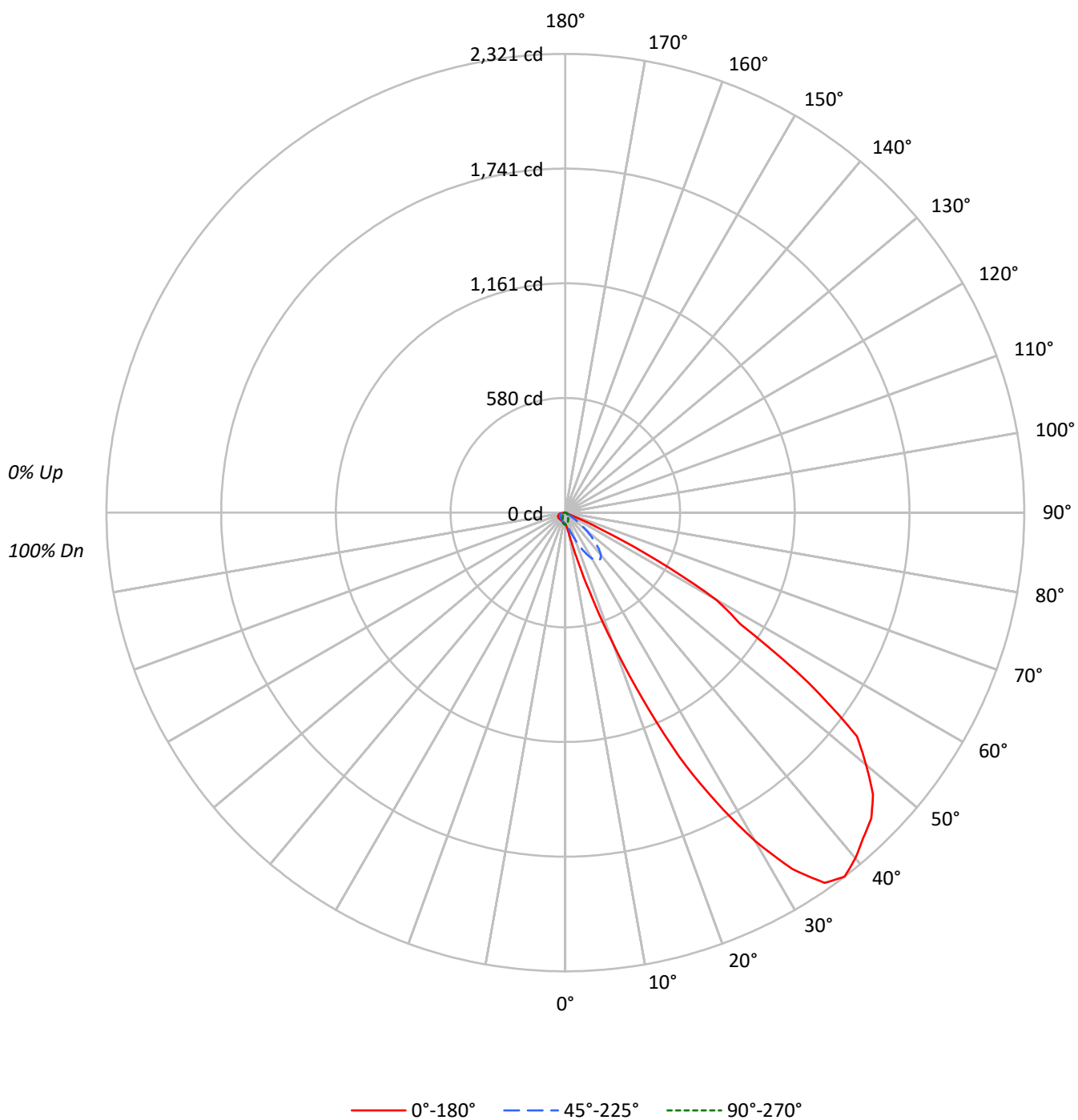
Lumens per Lamp: N/A
Luminaire Lumens: 1037.0 lumens
Efficiency: N/A
Efficacy: 71.0 lumens/watt
Spacing Criteria (0/90/45): 3.81 / 0.82 / 1.83
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	0			
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°	10333	10333	10333	10333	10333
5°	12292	11410	10217	9474	9474
10°	19621	13343	9583	8989	8989
15°	48889	17883	8701	8398	8701
20°	128769	26703	7533	8009	8486
25°	258569	39564	6518	7487	8304
30°	381186	52998	5290	7318	8511
35°	480809	62148	4499	7211	8830
40°	512996	62792	4047	7509	9442
45°	533006	52390	3751	8135	10230
50°	532164	36492	3671	8735	11467
55°	452283	16214	3873	9789	12611
60°	304007	3238	3823	10919	14467
65°	80647	1386	3831	11859	16423
70°	2165	1712	3877	12941	18530
75°	1730	1730	3993	13708	21094
80°	1686	2579	4265	14480	23803
85°	1778	3359	6719	15215	23712

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 10°

Vertical Angle: 47.5°

Luminance: 546731 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.0	0.6
10°-20°	29.3	2.8
20°-30°	120.6	11.6
30°-40°	254.2	24.5
40°-50°	313.7	30.2
50°-60°	235.1	22.7
60°-70°	60.5	5.8
70°-80°	12.5	1.2
80°-90°	5.1	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°	155.8	15.0
0°-40°	410.1	39.5
0°-60°	958.9	92.5
0°-90°	1037.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1037.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	60	60	60	60	60	
5°	71	66	59	55	55	8
15°	274	100	49	47	49	100
25°	1361	208	34	39	44	634
35°	2287	296	21	34	42	1394
45°	2188	215	15	33	42	1675
55°	1506	54	13	33	42	1301
65°	198	3	9	29	40	285
75°	3	3	6	21	32	3
85°	1	2	3	8	12	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°	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
2.5°	63.4	63.4	63.4	63.4	63.4	63.4	63.4	62.5	61.7	60.0	58.3
5°	71.1	70.3	70.3	70.3	69.4	68.5	68.5	66.0	62.5	59.1	56.6
7.5°	84.0	84.0	83.1	81.4	80.5	78.8	77.1	70.3	62.5	57.4	54.0
10°	112.2	110.5	108.0	106.2	102.0	96.0	91.7	76.3	61.7	54.8	52.3
12.5°	167.9	171.4	162.8	154.2	142.2	131.1	117.4	86.5	61.7	52.3	49.7
15°	274.2	280.2	263.9	246.8	217.6	190.2	164.5	100.3	60.0	48.8	46.3
17.5°	448.1	455.8	428.4	388.2	342.7	287.9	240.8	119.1	58.3	45.4	43.7
20°	702.6	701.8	648.6	598.1	510.7	430.1	341.9	145.7	55.7	41.1	41.1
22.5°	1015.4	1018.8	953.7	862.8	738.6	609.2	468.7	176.5	52.3	37.7	38.6
25°	1360.7	1331.5	1254.4	1143.9	985.4	806.3	621.2	208.2	48.8	34.3	36.0
27.5°	1648.6	1620.3	1532.0	1400.9	1230.4	1017.9	776.3	239.9	44.6	30.8	33.4
30°	1916.8	1880.8	1774.5	1626.3	1423.2	1193.6	922.0	266.5	39.4	26.6	30.8
32.5°	2137.8	2105.3	1984.5	1812.2	1591.2	1344.4	1045.4	287.0	34.3	24.0	29.1
35°	2286.9	2253.5	2142.1	1952.8	1712.0	1454.1	1145.6	295.6	30.0	21.4	28.3
37.5°	2321.2	2303.2	2223.5	2046.2	1795.1	1524.3	1209.9	293.0	24.8	19.7	26.6
40°	2281.8	2286.1	2248.4	2101.0	1839.7	1554.3	1236.4	279.3	20.6	18.0	25.7
42.5°	2231.2	2242.4	2239.8	2123.3	1858.5	1556.0	1225.3	251.9	16.3	16.3	24.8
45°	2188.4	2199.5	2215.0	2113.8	1845.7	1533.8	1190.2	215.1	12.0	15.4	24.8
47.5°	2110.4	2122.4	2144.7	2038.4	1780.5	1476.3	1126.8	174.8	8.6	14.6	24.0
50°	1986.2	1992.2	1986.2	1867.1	1655.4	1383.8	1023.9	136.2	6.0	13.7	24.0
52.5°	1858.5	1846.5	1796.8	1646.0	1456.6	1237.3	894.5	96.8	4.3	12.9	23.1
55°	1506.3	1487.5	1450.6	1358.1	1250.1	1057.4	723.2	54.0	4.3	12.9	22.3
57.5°	1049.6	1059.9	1072.8	1053.9	1004.2	832.9	549.2	24.0	4.3	12.0	22.3
60°	882.6	874.0	874.8	862.8	780.6	607.5	377.9	9.4	4.3	11.1	21.4
62.5°	527.0	533.0	544.1	546.7	465.3	339.3	197.9	4.3	4.3	10.3	20.6
65°	197.9	207.4	181.7	157.7	125.1	91.7	46.3	3.4	5.1	9.4	18.9
67.5°	6.0	6.9	8.6	7.7	7.7	6.9	5.1	3.4	5.1	8.6	18.0
70°	4.3	4.3	4.3	4.3	4.3	3.4	3.4	3.4	4.3	7.7	16.3
72.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	4.3	6.9	14.6
75°	2.6	3.4	2.6	2.6	2.6	2.6	2.6	2.6	4.3	6.0	12.0
77.5°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	3.4	5.1	10.3
80°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	2.6	3.4	4.3	8.6
82.5°	1.7	1.7	1.7	0.9	1.7	1.7	1.7	1.7	3.4	3.4	6.9
85°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.7	2.6	3.4	4.3
87.5°	0.0	0.0	0.0	0.0	0.9	0.9	0.9	1.7	2.6	2.6	2.6
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°	60.0	60.0	60.0
2.5°	56.6	56.6	56.6
5°	54.8	54.8	54.8
7.5°	53.1	53.1	53.1
10°	51.4	51.4	51.4
12.5°	49.7	49.7	50.6
15°	47.1	48.8	48.8
17.5°	45.4	47.1	48.0
20°	43.7	45.4	46.3
22.5°	41.1	43.7	45.4
25°	39.4	42.8	43.7
27.5°	37.7	42.0	43.7
30°	36.8	41.1	42.8
32.5°	35.1	40.3	42.0
35°	34.3	40.3	42.0
37.5°	34.3	39.4	42.0
40°	33.4	39.4	42.0
42.5°	33.4	39.4	42.0
45°	33.4	39.4	42.0
47.5°	32.6	39.4	42.8
50°	32.6	40.3	42.8
52.5°	32.6	40.3	42.8
55°	32.6	40.3	42.0
57.5°	31.7	39.4	42.0
60°	31.7	39.4	42.0
62.5°	30.0	38.6	41.1
65°	29.1	37.7	40.3
67.5°	27.4	36.8	38.6
70°	25.7	34.3	36.8
72.5°	23.1	32.6	35.1
75°	20.6	30.0	31.7
77.5°	18.0	26.6	28.3
80°	14.6	22.3	24.0
82.5°	11.1	17.1	18.0
85°	7.7	11.1	12.0
87.5°	3.4	5.1	6.0
90°	0.0	0.0	0.0

(END OF REPORT)