

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: P1312626

Luminaire Tested: P3SQAS17R459727DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1312626
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: P3SQAS17R459727DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R45 optic, 2700K CCT AND, 97CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

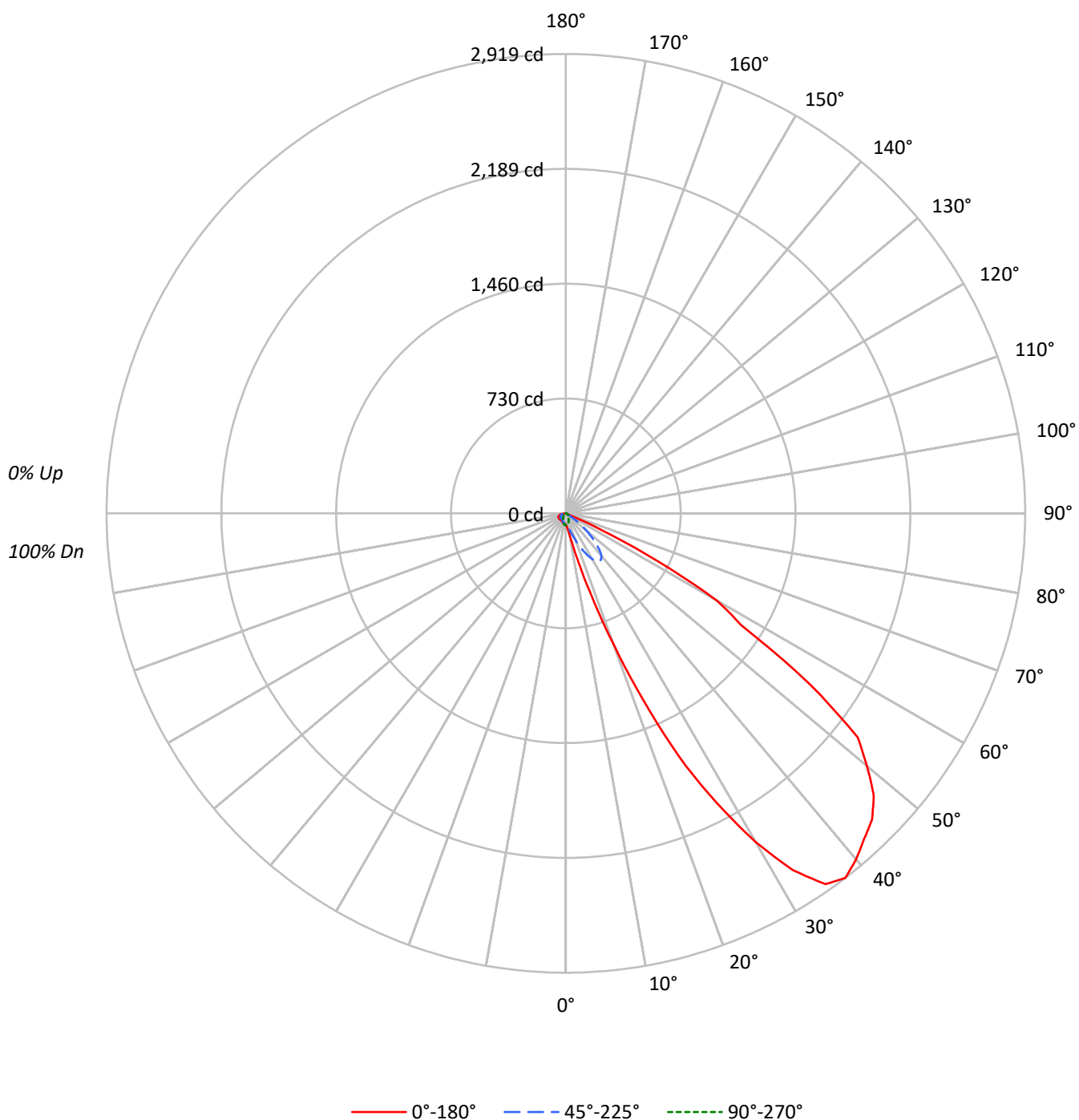
Lumens per Lamp: N/A
Luminaire Lumens: 1304.0 lumens
Efficiency: N/A
Efficacy: 61.5 lumens/watt
Spacing Criteria (0/90/45): 3.81 / 0.82 / 1.83
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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			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°	12986	12986	12986	12986	12986
5°	15456	14349	12845	11929	11929
10°	24675	16771	12067	11297	11297
15°	61477	22483	10947	10573	10947
20°	161924	33576	9475	10080	10667
25°	325136	49749	8190	9425	10451
30°	479326	66640	6642	9207	10719
35°	604623	78148	5656	9062	11101
40°	645078	78980	5081	9442	11871
45°	670227	65859	4725	10230	12860
50°	669184	45897	4608	10958	14441
55°	568754	20388	4864	12281	15854
60°	382265	4099	4822	13743	18187
65°	101430	1752	4849	14915	20620
70°	2719	2165	4884	16265	23314
75°	2129	2129	4991	17234	26550
80°	2182	3174	5356	18150	29952
85°	2174	4347	8497	19168	29838

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 10°

Vertical Angle: 47.5°

Luminance: 687498 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.5	0.6
10°-20°	36.8	2.8
20°-30°	151.7	11.6
30°-40°	319.7	24.5
40°-50°	394.4	30.2
50°-60°	295.6	22.7
60°-70°	76.1	5.8
70°-80°	15.8	1.2
80°-90°	6.4	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°	196.0	15.0
0°-40°	515.7	39.5
0°-60°	1205.8	92.5
0°-90°	1304.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1304.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	75	75	75	75	75	
5°	89	83	74	69	69	10
15°	345	126	61	59	61	126
25°	1711	262	43	50	55	797
35°	2876	372	27	43	53	1752
45°	2752	270	19	42	53	2106
55°	1894	68	16	41	53	1636
65°	249	4	12	37	51	359
75°	3	3	8	26	40	4
85°	1	2	4	10	15	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°	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4
2.5°	79.7	79.7	79.7	79.7	79.7	79.7	79.7	78.7	77.6	75.4	73.3
5°	89.4	88.4	88.4	88.4	87.3	86.2	86.2	83.0	78.7	74.3	71.1
7.5°	105.6	105.6	104.5	102.4	101.3	99.1	97.0	88.4	78.7	72.2	67.9
10°	141.1	139.0	135.8	133.6	128.2	120.7	115.3	95.9	77.6	69.0	65.7
12.5°	211.2	215.5	204.7	193.9	178.9	164.9	147.6	108.8	77.6	65.7	62.5
15°	344.8	352.3	331.9	310.3	273.7	239.2	206.9	126.1	75.4	61.4	58.2
17.5°	563.5	573.2	538.7	488.1	431.0	362.0	302.8	149.8	73.3	57.1	55.0
20°	883.5	882.4	815.6	752.1	642.2	540.9	429.9	183.2	70.0	51.7	51.7
22.5°	1276.8	1281.1	1199.2	1085.0	928.8	766.1	589.4	222.0	65.7	47.4	48.5
25°	1711.0	1674.4	1577.4	1438.4	1239.1	1013.9	781.2	261.8	61.4	43.1	45.3
27.5°	2073.0	2037.5	1926.5	1761.7	1547.2	1280.0	976.2	301.7	56.0	38.8	42.0
30°	2410.3	2365.0	2231.4	2045.0	1789.7	1500.9	1159.4	335.1	49.6	33.4	38.8
32.5°	2688.3	2647.3	2495.4	2278.8	2000.8	1690.5	1314.5	361.0	43.1	30.2	36.6
35°	2875.8	2833.7	2693.7	2455.5	2152.8	1828.5	1440.6	371.7	37.7	26.9	35.6
37.5°	2918.8	2896.2	2796.0	2573.0	2257.3	1916.8	1521.4	368.5	31.2	24.8	33.4
40°	2869.3	2874.7	2827.3	2641.9	2313.3	1954.5	1554.8	351.3	25.9	22.6	32.3
42.5°	2805.7	2819.7	2816.5	2670.0	2337.0	1956.7	1540.8	316.8	20.5	20.5	31.2
45°	2751.8	2765.8	2785.2	2658.1	2320.9	1928.7	1496.6	270.4	15.1	19.4	31.2
47.5°	2653.8	2668.9	2696.9	2563.3	2239.0	1856.5	1416.9	219.8	10.8	18.3	30.2
50°	2497.6	2505.1	2497.6	2347.8	2081.7	1740.1	1287.6	171.3	7.5	17.2	30.2
52.5°	2337.0	2321.9	2259.4	2069.8	1831.7	1555.9	1124.9	121.8	5.4	16.2	29.1
55°	1894.2	1870.5	1824.1	1707.8	1572.0	1329.6	909.4	67.9	5.4	16.2	28.0
57.5°	1319.9	1332.8	1349.0	1325.3	1262.8	1047.3	690.7	30.2	5.4	15.1	28.0
60°	1109.8	1099.0	1100.1	1085.0	981.6	763.9	475.2	11.9	5.4	14.0	26.9
62.5°	662.6	670.2	684.2	687.4	585.1	426.7	248.9	5.4	5.4	12.9	25.9
65°	248.9	260.7	228.4	198.3	157.3	115.3	58.2	4.3	6.5	11.9	23.7
67.5°	7.5	8.6	10.8	9.7	9.7	8.6	6.5	4.3	6.5	10.8	22.6
70°	5.4	5.4	5.4	5.4	5.4	4.3	4.3	4.3	5.4	9.7	20.5
72.5°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	5.4	8.6	18.3
75°	3.2	4.3	3.2	3.2	3.2	3.2	3.2	3.2	5.4	7.5	15.1
77.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	4.3	6.5	12.9
80°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	3.2	4.3	5.4	10.8
82.5°	2.2	2.2	2.2	1.1	2.2	2.2	2.2	2.2	4.3	4.3	8.6
85°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.2	3.2	4.3	5.4
87.5°	0.0	0.0	0.0	0.0	1.1	1.1	1.1	2.2	3.2	3.2	3.2
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):

	135°	157.5°	180°
0°	75.4	75.4	75.4
2.5°	71.1	71.1	71.1
5°	69.0	69.0	69.0
7.5°	66.8	66.8	66.8
10°	64.6	64.6	64.6
12.5°	62.5	62.5	63.6
15°	59.3	61.4	61.4
17.5°	57.1	59.3	60.3
20°	55.0	57.1	58.2
22.5°	51.7	55.0	57.1
25°	49.6	53.9	55.0
27.5°	47.4	52.8	55.0
30°	46.3	51.7	53.9
32.5°	44.2	50.6	52.8
35°	43.1	50.6	52.8
37.5°	43.1	49.6	52.8
40°	42.0	49.6	52.8
42.5°	42.0	49.6	52.8
45°	42.0	49.6	52.8
47.5°	40.9	49.6	53.9
50°	40.9	50.6	53.9
52.5°	40.9	50.6	53.9
55°	40.9	50.6	52.8
57.5°	39.9	49.6	52.8
60°	39.9	49.6	52.8
62.5°	37.7	48.5	51.7
65°	36.6	47.4	50.6
67.5°	34.5	46.3	48.5
70°	32.3	43.1	46.3
72.5°	29.1	40.9	44.2
75°	25.9	37.7	39.9
77.5°	22.6	33.4	35.6
80°	18.3	28.0	30.2
82.5°	14.0	21.5	22.6
85°	9.7	14.0	15.1
87.5°	4.3	6.5	7.5
90°	0.0	0.0	0.0

(END OF REPORT)