

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: P1311528

Luminaire Tested: P3SQAS17R509050DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1311528
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-79)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS17R509050DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R50 optic, 5000K CCT AND, 90CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

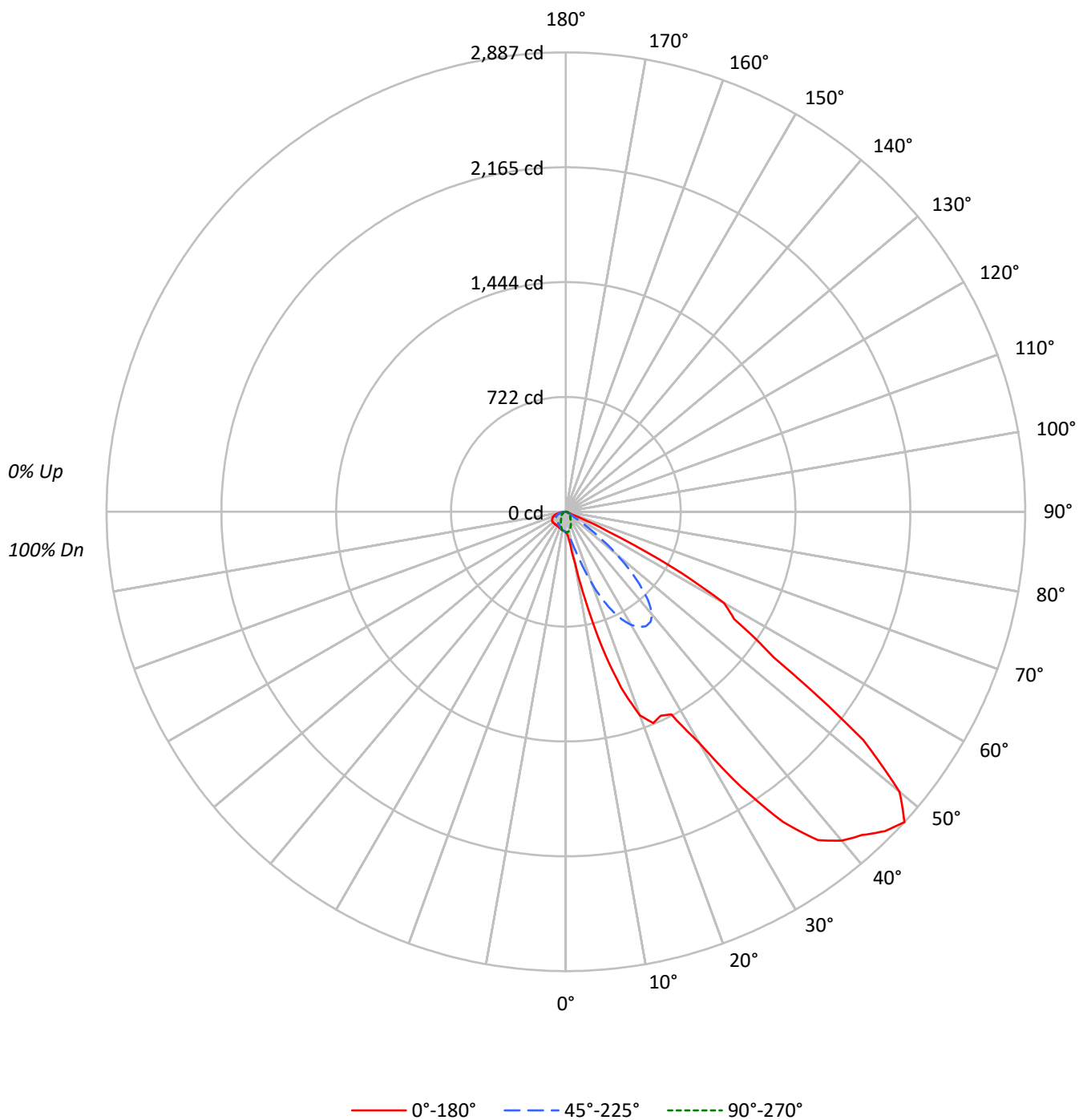
Lumens per Lamp: N/A
Luminaire Lumens: 1628.0 lumens
Efficiency: N/A
Efficacy: 76.8 lumens/watt
Spacing Criteria (0/90/45): 3.58 / 0.82 / 1.91
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	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	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51		
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43		
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	50	43	39	37		
7	63	50	41	34	62	49	40	34	47	39	34	46	39	34	44	38	33	31		
8	58	44	36	30	57	44	35	29	42	35	29	41	34	29	40	34	29	27		
9	54	40	31	26	53	39	31	26	38	31	25	37	30	25	36	30	25	23		
10	50	36	28	23	49	36	28	22	35	27	22	34	27	22	33	27	22	20		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	22286	22286	22286	22286	22286
5°	26503	24791	22129	21143	20901
10°	57046	30744	21143	20408	20653
15°	157954	50387	19060	19559	20308
20°	249731	88394	16495	18822	19849
25°	268546	129864	14157	18167	20048
30°	333338	163030	12310	17898	20702
35°	500215	184469	10638	18039	21887
40°	606656	189681	9487	18660	23089
45°	691125	162673	9255	19874	25355
50°	733541	112263	9431	21488	28267
55°	479217	45189	9278	23210	31257
60°	395217	7750	9197	25179	34376
65°	119198	3994	8599	26937	37817
70°	4935	4230	8510	27594	41089
75°	4658	4658	8451	28081	44916
80°	4166	4166	8331	27869	46019
85°	2766	5533	11066	27862	44461

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 47.5°

Luminance: 735934 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.5	0.8
10°-20°	77.1	4.7
20°-30°	198.2	12.2
30°-40°	356.0	21.9
40°-50°	475.5	29.2
50°-60°	362.1	22.2
60°-70°	109.9	6.8
70°-80°	26.2	1.6
80°-90°	9.5	0.6
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°	288.7	17.7
0°-40°	644.7	39.6
0°-60°	1482.3	91.1
0°-90°	1628.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1628.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	129	129	129	129	129	
5°	153	143	128	122	121	20
15°	886	283	107	110	114	261
25°	1413	683	74	96	106	674
35°	2379	877	51	86	104	1461
45°	2838	668	38	82	104	2170
55°	1596	150	31	77	104	1588
65°	292	10	21	66	93	405
75°	7	7	13	42	68	7
85°	1	3	6	14	22	2
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	129.4	129.4	129.4	129.4	129.4	129.4	129.4	129.4	129.4	129.4	129.4
2.5°	137.8	137.8	137.8	137.8	137.8	137.8	136.4	136.4	136.4	133.6	130.8
5°	153.3	154.7	153.3	153.3	150.5	150.5	147.6	147.6	143.4	135.0	128.0
7.5°	201.1	199.7	198.3	192.6	188.4	178.6	174.4	167.3	154.7	135.0	125.1
10°	326.2	317.8	312.2	299.5	272.8	255.9	233.4	210.9	175.8	135.0	120.9
12.5°	566.7	565.3	548.4	506.2	468.3	416.2	361.4	306.5	216.5	132.2	115.3
15°	885.9	873.2	849.3	800.1	732.6	651.1	552.6	455.6	282.6	128.0	106.9
17.5°	1158.7	1143.2	1124.9	1075.7	998.4	895.7	777.6	644.0	372.6	122.3	98.4
20°	1362.6	1352.7	1337.3	1297.9	1224.8	1132.0	999.8	838.1	482.3	115.3	90.0
22.5°	1437.1	1435.7	1438.5	1424.4	1387.9	1314.8	1188.2	1019.5	590.6	106.9	81.6
25°	1413.2	1411.8	1430.1	1448.4	1456.8	1427.3	1330.2	1165.7	683.4	99.8	74.5
27.5°	1435.7	1431.5	1423.0	1425.9	1449.8	1466.6	1421.6	1278.2	763.5	90.0	67.5
30°	1676.2	1652.2	1614.3	1549.6	1501.8	1497.6	1477.9	1366.8	819.8	80.2	61.9
32.5°	2051.6	2022.1	1953.2	1833.6	1719.7	1632.6	1570.7	1441.3	859.2	70.3	54.8
35°	2379.2	2358.1	2278.0	2159.9	1996.8	1833.6	1721.1	1551.0	877.4	61.9	50.6
37.5°	2601.4	2593.0	2514.2	2387.7	2221.7	2029.1	1880.0	1663.5	873.2	52.0	46.4
40°	2698.4	2673.1	2607.0	2500.2	2332.8	2159.9	2002.4	1735.2	843.7	42.2	42.2
42.5°	2756.1	2728.0	2656.3	2555.0	2390.5	2206.3	2016.4	1704.3	773.4	33.7	40.8
45°	2837.6	2808.1	2713.9	2605.6	2439.7	2226.0	1961.6	1594.6	667.9	25.3	38.0
47.5°	2886.9	2867.2	2796.9	2688.6	2487.5	2197.8	1835.0	1491.9	551.2	19.7	36.6
50°	2737.8	2718.1	2666.1	2591.6	2456.6	2103.6	1724.0	1326.0	419.0	15.5	35.2
52.5°	2356.7	2373.6	2383.5	2404.5	2306.1	1892.7	1558.0	1193.8	282.6	12.7	32.3
55°	1596.0	1621.3	1649.4	1733.8	1849.1	1684.6	1383.7	1032.1	150.5	12.7	30.9
57.5°	1254.3	1245.9	1237.4	1231.8	1321.8	1389.3	1216.3	825.4	64.7	12.7	28.1
60°	1147.4	1122.1	1105.2	1109.5	1154.5	1127.7	963.2	538.6	22.5	12.7	26.7
62.5°	752.3	772.0	810.0	874.6	843.7	724.2	559.7	213.7	11.2	12.7	23.9
65°	292.5	282.6	292.5	310.8	268.6	199.7	125.1	38.0	9.8	11.2	21.1
67.5°	39.4	35.2	26.7	16.9	15.5	14.1	11.2	9.8	9.8	11.2	19.7
70°	9.8	9.8	9.8	9.8	9.8	9.8	9.8	8.4	8.4	9.8	16.9
72.5°	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	9.8	14.1
75°	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	8.4	12.7
77.5°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	7.0	9.8
80°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	5.6	8.4
82.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	4.2	4.2	5.6	7.0
85°	1.4	2.8	1.4	2.8	2.8	2.8	2.8	2.8	2.8	4.2	5.6
87.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.8	4.2	4.2
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):

	112.5°	135°	157.5°	180°
0°	129.4	129.4	129.4	129.4
2.5°	128.0	125.1	125.1	125.1
5°	125.1	122.3	122.3	120.9
7.5°	120.9	119.5	119.5	119.5
10°	118.1	116.7	118.1	118.1
12.5°	112.5	113.9	115.3	115.3
15°	106.9	109.7	112.5	113.9
17.5°	101.2	106.9	109.7	111.1
20°	95.6	102.7	106.9	108.3
22.5°	91.4	98.4	104.1	106.9
25°	85.8	95.6	102.7	105.5
27.5°	80.2	91.4	99.8	104.1
30°	75.9	90.0	99.8	104.1
32.5°	71.7	87.2	98.4	102.7
35°	68.9	85.8	98.4	104.1
37.5°	66.1	84.4	98.4	102.7
40°	64.7	83.0	98.4	102.7
42.5°	63.3	83.0	98.4	104.1
45°	60.5	81.6	98.4	104.1
47.5°	59.1	81.6	98.4	104.1
50°	57.7	80.2	98.4	105.5
52.5°	56.2	78.7	98.4	105.5
55°	53.4	77.3	97.0	104.1
57.5°	52.0	75.9	95.6	101.2
60°	49.2	73.1	92.8	99.8
62.5°	46.4	70.3	90.0	95.6
65°	42.2	66.1	85.8	92.8
67.5°	38.0	60.5	81.6	88.6
70°	33.7	54.8	75.9	81.6
72.5°	29.5	49.2	70.3	74.5
75°	25.3	42.2	61.9	67.5
77.5°	21.1	36.6	52.0	56.2
80°	15.5	28.1	42.2	46.4
82.5°	12.7	21.1	30.9	33.7
85°	8.4	14.1	19.7	22.5
87.5°	4.2	7.0	9.8	11.2
90°	0.0	0.0	0.0	0.0

(END OF REPORT)