

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: P1311674

Luminaire Tested: P3SQAS20R509050D010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1311674
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: P3SQAS20R509050D010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R50 optic, 5000K CCT AND, 90CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

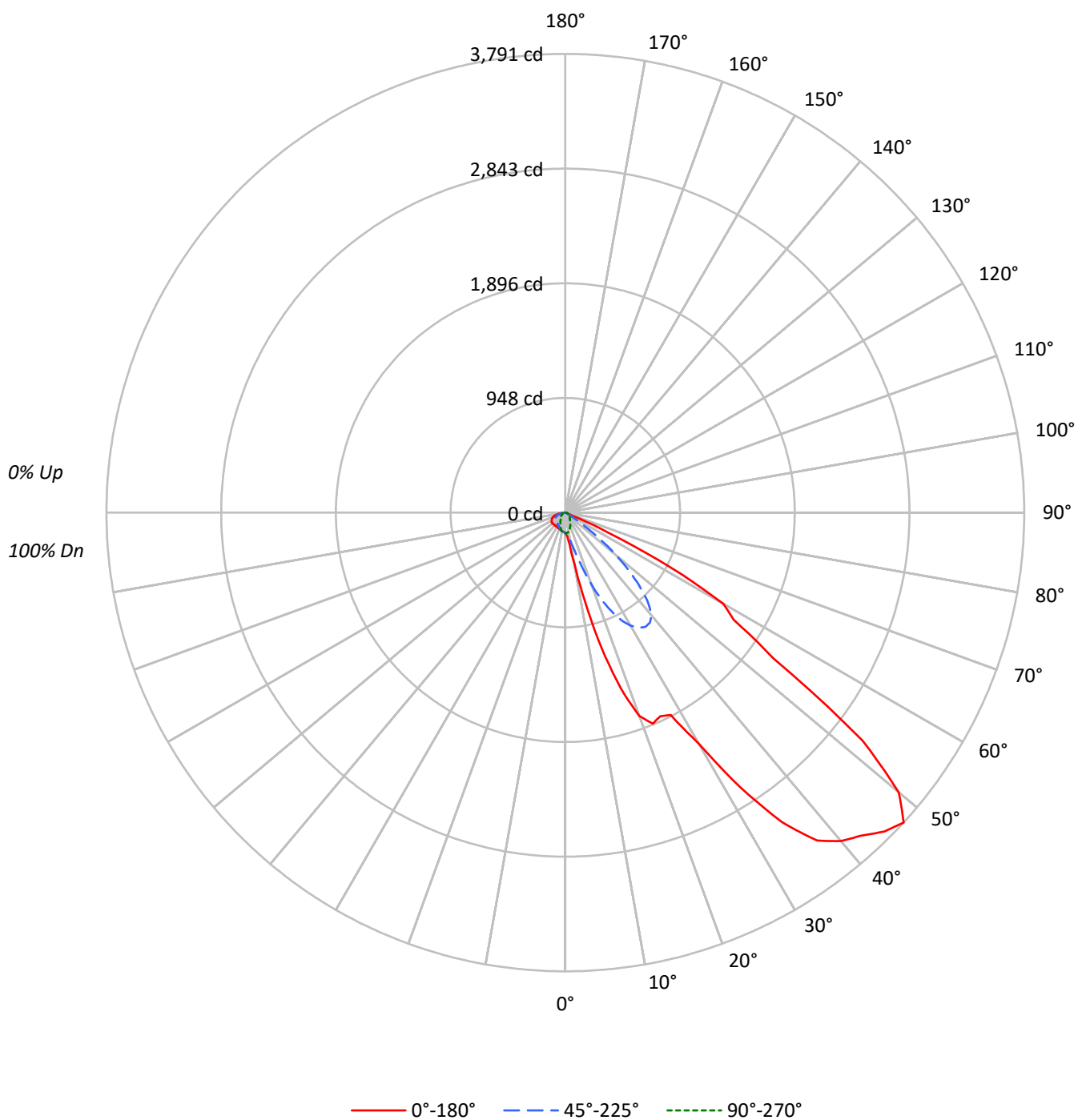
Lumens per Lamp: N/A
Luminaire Lumens: 2138.0 lumens
Efficiency: N/A
Efficacy: 74.2 lumens/watt
Spacing Criteria (0/90/45): 3.58 / 0.82 / 1.91
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 28.8
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	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°	29261	29261	29261	29261	29261
5°	34801	32571	29044	27782	27453
10°	74918	40362	27771	26809	27124
15°	207432	66184	25015	25675	26673
20°	327953	116087	21663	24706	26062
25°	352670	170549	18604	23867	26319
30°	437743	214099	16168	23506	27185
35°	656932	242265	13981	23674	28740
40°	796720	249101	12455	24505	30306
45°	907649	213650	12154	26085	33295
50°	963345	147442	12378	28213	37108
55°	629347	59332	12191	30507	41046
60°	519045	10161	12090	33067	45157
65°	156526	5257	11288	35372	49676
70°	6496	5589	11179	36255	53930
75°	6122	6122	11046	36864	58956
80°	5455	5455	11009	36597	60400
85°	3557	7311	14623	36557	58293

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 47.5°

Luminance: 966459 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	17.7	0.8
10°-20°	101.2	4.7
20°-30°	260.3	12.2
30°-40°	467.5	21.9
40°-50°	624.4	29.2
50°-60°	475.6	22.2
60°-70°	144.3	6.8
70°-80°	34.5	1.6
80°-90°	12.5	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°	379.2	17.7
0°-40°	846.7	39.6
0°-60°	1946.7	91.1
0°-90°	2138.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2138.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	170	170	170	170	170	
5°	201	188	168	161	159	26
15°	1163	371	140	144	150	342
25°	1856	898	98	126	138	886
35°	3125	1152	66	113	137	1918
45°	3727	877	50	107	137	2849
55°	2096	198	41	102	137	2085
65°	384	13	28	87	122	531
75°	9	9	17	55	89	10
85°	2	4	7	18	30	3
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°	169.9	169.9	169.9	169.9	169.9	169.9	169.9	169.9	169.9	169.9	169.9
2.5°	181.0	181.0	181.0	181.0	181.0	181.0	179.1	179.1	179.1	175.4	171.7
5°	201.3	203.1	201.3	201.3	197.6	197.6	193.9	193.9	188.4	177.3	168.0
7.5°	264.1	262.2	260.4	253.0	247.5	234.5	229.0	219.8	203.1	177.3	164.4
10°	428.4	417.3	410.0	393.3	358.3	336.1	306.5	277.0	230.8	177.3	158.8
12.5°	744.2	742.4	720.2	664.8	614.9	546.6	474.6	402.6	284.4	173.6	151.4
15°	1163.4	1146.8	1115.4	1050.8	962.1	855.0	725.7	598.3	371.2	168.0	140.3
17.5°	1521.7	1501.3	1477.3	1412.7	1311.1	1176.3	1021.2	845.8	489.4	160.7	129.3
20°	1789.4	1776.5	1756.2	1704.5	1608.5	1486.6	1313.0	1100.6	633.4	151.4	118.2
22.5°	1887.3	1885.5	1889.1	1870.7	1822.7	1726.6	1560.4	1338.8	775.6	140.3	107.1
25°	1855.9	1854.1	1878.1	1902.1	1913.2	1874.4	1747.0	1530.9	897.5	131.1	97.9
27.5°	1885.5	1879.9	1868.8	1872.5	1903.9	1926.1	1867.0	1678.6	1002.7	118.2	88.6
30°	2201.2	2169.8	2120.0	2035.0	1972.2	1966.7	1940.9	1795.0	1076.6	105.3	81.3
32.5°	2694.3	2655.5	2565.0	2408.1	2258.5	2144.0	2062.7	1892.8	1128.3	92.3	72.0
35°	3124.6	3096.9	2991.6	2836.5	2622.3	2408.1	2260.3	2036.9	1152.3	81.3	66.5
37.5°	3416.3	3405.3	3301.9	3135.7	2917.7	2664.8	2469.0	2184.6	1146.8	68.3	60.9
40°	3543.8	3510.5	3423.7	3283.4	3063.6	2836.5	2629.7	2278.8	1108.0	55.4	55.4
42.5°	3619.5	3582.5	3488.4	3355.4	3139.3	2897.4	2648.1	2238.2	1015.7	44.3	53.6
45°	3726.6	3687.8	3564.1	3421.9	3204.0	2923.3	2576.1	2094.1	877.2	33.2	49.9
47.5°	3791.2	3765.4	3673.0	3530.8	3266.8	2886.4	2409.9	1959.3	723.9	25.9	48.0
50°	3595.5	3569.6	3501.3	3403.4	3226.1	2762.6	2264.0	1741.4	550.3	20.3	46.2
52.5°	3095.0	3117.2	3130.1	3157.8	3028.5	2485.6	2046.1	1567.8	371.2	16.6	42.5
55°	2096.0	2129.2	2166.1	2276.9	2428.4	2212.3	1817.1	1355.5	197.6	16.6	40.6
57.5°	1647.2	1636.2	1625.1	1617.7	1735.9	1824.5	1597.4	1084.0	84.9	16.6	36.9
60°	1506.9	1473.6	1451.5	1457.0	1516.1	1481.0	1265.0	707.3	29.5	16.6	35.1
62.5°	988.0	1013.8	1063.7	1148.6	1108.0	951.0	735.0	280.7	14.8	16.6	31.4
65°	384.1	371.2	384.1	408.1	352.7	262.2	164.4	49.9	12.9	14.8	27.7
67.5°	51.7	46.2	35.1	22.2	20.3	18.5	14.8	12.9	12.9	14.8	25.9
70°	12.9	12.9	12.9	12.9	12.9	12.9	12.9	11.1	11.1	12.9	22.2
72.5°	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	12.9	18.5
75°	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	11.1	16.6
77.5°	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	9.2	12.9
80°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	7.4	11.1
82.5°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	5.5	5.5	7.4	9.2
85°	1.8	3.7	1.8	3.7	3.7	3.7	3.7	3.7	3.7	5.5	7.4
87.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	3.7	5.5	5.5
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°	169.9	169.9	169.9	169.9
2.5°	168.0	164.4	164.4	164.4
5°	164.4	160.7	160.7	158.8
7.5°	158.8	157.0	157.0	157.0
10°	155.1	153.3	155.1	155.1
12.5°	147.7	149.6	151.4	151.4
15°	140.3	144.0	147.7	149.6
17.5°	133.0	140.3	144.0	145.9
20°	125.6	134.8	140.3	142.2
22.5°	120.0	129.3	136.7	140.3
25°	112.6	125.6	134.8	138.5
27.5°	105.3	120.0	131.1	136.7
30°	99.7	118.2	131.1	136.7
32.5°	94.2	114.5	129.3	134.8
35°	90.5	112.6	129.3	136.7
37.5°	86.8	110.8	129.3	134.8
40°	84.9	109.0	129.3	134.8
42.5°	83.1	109.0	129.3	136.7
45°	79.4	107.1	129.3	136.7
47.5°	77.6	107.1	129.3	136.7
50°	75.7	105.3	129.3	138.5
52.5°	73.9	103.4	129.3	138.5
55°	70.2	101.6	127.4	136.7
57.5°	68.3	99.7	125.6	133.0
60°	64.6	96.0	121.9	131.1
62.5°	60.9	92.3	118.2	125.6
65°	55.4	86.8	112.6	121.9
67.5°	49.9	79.4	107.1	116.3
70°	44.3	72.0	99.7	107.1
72.5°	38.8	64.6	92.3	97.9
75°	33.2	55.4	81.3	88.6
77.5°	27.7	48.0	68.3	73.9
80°	20.3	36.9	55.4	60.9
82.5°	16.6	27.7	40.6	44.3
85°	11.1	18.5	25.9	29.5
87.5°	5.5	9.2	12.9	14.8
90°	0.0	0.0	0.0	0.0

(END OF REPORT)