

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: P1315542

Luminaire Tested: P3SQAS17R459740DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1315542
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: P3SQAS17R459740DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R45 optic, 4000K CCT AND, 97CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

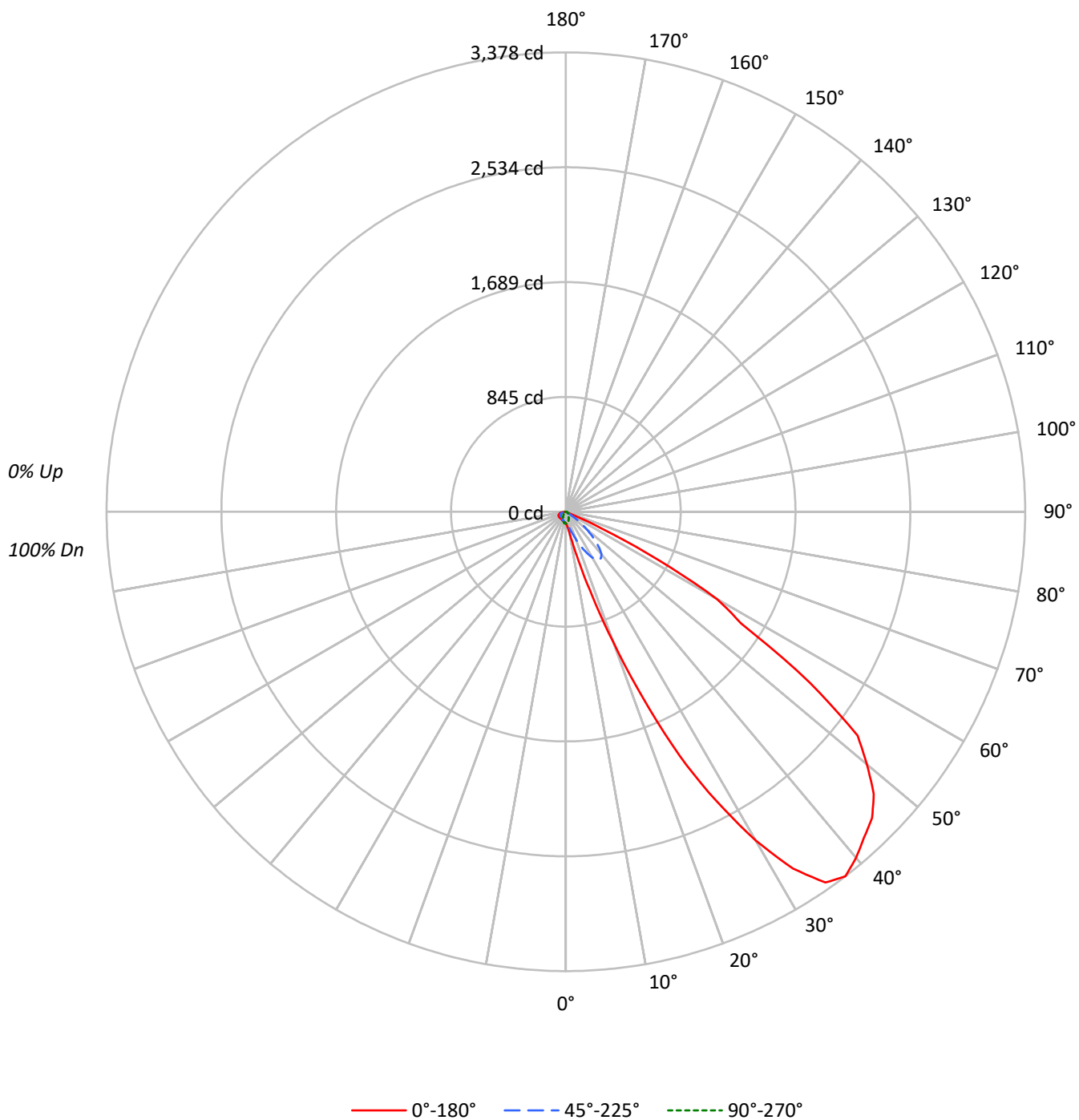
Lumens per Lamp: N/A
Luminaire Lumens: 1509.0 lumens
Efficiency: N/A
Efficacy: 71.2 lumens/watt
Spacing Criteria (0/90/45): 3.81 / 0.82 / 1.83
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	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°	15035	15035	15035	15035	15035
5°	17893	16597	14868	13796	13796
10°	28558	19412	13955	13081	13081
15°	71141	26014	12677	12231	12677
20°	187381	38854	10960	11656	12334
25°	376253	57578	9482	10908	12086
30°	554676	77120	7696	10659	12389
35°	699653	90447	6560	10491	12846
40°	746495	91390	5890	10926	13737
45°	775616	76234	5456	11837	14881
50°	774374	53104	5332	12700	16692
55°	658172	23601	5615	14232	18346
60°	442371	4719	5580	15879	21046
65°	117364	2038	5583	17279	23880
70°	3122	2518	5640	18833	26990
75°	2462	2462	5789	19896	30676
80°	2479	3670	6149	21026	34613
85°	2371	4940	9880	22132	34581

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 10°

Vertical Angle: 47.5°

Luminance: 795585 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.7	0.6
10°-20°	42.6	2.8
20°-30°	175.5	11.6
30°-40°	370.0	24.5
40°-50°	456.5	30.2
50°-60°	342.1	22.7
60°-70°	88.0	5.8
70°-80°	18.2	1.2
80°-90°	7.4	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°	226.8	15.0
0°-40°	596.8	39.5
0°-60°	1395.3	92.5
0°-90°	1509.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1509.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	87	87	87	87	87	
5°	104	96	86	80	80	12
15°	399	146	71	69	71	146
25°	1980	303	50	57	64	923
35°	3328	430	31	50	61	2028
45°	3184	313	22	49	61	2437
55°	2192	79	19	47	61	1893
65°	288	5	14	42	59	415
75°	4	4	9	30	46	4
85°	1	2	5	11	18	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°	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3
2.5°	92.3	92.3	92.3	92.3	92.3	92.3	92.3	91.0	89.8	87.3	84.8
5°	103.5	102.2	102.2	102.2	101.0	99.7	99.7	96.0	91.0	86.0	82.3
7.5°	122.2	122.2	120.9	118.5	117.2	114.7	112.2	102.2	91.0	83.5	78.6
10°	163.3	160.8	157.1	154.6	148.4	139.6	133.4	111.0	89.8	79.8	76.1
12.5°	244.4	249.4	236.9	224.4	207.0	190.8	170.8	125.9	89.8	76.1	72.3
15°	399.0	407.7	384.0	359.1	316.7	276.8	239.4	145.9	87.3	71.1	67.3
17.5°	652.1	663.3	623.4	564.8	498.7	418.9	350.4	173.3	84.8	66.1	63.6
20°	1022.4	1021.2	943.9	870.3	743.1	625.9	497.5	212.0	81.0	59.8	59.8
22.5°	1477.5	1482.5	1387.7	1255.6	1074.8	886.5	682.0	256.9	76.1	54.9	56.1
25°	1980.0	1937.6	1825.4	1664.5	1433.9	1173.3	904.0	303.0	71.1	49.9	52.4
27.5°	2398.9	2357.8	2229.4	2038.6	1790.5	1481.3	1129.6	349.1	64.8	44.9	48.6
30°	2789.2	2736.8	2582.2	2366.5	2071.0	1736.9	1341.6	387.8	57.4	38.7	44.9
32.5°	3110.9	3063.5	2887.7	2637.1	2315.4	1956.3	1521.2	417.7	49.9	34.9	42.4
35°	3327.8	3279.2	3117.1	2841.6	2491.2	2115.9	1667.0	430.2	43.6	31.2	41.1
37.5°	3377.7	3351.5	3235.6	2977.5	2612.2	2218.1	1760.6	426.4	36.2	28.7	38.7
40°	3320.4	3326.6	3271.7	3057.3	2677.0	2261.8	1799.2	406.5	29.9	26.2	37.4
42.5°	3246.8	3263.0	3259.3	3089.7	2704.4	2264.3	1783.0	366.6	23.7	23.7	36.2
45°	3184.5	3200.7	3223.1	3076.0	2685.7	2231.9	1731.9	313.0	17.5	22.4	36.2
47.5°	3071.0	3088.4	3120.9	2966.3	2591.0	2148.3	1639.6	254.4	12.5	21.2	34.9
50°	2890.2	2898.9	2890.2	2716.9	2408.9	2013.7	1490.0	198.2	8.7	19.9	34.9
52.5°	2704.4	2687.0	2614.6	2395.2	2119.6	1800.5	1301.7	140.9	6.2	18.7	33.7
55°	2192.0	2164.5	2110.9	1976.3	1819.2	1538.6	1052.3	78.6	6.2	18.7	32.4
57.5°	1527.4	1542.4	1561.1	1533.6	1461.3	1211.9	799.2	34.9	6.2	17.5	32.4
60°	1284.3	1271.8	1273.0	1255.6	1135.9	884.0	549.9	13.7	6.2	16.2	31.2
62.5°	766.8	775.5	791.7	795.5	677.0	493.8	288.0	6.2	6.2	15.0	29.9
65°	288.0	301.7	264.3	229.4	182.0	133.4	67.3	5.0	7.5	13.7	27.4
67.5°	8.7	10.0	12.5	11.2	11.2	10.0	7.5	5.0	7.5	12.5	26.2
70°	6.2	6.2	6.2	6.2	6.2	5.0	5.0	5.0	6.2	11.2	23.7
72.5°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	6.2	10.0	21.2
75°	3.7	5.0	3.7	3.7	3.7	3.7	3.7	3.7	6.2	8.7	17.5
77.5°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	5.0	7.5	15.0
80°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3.7	5.0	6.2	12.5
82.5°	2.5	2.5	2.5	1.2	2.5	2.5	2.5	2.5	5.0	5.0	10.0
85°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.5	3.7	5.0	6.2
87.5°	0.0	0.0	0.0	0.0	1.2	1.2	1.2	2.5	3.7	3.7	3.7
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°	87.3	87.3	87.3
2.5°	82.3	82.3	82.3
5°	79.8	79.8	79.8
7.5°	77.3	77.3	77.3
10°	74.8	74.8	74.8
12.5°	72.3	72.3	73.6
15°	68.6	71.1	71.1
17.5°	66.1	68.6	69.8
20°	63.6	66.1	67.3
22.5°	59.8	63.6	66.1
25°	57.4	62.3	63.6
27.5°	54.9	61.1	63.6
30°	53.6	59.8	62.3
32.5°	51.1	58.6	61.1
35°	49.9	58.6	61.1
37.5°	49.9	57.4	61.1
40°	48.6	57.4	61.1
42.5°	48.6	57.4	61.1
45°	48.6	57.4	61.1
47.5°	47.4	57.4	62.3
50°	47.4	58.6	62.3
52.5°	47.4	58.6	62.3
55°	47.4	58.6	61.1
57.5°	46.1	57.4	61.1
60°	46.1	57.4	61.1
62.5°	43.6	56.1	59.8
65°	42.4	54.9	58.6
67.5°	39.9	53.6	56.1
70°	37.4	49.9	53.6
72.5°	33.7	47.4	51.1
75°	29.9	43.6	46.1
77.5°	26.2	38.7	41.1
80°	21.2	32.4	34.9
82.5°	16.2	24.9	26.2
85°	11.2	16.2	17.5
87.5°	5.0	7.5	8.7
90°	0.0	0.0	0.0

(END OF REPORT)