

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: P1309324

Luminaire Tested: P3SQAS17R459035DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1309324
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: P3SQAS17R459035DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R45 optic, 3500K CCT AND, 90CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

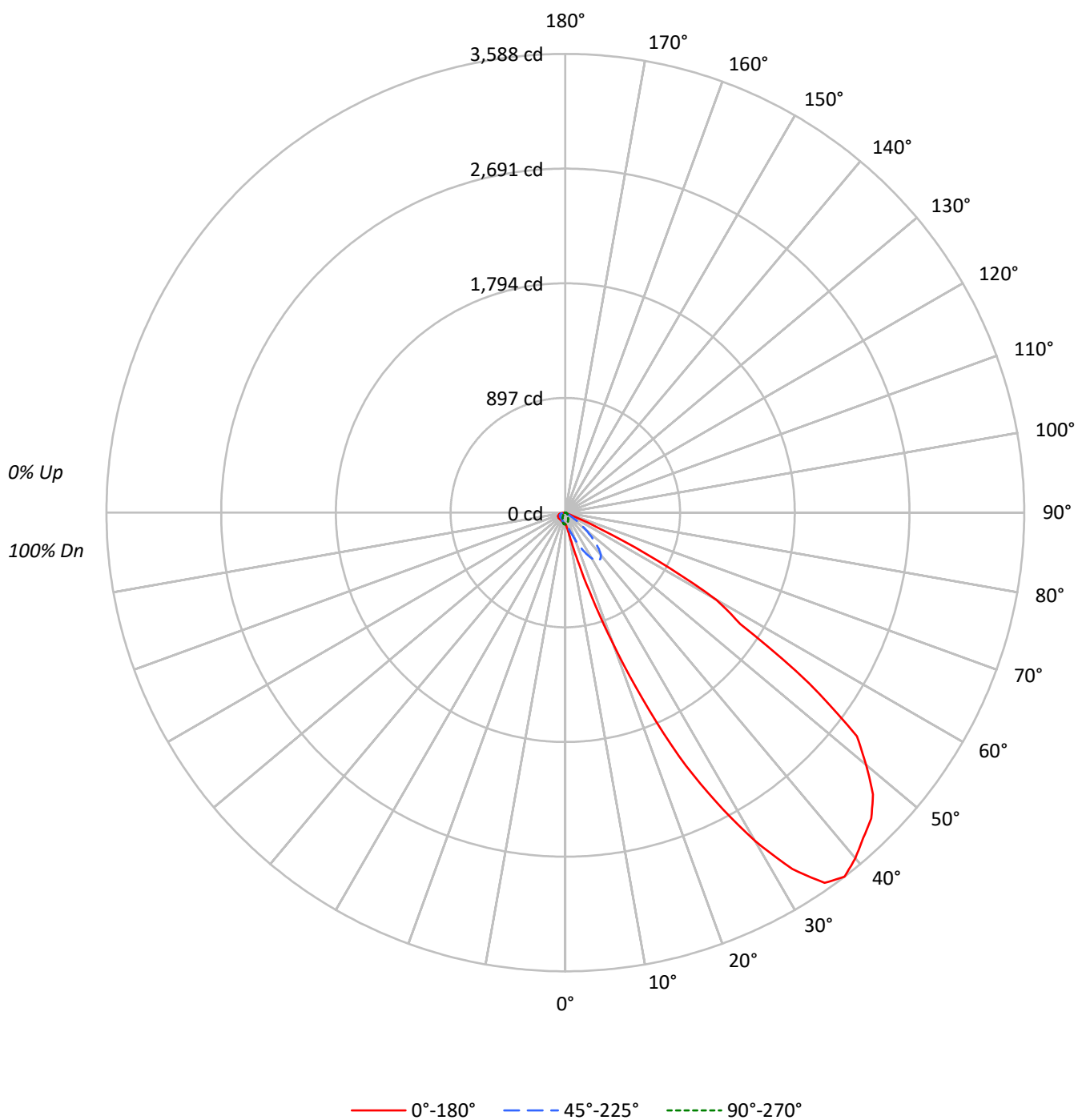
Lumens per Lamp: N/A
Luminaire Lumens: 1603.0 lumens
Efficiency: N/A
Efficacy: 75.6 lumens/watt
Spacing Criteria (0/90/45): 3.81 / 0.82 / 1.83
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	110	106	102	99	107	104	100	97	99	97	94		96	93	91		92
2	100	93	86	81	98	91	85	80	87	83	78		84	80	77		81
3	91	81	73	67	89	80	72	66	77	70	65		74	69	64		71
4	83	71	62	56	81	70	62	55	67	60	55		65	59	54		63
5	76	63	53	47	73	61	53	46	59	52	46		57	51	45		55
6	69	55	46	39	67	54	46	39	52	45	39		51	44	39		49
7	63	49	40	34	61	48	40	33	47	39	33		45	38	33		44
8	58	44	35	29	56	43	35	29	42	34	29		40	33	28		39
9	53	39	31	25	52	39	30	25	38	30	25		36	29	25		35
10	49	36	27	22	48	35	27	22	34	27	21		33	26	21		32

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	15965	15965	15965	15965	15965
5°	19000	17634	15801	14660	14660
10°	30342	20618	14830	13903	13903
15°	75563	27636	13461	12980	13461
20°	199056	41274	11656	12389	13104
25°	399683	61170	10071	11573	12846
30°	589239	81913	8173	11335	13165
35°	743237	96082	6959	11143	13645
40°	792988	97078	6250	11623	14591
45°	823913	80984	5797	12592	15807
50°	822601	56426	5680	13477	17737
55°	699158	25042	5975	15103	19487
60°	469927	5029	5924	16878	22354
65°	124699	2160	5950	18338	25388
70°	3323	2669	5992	19991	28702
75°	2662	2662	6188	21160	32605
80°	2579	3967	6546	22315	36795
85°	2569	5138	10473	23515	36557

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 10°

Vertical Angle: 47.5°

Luminance: 845142 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.2	0.6
10°-20°	45.2	2.8
20°-30°	186.5	11.6
30°-40°	393.0	24.5
40°-50°	484.9	30.2
50°-60°	363.4	22.7
60°-70°	93.5	5.8
70°-80°	19.4	1.2
80°-90°	7.9	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°	240.9	15.0
0°-40°	633.9	39.5
0°-60°	1482.2	92.5
0°-90°	1603.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1603.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	93	93	93	93	93	
5°	110	102	91	85	85	12
15°	424	155	76	73	76	155
25°	2103	322	53	61	68	980
35°	3535	457	33	53	65	2154
45°	3383	332	24	52	65	2589
55°	2328	83	20	50	65	2011
65°	306	5	15	45	62	441
75°	4	4	9	32	49	5
85°	1	3	5	12	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°	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
2.5°	98.0	98.0	98.0	98.0	98.0	98.0	98.0	96.7	95.4	92.7	90.1
5°	109.9	108.6	108.6	108.6	107.3	106.0	106.0	102.0	96.7	91.4	87.4
7.5°	129.8	129.8	128.5	125.8	124.5	121.9	119.2	108.6	96.7	88.7	83.4
10°	173.5	170.9	166.9	164.2	157.6	148.3	141.7	117.9	95.4	84.8	80.8
12.5°	259.6	264.9	251.7	238.4	219.9	202.7	181.5	133.8	95.4	80.8	76.8
15°	423.8	433.1	408.0	381.5	336.4	294.0	254.3	155.0	92.7	75.5	71.5
17.5°	692.7	704.6	662.3	600.0	529.8	445.0	372.2	184.1	90.1	70.2	67.6
20°	1086.1	1084.8	1002.7	924.5	789.4	664.9	528.5	225.2	86.1	63.6	63.6
22.5°	1569.6	1574.9	1474.2	1333.8	1141.7	941.7	724.5	272.9	80.8	58.3	59.6
25°	2103.3	2058.3	1939.1	1768.2	1523.2	1246.4	960.3	321.9	75.5	53.0	55.6
27.5°	2548.4	2504.7	2368.2	2165.6	1902.0	1573.5	1200.0	370.9	68.9	47.7	51.7
30°	2963.0	2907.3	2743.1	2513.9	2200.0	1845.1	1425.2	411.9	60.9	41.1	47.7
32.5°	3304.7	3254.3	3067.6	2801.4	2459.6	2078.2	1615.9	443.7	53.0	37.1	45.0
35°	3535.1	3483.5	3311.3	3018.6	2646.4	2247.7	1770.9	457.0	46.4	33.1	43.7
37.5°	3588.1	3560.3	3437.1	3163.0	2774.9	2356.3	1870.2	453.0	38.4	30.5	41.1
40°	3527.2	3533.8	3475.5	3247.7	2843.7	2402.7	1911.3	431.8	31.8	27.8	39.7
42.5°	3449.1	3466.3	3462.3	3282.2	2872.9	2405.3	1894.1	389.4	25.2	25.2	38.4
45°	3382.8	3400.0	3423.9	3267.6	2853.0	2370.9	1839.8	332.5	18.5	23.8	38.4
47.5°	3262.3	3280.8	3315.3	3151.0	2752.4	2282.1	1741.7	270.2	13.2	22.5	37.1
50°	3070.2	3079.5	3070.2	2886.1	2559.0	2139.1	1582.8	210.6	9.3	21.2	37.1
52.5°	2872.9	2854.3	2777.5	2544.4	2251.7	1912.6	1382.8	149.7	6.6	19.9	35.8
55°	2328.5	2299.4	2242.4	2099.4	1932.5	1634.5	1117.9	83.4	6.6	19.9	34.4
57.5°	1622.5	1638.4	1658.3	1629.2	1552.3	1287.4	849.0	37.1	6.6	18.5	34.4
60°	1364.3	1351.0	1352.3	1333.8	1206.6	939.1	584.1	14.6	6.6	17.2	33.1
62.5°	814.6	823.9	841.1	845.0	719.2	524.5	306.0	6.6	6.6	15.9	31.8
65°	306.0	320.5	280.8	243.7	193.4	141.7	71.5	5.3	7.9	14.6	29.1
67.5°	9.3	10.6	13.2	11.9	11.9	10.6	7.9	5.3	7.9	13.2	27.8
70°	6.6	6.6	6.6	6.6	6.6	5.3	5.3	5.3	6.6	11.9	25.2
72.5°	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	6.6	10.6	22.5
75°	4.0	5.3	4.0	4.0	4.0	4.0	4.0	4.0	6.6	9.3	18.5
77.5°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	5.3	7.9	15.9
80°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	4.0	5.3	6.6	13.2
82.5°	2.6	2.6	2.6	1.3	2.6	2.6	2.6	2.6	5.3	5.3	10.6
85°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.6	4.0	5.3	6.6
87.5°	0.0	0.0	0.0	0.0	1.3	1.3	1.3	2.6	4.0	4.0	4.0
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°	92.7	92.7	92.7
2.5°	87.4	87.4	87.4
5°	84.8	84.8	84.8
7.5°	82.1	82.1	82.1
10°	79.5	79.5	79.5
12.5°	76.8	76.8	78.1
15°	72.8	75.5	75.5
17.5°	70.2	72.8	74.2
20°	67.6	70.2	71.5
22.5°	63.6	67.6	70.2
25°	60.9	66.2	67.6
27.5°	58.3	64.9	67.6
30°	57.0	63.6	66.2
32.5°	54.3	62.3	64.9
35°	53.0	62.3	64.9
37.5°	53.0	60.9	64.9
40°	51.7	60.9	64.9
42.5°	51.7	60.9	64.9
45°	51.7	60.9	64.9
47.5°	50.3	60.9	66.2
50°	50.3	62.3	66.2
52.5°	50.3	62.3	66.2
55°	50.3	62.3	64.9
57.5°	49.0	60.9	64.9
60°	49.0	60.9	64.9
62.5°	46.4	59.6	63.6
65°	45.0	58.3	62.3
67.5°	42.4	57.0	59.6
70°	39.7	53.0	57.0
72.5°	35.8	50.3	54.3
75°	31.8	46.4	49.0
77.5°	27.8	41.1	43.7
80°	22.5	34.4	37.1
82.5°	17.2	26.5	27.8
85°	11.9	17.2	18.5
87.5°	5.3	7.9	9.3
90°	0.0	0.0	0.0

(END OF REPORT)