

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: P1318181

Luminaire Tested: P3SQAS17R459835DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1318181
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: P3SQAS17R459835DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R45 optic, 3500K CCT AND, 98CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

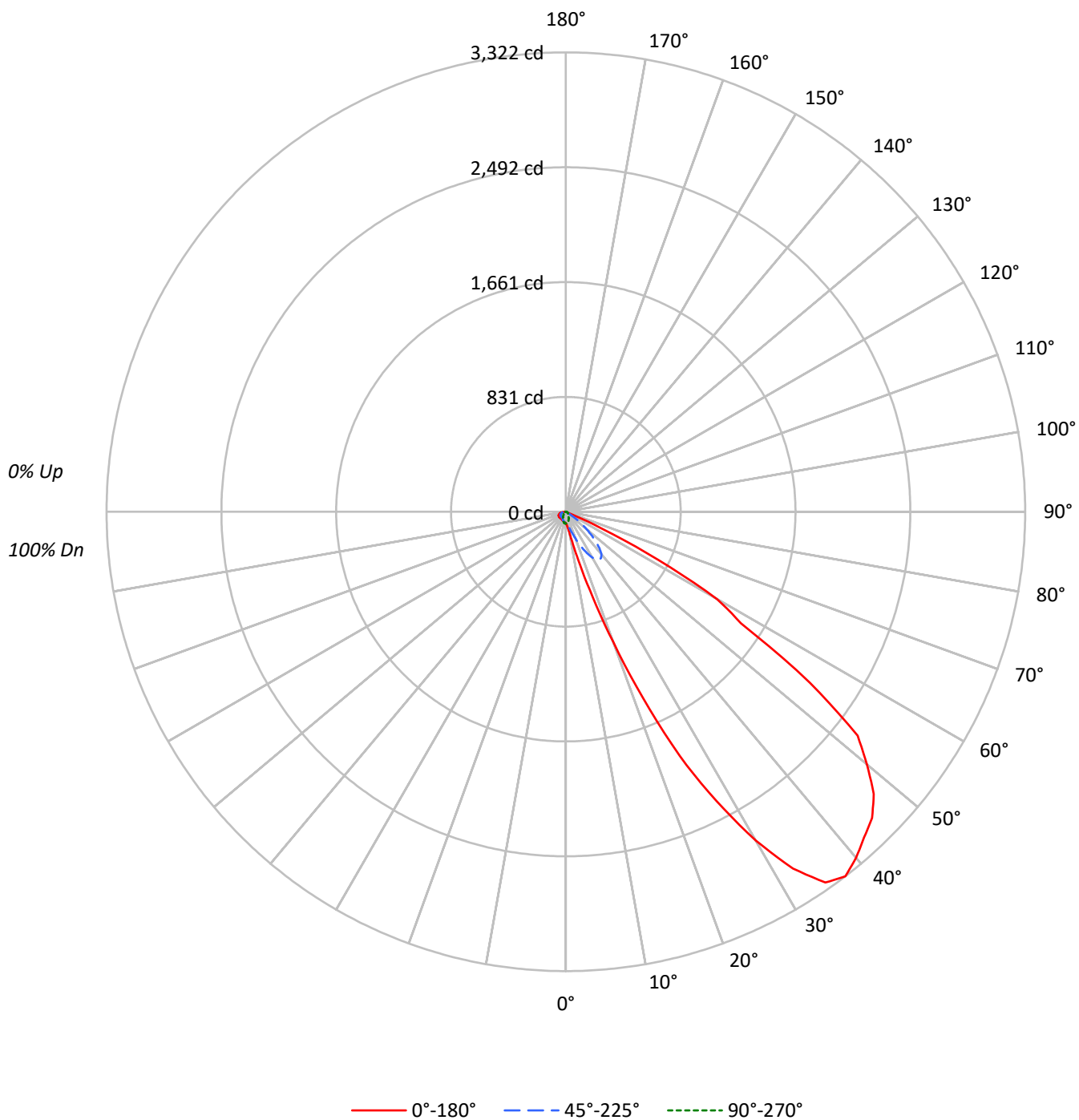
Lumens per Lamp: N/A
Luminaire Lumens: 1484.0 lumens
Efficiency: N/A
Efficacy: 72.7 lumens/watt
Spacing Criteria (0/90/45): 3.81 / 0.82 / 1.83
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 20.4
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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53
5	76	63	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38
7	63	49	40	34	61	48	40	33	47	39	33	45	38	33	44	37	33
8	58	44	35	29	56	43	35	29	42	34	29	40	33	28	39	33	28
9	53	39	31	25	52	39	30	25	38	30	25	36	29	25	35	29	24
10	49	36	27	22	48	35	27	22	34	27	21	33	26	21	32	26	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	14777	14777	14777	14777	14777
5°	17599	16320	14626	13571	13571
10°	28086	19079	13728	12871	12871
15°	69964	25586	12463	12017	12463
20°	184284	38213	10795	11455	12133
25°	370020	56628	9311	10718	11877
30°	545488	75827	7557	10480	12190
35°	688069	88934	6455	10302	12636
40°	734129	89861	5800	10746	13512
45°	762756	74968	5383	11642	14638
50°	761540	52247	5251	12486	16424
55°	647243	23210	5525	13992	18046
60°	435034	4650	5477	15638	20701
65°	115449	1997	5501	16993	23473
70°	3072	2467	5539	18530	26537
75°	2462	2462	5723	19563	30210
80°	2479	3670	6050	20629	34018
85°	2371	4940	9683	21736	33988

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 10°

Vertical Angle: 47.5°

Luminance: 782406 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.5	0.6
10°-20°	41.9	2.8
20°-30°	172.6	11.6
30°-40°	363.8	24.5
40°-50°	448.9	30.2
50°-60°	336.5	22.7
60°-70°	86.6	5.8
70°-80°	17.9	1.2
80°-90°	7.3	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°	223.0	15.0
0°-40°	586.9	39.5
0°-60°	1372.2	92.5
0°-90°	1484.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1484.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	86	86	86	86	86	
5°	102	94	85	78	78	11
15°	392	144	70	67	70	144
25°	1947	298	49	56	62	907
35°	3273	423	31	49	60	1994
45°	3132	308	22	48	60	2396
55°	2156	77	18	47	60	1861
65°	283	5	14	42	58	408
75°	4	4	9	29	45	4
85°	1	2	5	11	17	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°	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
2.5°	90.7	90.7	90.7	90.7	90.7	90.7	90.7	89.5	88.3	85.8	83.4
5°	101.8	100.5	100.5	100.5	99.3	98.1	98.1	94.4	89.5	84.6	80.9
7.5°	120.2	120.2	118.9	116.5	115.3	112.8	110.4	100.5	89.5	82.2	77.3
10°	160.6	158.2	154.5	152.0	145.9	137.3	131.2	109.1	88.3	78.5	74.8
12.5°	240.3	245.2	233.0	220.7	203.5	187.6	168.0	123.8	88.3	74.8	71.1
15°	392.4	401.0	377.7	353.1	311.5	272.2	235.4	143.5	85.8	69.9	66.2
17.5°	641.3	652.3	613.1	555.5	490.5	412.0	344.6	170.4	83.4	65.0	62.5
20°	1005.5	1004.3	928.2	855.9	730.8	615.5	489.3	208.5	79.7	58.9	58.9
22.5°	1453.0	1457.9	1364.8	1234.8	1057.0	871.8	670.7	252.6	74.8	54.0	55.2
25°	1947.2	1905.5	1795.1	1637.0	1410.1	1153.8	889.0	298.0	69.9	49.0	51.5
27.5°	2359.2	2318.7	2192.4	2004.8	1760.8	1456.7	1110.9	343.3	63.8	44.1	47.8
30°	2743.0	2691.5	2539.4	2327.3	2036.7	1708.1	1319.4	381.3	56.4	38.0	44.1
32.5°	3059.4	3012.8	2839.9	2593.4	2277.0	1923.9	1496.0	410.8	49.0	34.3	41.7
35°	3272.7	3224.9	3065.5	2794.5	2449.9	2080.8	1639.4	423.0	42.9	30.7	40.5
37.5°	3321.8	3296.0	3182.0	2928.1	2568.9	2181.4	1731.4	419.4	35.6	28.2	38.0
40°	3265.4	3271.5	3217.5	3006.6	2632.6	2224.3	1769.4	399.7	29.4	25.8	36.8
42.5°	3193.0	3208.9	3205.3	3038.5	2659.6	2226.8	1753.5	360.5	23.3	23.3	35.6
45°	3131.7	3147.6	3169.7	3025.0	2641.2	2194.9	1703.2	307.8	17.2	22.1	35.6
47.5°	3020.1	3037.3	3069.2	2917.1	2548.0	2112.7	1612.4	250.1	12.3	20.8	34.3
50°	2842.3	2850.9	2842.3	2671.9	2369.0	1980.3	1465.3	195.0	8.6	19.6	34.3
52.5°	2659.6	2642.4	2571.3	2355.5	2084.5	1770.6	1280.1	138.6	6.1	18.4	33.1
55°	2155.6	2128.7	2075.9	1943.5	1789.0	1513.1	1034.9	77.3	6.1	18.4	31.9
57.5°	1502.1	1516.8	1535.2	1508.2	1437.1	1191.9	786.0	34.3	6.1	17.2	31.9
60°	1263.0	1250.7	1251.9	1234.8	1117.1	869.4	540.8	13.5	6.1	15.9	30.7
62.5°	754.1	762.7	778.6	782.3	665.8	485.6	283.3	6.1	6.1	14.7	29.4
65°	283.3	296.7	260.0	225.6	179.0	131.2	66.2	4.9	7.4	13.5	27.0
67.5°	8.6	9.8	12.3	11.0	11.0	9.8	7.4	4.9	7.4	12.3	25.8
70°	6.1	6.1	6.1	6.1	6.1	4.9	4.9	4.9	6.1	11.0	23.3
72.5°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	6.1	9.8	20.8
75°	3.7	4.9	3.7	3.7	3.7	3.7	3.7	3.7	6.1	8.6	17.2
77.5°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	4.9	7.4	14.7
80°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3.7	4.9	6.1	12.3
82.5°	2.5	2.5	2.5	1.2	2.5	2.5	2.5	2.5	4.9	4.9	9.8
85°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.5	3.7	4.9	6.1
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°	85.8	85.8	85.8
2.5°	80.9	80.9	80.9
5°	78.5	78.5	78.5
7.5°	76.0	76.0	76.0
10°	73.6	73.6	73.6
12.5°	71.1	71.1	72.3
15°	67.4	69.9	69.9
17.5°	65.0	67.4	68.7
20°	62.5	65.0	66.2
22.5°	58.9	62.5	65.0
25°	56.4	61.3	62.5
27.5°	54.0	60.1	62.5
30°	52.7	58.9	61.3
32.5°	50.3	57.6	60.1
35°	49.0	57.6	60.1
37.5°	49.0	56.4	60.1
40°	47.8	56.4	60.1
42.5°	47.8	56.4	60.1
45°	47.8	56.4	60.1
47.5°	46.6	56.4	61.3
50°	46.6	57.6	61.3
52.5°	46.6	57.6	61.3
55°	46.6	57.6	60.1
57.5°	45.4	56.4	60.1
60°	45.4	56.4	60.1
62.5°	42.9	55.2	58.9
65°	41.7	54.0	57.6
67.5°	39.2	52.7	55.2
70°	36.8	49.0	52.7
72.5°	33.1	46.6	50.3
75°	29.4	42.9	45.4
77.5°	25.8	38.0	40.5
80°	20.8	31.9	34.3
82.5°	15.9	24.5	25.8
85°	11.0	15.9	17.2
87.5°	4.9	7.4	8.6
90°	0.0	0.0	0.0

(END OF REPORT)