

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: P1311996

Luminaire Tested: P3SQAS02R509727DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1311996
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: P3SQAS02R509727DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R50 optic, 2700K CCT AND, 97CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

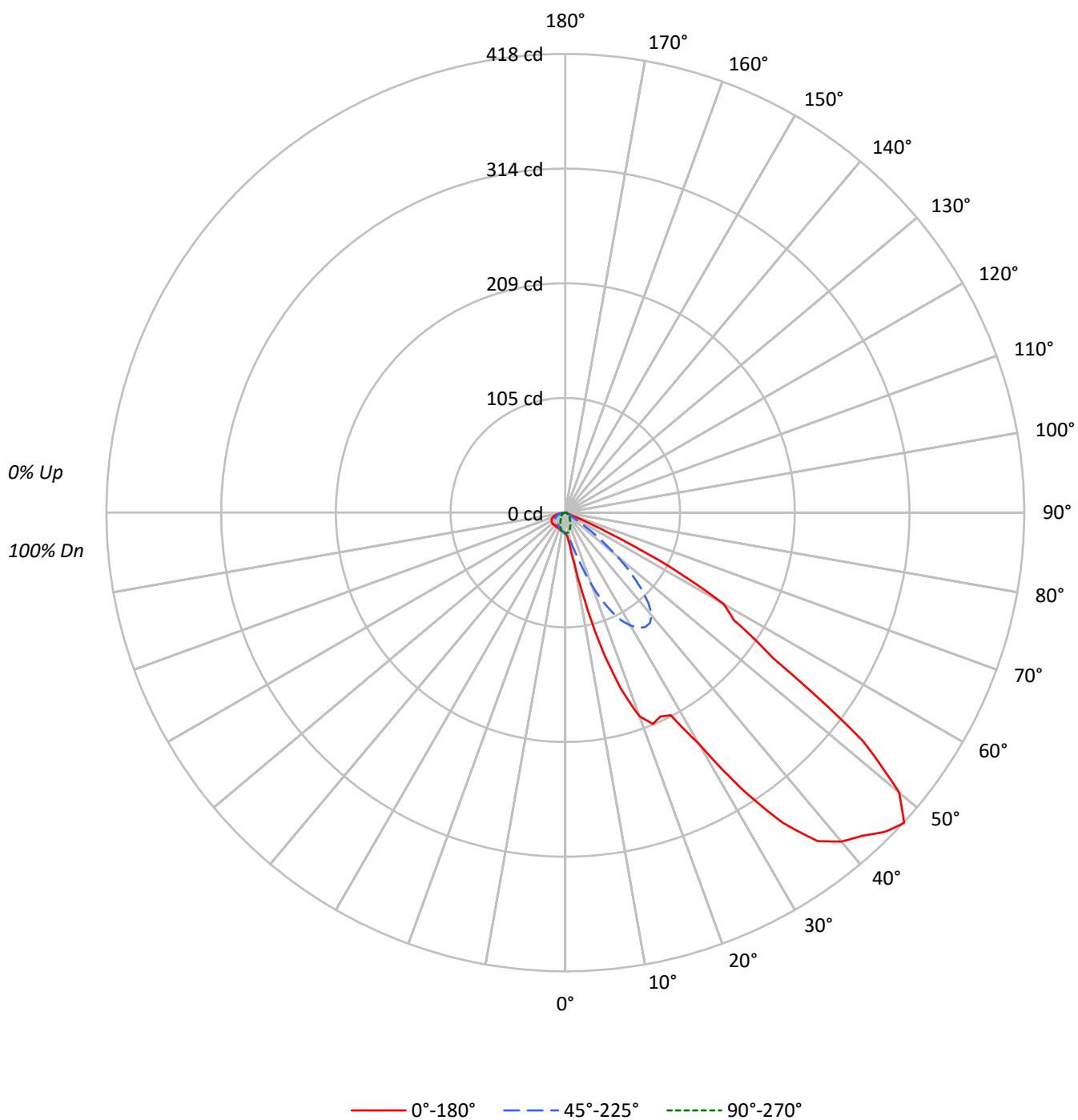
Lumens per Lamp: N/A
Luminaire Lumens: 236.0 lumens
Efficiency: N/A
Efficacy: 65.5 lumens/watt
Spacing Criteria (0/90/45): 3.58 / 0.82 / 1.91
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 3.6
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	98	107	103	100	97	99	96	94	95	93	91	92	90	88
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	50	43	39
7	63	50	41	34	62	49	40	34	47	39	34	46	39	34	44	38	33
8	58	44	36	30	57	44	35	29	42	35	29	41	34	29	40	34	29
9	54	40	31	26	53	39	31	26	38	31	25	37	30	25	36	30	25
10	50	36	28	23	49	36	28	22	35	27	22	34	27	22	33	27	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	3238	3238	3238	3238	3238
5°	3838	3596	3198	3060	3025
10°	8272	4459	3060	2955	2990
15°	22893	7310	2764	2835	2942
20°	36197	12811	2383	2731	2877
25°	38936	18832	2052	2641	2907
30°	48324	23625	1790	2585	3003
35°	72514	26743	1535	2607	3175
40°	87950	27496	1371	2698	3350
45°	100200	23577	1340	2874	3678
50°	106342	16263	1366	3108	4099
55°	69480	6546	1351	3363	4534
60°	57281	1137	1343	3651	4994
65°	17279	571	1263	3912	5501
70°	705	604	1209	3978	5942
75°	665	665	1198	4059	6521
80°	595	595	1190	4066	6645
85°	395	790	1581	3952	6521

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 47.5°

Luminance: 106685 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.0	0.8
10°-20°	11.2	4.7
20°-30°	28.7	12.2
30°-40°	51.6	21.9
40°-50°	68.9	29.2
50°-60°	52.5	22.2
60°-70°	15.9	6.7
70°-80°	3.8	1.6
80°-90°	1.4	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°	41.9	17.7
0°-40°	93.5	39.6
0°-60°	214.9	91.1
0°-90°	236.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	236.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	19	19	19	19	19	
5°	22	21	18	18	18	3
15°	128	41	16	16	16	38
25°	205	99	11	14	15	98
35°	345	127	7	12	15	212
45°	411	97	6	12	15	315
55°	231	22	4	11	15	230
65°	42	1	3	10	14	59
75°	1	1	2	6	10	1
85°	0	0	1	2	3	0
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°	18.8	18.8	18.8	18.8	18.8	18.8	18.8	18.8	18.8	18.8	18.8
2.5°	20.0	20.0	20.0	20.0	20.0	20.0	19.8	19.8	19.8	19.4	19.0
5°	22.2	22.4	22.2	22.2	21.8	21.8	21.4	21.4	20.8	19.6	18.5
7.5°	29.1	28.9	28.7	27.9	27.3	25.9	25.3	24.3	22.4	19.6	18.1
10°	47.3	46.1	45.3	43.4	39.5	37.1	33.8	30.6	25.5	19.6	17.5
12.5°	82.1	81.9	79.5	73.4	67.9	60.3	52.4	44.4	31.4	19.2	16.7
15°	128.4	126.6	123.1	116.0	106.2	94.4	80.1	66.0	41.0	18.5	15.5
17.5°	168.0	165.7	163.1	155.9	144.7	129.8	112.7	93.4	54.0	17.7	14.3
20°	197.5	196.1	193.9	188.1	177.5	164.1	144.9	121.5	69.9	16.7	13.0
22.5°	208.3	208.1	208.5	206.5	201.2	190.6	172.2	147.8	85.6	15.5	11.8
25°	204.9	204.7	207.3	210.0	211.2	206.9	192.8	169.0	99.1	14.5	10.8
27.5°	208.1	207.5	206.3	206.7	210.2	212.6	206.1	185.3	110.7	13.0	9.8
30°	243.0	239.5	234.0	224.6	217.7	217.1	214.2	198.1	118.8	11.6	9.0
32.5°	297.4	293.1	283.1	265.8	249.3	236.7	227.7	208.9	124.5	10.2	7.9
35°	344.9	341.8	330.2	313.1	289.5	265.8	249.5	224.8	127.2	9.0	7.3
37.5°	377.1	375.9	364.5	346.1	322.1	294.1	272.5	241.1	126.6	7.5	6.7
40°	391.2	387.5	377.9	362.4	338.2	313.1	290.3	251.5	122.3	6.1	6.1
42.5°	399.5	395.5	385.1	370.4	346.5	319.8	292.3	247.1	112.1	4.9	5.9
45°	411.4	407.1	393.4	377.7	353.7	322.7	284.4	231.2	96.8	3.7	5.5
47.5°	418.5	415.6	405.4	389.7	360.6	318.6	266.0	216.3	79.9	2.9	5.3
50°	396.9	394.0	386.5	375.7	356.1	304.9	249.9	192.2	60.7	2.2	5.1
52.5°	341.6	344.1	345.5	348.6	334.3	274.4	225.9	173.1	41.0	1.8	4.7
55°	231.4	235.0	239.1	251.3	268.1	244.2	200.6	149.6	21.8	1.8	4.5
57.5°	181.8	180.6	179.4	178.6	191.6	201.4	176.3	119.7	9.4	1.8	4.1
60°	166.3	162.7	160.2	160.8	167.4	163.5	139.6	78.1	3.3	1.8	3.9
62.5°	109.1	111.9	117.4	126.8	122.3	105.0	81.1	31.0	1.6	1.8	3.5
65°	42.4	41.0	42.4	45.0	38.9	28.9	18.1	5.5	1.4	1.6	3.1
67.5°	5.7	5.1	3.9	2.4	2.2	2.0	1.6	1.4	1.4	1.6	2.9
70°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.2	1.2	1.4	2.4
72.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.4	2.0
75°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.2	1.8
77.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.0	1.4
80°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.8	1.2
82.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.6	0.6	0.8	1.0
85°	0.2	0.4	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.6	0.8
87.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.6	0.6
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°	18.8	18.8	18.8	18.8
2.5°	18.5	18.1	18.1	18.1
5°	18.1	17.7	17.7	17.5
7.5°	17.5	17.3	17.3	17.3
10°	17.1	16.9	17.1	17.1
12.5°	16.3	16.5	16.7	16.7
15°	15.5	15.9	16.3	16.5
17.5°	14.7	15.5	15.9	16.1
20°	13.9	14.9	15.5	15.7
22.5°	13.2	14.3	15.1	15.5
25°	12.4	13.9	14.9	15.3
27.5°	11.6	13.2	14.5	15.1
30°	11.0	13.0	14.5	15.1
32.5°	10.4	12.6	14.3	14.9
35°	10.0	12.4	14.3	15.1
37.5°	9.6	12.2	14.3	14.9
40°	9.4	12.0	14.3	14.9
42.5°	9.2	12.0	14.3	15.1
45°	8.8	11.8	14.3	15.1
47.5°	8.6	11.8	14.3	15.1
50°	8.4	11.6	14.3	15.3
52.5°	8.2	11.4	14.3	15.3
55°	7.7	11.2	14.1	15.1
57.5°	7.5	11.0	13.9	14.7
60°	7.1	10.6	13.5	14.5
62.5°	6.7	10.2	13.0	13.9
65°	6.1	9.6	12.4	13.5
67.5°	5.5	8.8	11.8	12.8
70°	4.9	7.9	11.0	11.8
72.5°	4.3	7.1	10.2	10.8
75°	3.7	6.1	9.0	9.8
77.5°	3.1	5.3	7.5	8.2
80°	2.2	4.1	6.1	6.7
82.5°	1.8	3.1	4.5	4.9
85°	1.2	2.0	2.9	3.3
87.5°	0.6	1.0	1.4	1.6
90°	0.0	0.0	0.0	0.0

(END OF REPORT)