

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: P1312027

Luminaire Tested: P3SQAS02R709727DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1312027
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-83)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS02R709727DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R70 optic, 2700K CCT AND, 97CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

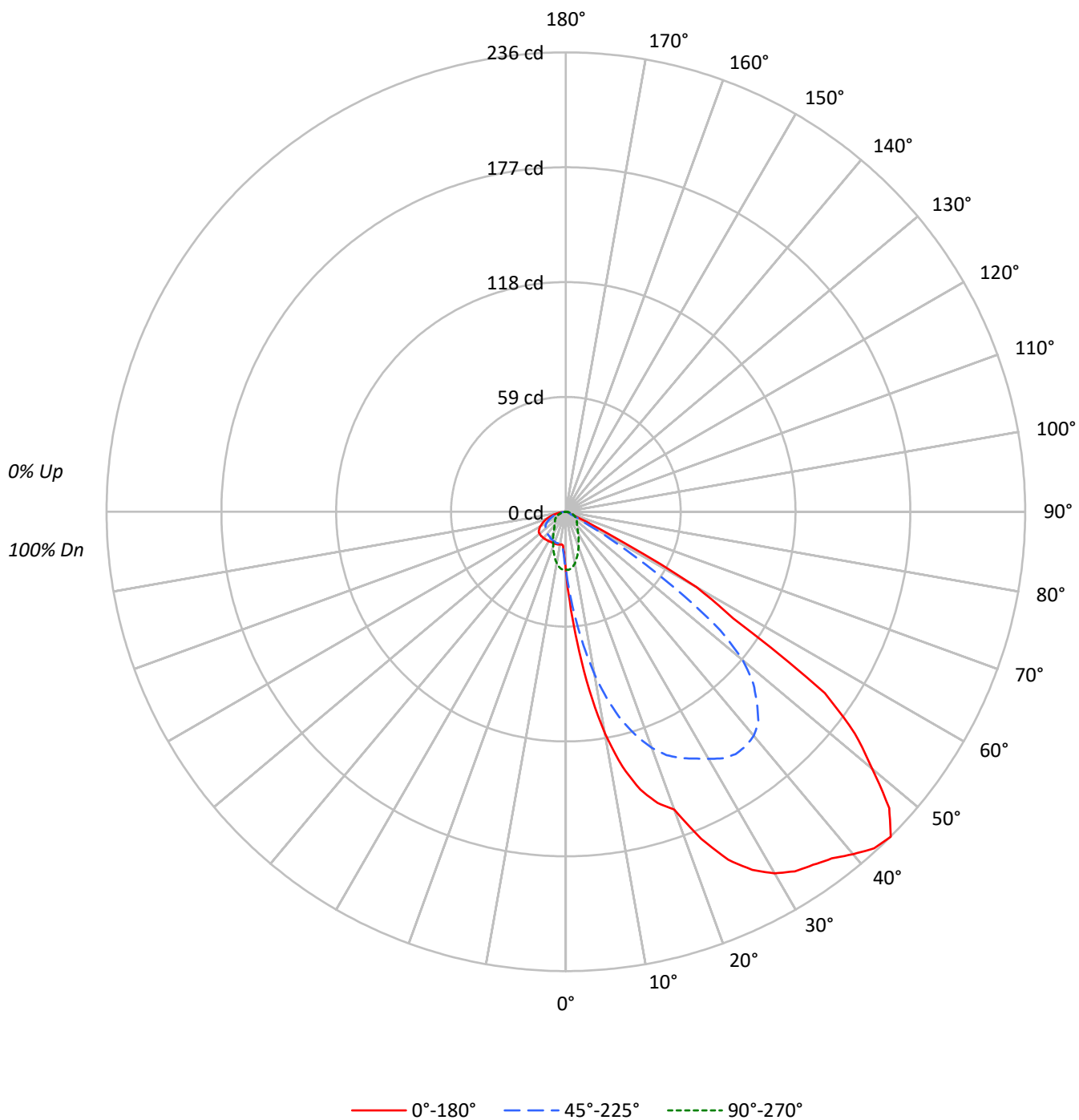
Lumens per Lamp: N/A
Luminaire Lumens: 204.0 lumens
Efficiency: N/A
Efficacy: 56.7 lumens/watt
Spacing Criteria (0/90/45): 2.92 / 0.77 / 2.03
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	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	103	99	108	104	101	98	100	97	95	96	94	92	93	91	89	87		
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	75		
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	74	69	66	64		
4	85	74	66	59	83	72	65	59	70	63	58	68	62	57	66	61	57	54		
5	78	66	57	51	76	65	57	51	63	55	50	61	54	49	59	53	49	47		
6	72	59	50	44	70	58	50	44	56	49	43	55	48	43	53	47	43	41		
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	35		
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33	31		
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28		
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	5115	5115	5115	5115	5115
5°	11652	9318	5065	3198	2991
10°	20181	14812	4704	2920	2990
15°	26352	19773	4101	2978	3085
20°	29837	23643	3501	3024	3207
25°	37473	26528	2945	3059	3287
30°	42657	29134	2506	3122	3480
35°	46548	31957	2187	3175	3679
40°	51619	33768	2023	3305	3979
45°	57504	33806	1973	3459	4311
50°	55087	31803	1956	3644	4689
55°	48762	20598	2012	3843	5074
60°	26695	4409	2032	3927	5270
65°	1915	1060	1997	3912	5298
70°	906	1007	1863	3676	5136
75°	799	1065	1730	3527	4724
80°	793	992	1587	3273	4463
85°	790	1186	1581	2766	3952

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 57504 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.9	1.9
10°-20°	16.6	8.1
20°-30°	31.8	15.6
30°-40°	45.0	22.1
40°-50°	50.9	24.9
50°-60°	40.3	19.8
60°-70°	10.9	5.3
70°-80°	3.6	1.8
80°-90°	1.1	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°	52.3	25.6
0°-40°	97.2	47.7
0°-60°	188.4	92.4
0°-90°	204.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	204.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	30	30	30	30	30	
5°	67	54	29	18	17	8
15°	148	111	23	17	17	42
25°	197	140	16	16	17	90
35°	221	152	10	15	18	139
45°	236	139	8	14	18	177
55°	162	69	7	13	17	132
65°	5	3	5	10	13	17
75°	1	2	3	5	7	1
85°	0	1	1	1	2	0
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°	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7
2.5°	46.2	46.2	46.0	45.2	44.8	43.8	42.9	40.7	35.2	29.9	25.6
5°	67.4	68.4	67.0	66.8	65.5	63.7	62.5	53.9	40.7	29.3	22.0
7.5°	92.4	92.8	92.4	90.4	88.5	85.5	82.6	69.2	46.2	28.3	19.3
10°	115.4	114.8	113.6	112.1	109.5	106.2	101.4	84.7	51.5	26.9	17.7
12.5°	134.1	133.9	132.5	131.1	127.8	123.5	118.7	98.7	56.0	25.0	16.9
15°	147.8	147.8	146.3	144.7	141.7	138.2	132.7	110.9	59.6	23.0	16.1
17.5°	156.9	156.5	155.5	154.3	151.8	148.4	144.1	120.7	62.1	21.0	15.9
20°	162.8	162.6	161.8	160.0	157.9	155.3	151.4	129.0	63.1	19.1	15.7
22.5°	181.8	180.1	177.1	173.2	168.3	162.0	156.7	135.3	62.7	17.1	15.3
25°	197.2	196.6	193.4	188.7	182.2	174.0	165.3	139.6	60.7	15.5	14.9
27.5°	207.4	206.4	203.3	198.2	191.3	183.4	175.2	142.9	57.8	14.0	14.2
30°	214.5	213.9	210.9	205.2	198.0	189.3	180.9	146.5	53.9	12.6	13.6
32.5°	219.0	218.4	215.3	210.2	203.3	194.2	184.6	150.2	49.3	11.4	13.0
35°	221.4	220.8	217.4	212.9	206.4	197.4	187.2	152.0	43.6	10.4	12.4
37.5°	224.5	223.3	218.6	213.1	206.6	198.2	188.1	151.8	37.9	9.6	12.0
40°	229.6	226.3	219.6	212.3	205.6	197.2	187.5	150.2	31.5	9.0	11.6
42.5°	234.5	229.8	219.8	211.1	203.5	195.4	185.2	146.5	24.6	8.5	11.4
45°	236.1	229.2	217.0	208.2	201.1	192.7	182.2	138.8	16.7	8.1	11.0
47.5°	225.3	220.2	210.0	203.5	196.8	188.7	177.7	130.7	9.6	7.7	10.6
50°	205.6	202.3	196.6	192.5	188.9	183.2	172.4	118.7	5.7	7.3	10.2
52.5°	187.2	186.2	182.2	178.9	176.9	174.2	164.5	100.1	4.7	7.1	9.8
55°	162.4	159.2	158.1	156.9	161.2	161.0	147.8	68.6	4.5	6.7	9.4
57.5°	102.0	103.4	108.7	118.5	130.1	136.8	136.4	36.6	4.3	6.3	8.8
60°	77.5	77.3	79.0	83.0	91.6	101.2	110.1	12.8	4.1	5.9	8.3
62.5°	23.2	23.8	28.7	42.1	50.5	62.3	56.8	3.1	3.9	5.3	7.5
65°	4.7	4.9	4.9	5.5	6.7	10.2	12.4	2.6	3.7	4.9	6.9
67.5°	2.0	2.0	2.0	2.2	2.2	2.6	2.2	2.4	3.3	4.3	6.1
70°	1.8	1.8	1.8	1.8	1.8	1.8	2.0	2.0	2.8	3.7	5.3
72.5°	1.4	1.4	1.4	1.6	1.6	1.6	1.6	1.8	2.4	3.1	4.5
75°	1.2	1.2	1.2	1.2	1.4	1.4	1.4	1.6	2.0	2.6	3.7
77.5°	1.0	1.0	1.0	1.0	1.0	1.2	1.2	1.2	1.6	2.0	3.1
80°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.0	1.2	1.6	2.2
82.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.8	1.0	1.2	1.6
85°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.6	0.6	0.8	1.0
87.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4	0.4	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):

	135°	157.5°	180°
0°	29.7	29.7	29.7
2.5°	22.6	21.4	20.8
5°	18.5	17.5	17.3
7.5°	17.1	16.9	16.9
10°	16.7	16.9	17.1
12.5°	16.7	17.1	17.3
15°	16.7	17.1	17.3
17.5°	16.7	17.1	17.3
20°	16.5	17.1	17.5
22.5°	16.3	17.1	17.3
25°	16.1	17.1	17.3
27.5°	15.9	16.9	17.3
30°	15.7	16.9	17.5
32.5°	15.3	16.9	17.5
35°	15.1	16.9	17.5
37.5°	14.9	16.9	17.7
40°	14.7	16.9	17.7
42.5°	14.5	16.9	17.7
45°	14.2	16.7	17.7
47.5°	13.8	16.7	17.7
50°	13.6	16.5	17.5
52.5°	13.2	16.3	17.5
55°	12.8	15.9	16.9
57.5°	12.2	15.3	16.1
60°	11.4	14.5	15.3
62.5°	10.4	13.4	14.0
65°	9.6	12.2	13.0
67.5°	8.3	10.8	11.6
70°	7.3	9.4	10.2
72.5°	6.3	7.9	8.8
75°	5.3	6.5	7.1
77.5°	4.1	5.3	5.7
80°	3.3	4.1	4.5
82.5°	2.2	2.8	3.1
85°	1.4	1.8	2.0
87.5°	0.6	0.8	0.8
90°	0.0	0.0	0.0

(END OF REPORT)