

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: P1316761

Luminaire Tested: P3SQAS02R709830DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1316761
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: P3SQAS02R709830DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R70 optic, 3000K CCT AND, 98CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

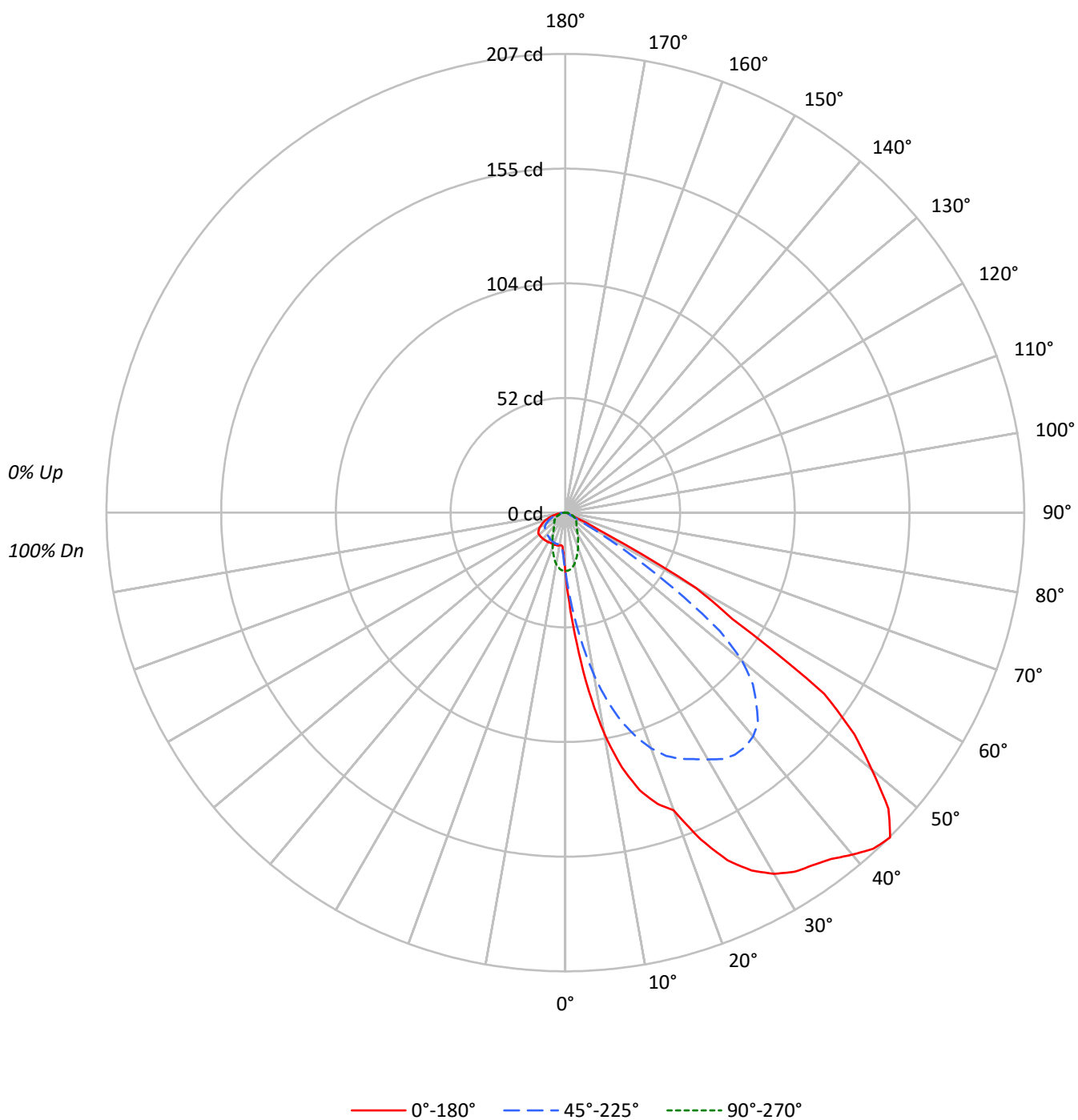
Lumens per Lamp: N/A
Luminaire Lumens: 179.0 lumens
Efficiency: N/A
Efficacy: 49.7 lumens/watt
Spacing Criteria (0/90/45): 2.92 / 0.77 / 2.03
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	0		
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	54	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°	4495	4495	4495	4495	4495
5°	10217	8177	4443	2818	2628
10°	17715	12994	4127	2553	2623
15°	23125	17348	3602	2603	2710
20°	26190	20747	3079	2657	2822
25°	32894	23278	2584	2679	2888
30°	37427	25574	2207	2744	3063
35°	40851	28047	1913	2775	3238
40°	45279	29631	1776	2900	3485
45°	50466	29666	1729	3044	3775
50°	48335	27892	1715	3215	4126
55°	42787	18076	1772	3393	4444
60°	23422	3892	1791	3444	4616
65°	1671	937	1752	3423	4646
70°	806	906	1611	3223	4482
75°	732	932	1530	3061	4192
80°	694	893	1389	2876	3868
85°	790	988	1383	2569	3557

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 50466 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.4	1.9
10°-20°	14.5	8.1
20°-30°	27.9	15.6
30°-40°	39.5	22.0
40°-50°	44.6	24.9
50°-60°	35.4	19.8
60°-70°	9.5	5.3
70°-80°	3.2	1.8
80°-90°	1.0	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°	45.9	25.6
0°-40°	85.3	47.7
0°-60°	165.3	92.4
0°-90°	179.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	179.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	26	26	26	26	26	
5°	59	47	26	16	15	7
15°	130	97	20	15	15	37
25°	173	122	14	14	15	79
35°	194	133	9	13	15	122
45°	207	122	7	12	16	155
55°	142	60	6	11	15	116
65°	4	2	4	8	11	15
75°	1	1	2	5	6	1
85°	0	0	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°	26.1	26.1	26.1	26.1	26.1	26.1	26.1	26.1	26.1	26.1	26.1
2.5°	40.5	40.5	40.4	39.6	39.3	38.4	37.7	35.7	30.9	26.3	22.5
5°	59.1	60.0	58.8	58.6	57.5	55.9	54.8	47.3	35.7	25.7	19.3
7.5°	81.1	81.4	81.1	79.3	77.7	75.0	72.5	60.7	40.5	24.8	17.0
10°	101.3	100.7	99.7	98.4	96.1	93.2	88.9	74.3	45.2	23.6	15.5
12.5°	117.7	117.5	116.3	115.0	112.2	108.4	104.1	86.6	49.1	22.0	14.8
15°	129.7	129.7	128.4	127.0	124.3	121.3	116.4	97.3	52.3	20.2	14.1
17.5°	137.7	137.3	136.4	135.4	133.2	130.2	126.4	105.9	54.5	18.4	13.9
20°	142.9	142.7	142.0	140.4	138.6	136.3	132.9	113.2	55.4	16.8	13.8
22.5°	159.5	158.1	155.4	152.0	147.7	142.2	137.5	118.8	55.0	15.0	13.4
25°	173.1	172.5	169.7	165.6	159.8	152.7	145.0	122.5	53.2	13.6	13.0
27.5°	182.0	181.1	178.4	173.9	167.9	160.9	153.8	125.4	50.7	12.3	12.5
30°	188.2	187.7	185.0	180.0	173.8	166.1	158.8	128.6	47.3	11.1	12.0
32.5°	192.2	191.6	188.9	184.5	178.4	170.4	162.0	131.8	43.2	10.0	11.4
35°	194.3	193.8	190.7	186.8	181.1	173.2	164.3	133.4	38.2	9.1	10.9
37.5°	197.0	195.9	191.8	187.0	181.3	173.9	165.0	133.2	33.2	8.4	10.5
40°	201.4	198.6	192.7	186.3	180.4	173.1	164.5	131.8	27.7	7.9	10.2
42.5°	205.7	201.6	192.9	185.2	178.6	171.4	162.5	128.6	21.6	7.5	10.0
45°	207.2	201.1	190.4	182.7	176.4	169.1	159.8	121.8	14.6	7.1	9.6
47.5°	197.7	193.2	184.3	178.6	172.7	165.6	155.9	114.7	8.4	6.8	9.3
50°	180.4	177.5	172.5	168.9	165.7	160.7	151.3	104.1	5.0	6.4	8.9
52.5°	164.3	163.4	159.8	157.0	155.2	152.9	144.3	87.9	4.1	6.3	8.6
55°	142.5	139.7	138.8	137.7	141.4	141.3	129.7	60.2	3.9	5.9	8.2
57.5°	89.5	90.7	95.4	103.9	114.1	120.0	119.7	32.1	3.8	5.5	7.7
60°	68.0	67.9	69.3	72.9	80.4	88.8	96.6	11.3	3.6	5.2	7.3
62.5°	20.4	20.9	25.2	37.0	44.3	54.6	49.8	2.7	3.4	4.6	6.6
65°	4.1	4.3	4.3	4.8	5.9	8.9	10.9	2.3	3.2	4.3	6.1
67.5°	1.8	1.8	1.8	2.0	2.0	2.3	2.0	2.1	2.9	3.8	5.4
70°	1.6	1.6	1.6	1.6	1.6	1.6	1.8	1.8	2.5	3.2	4.6
72.5°	1.3	1.3	1.3	1.4	1.4	1.4	1.4	1.6	2.1	2.7	3.9
75°	1.1	1.1	1.1	1.1	1.3	1.3	1.3	1.4	1.8	2.3	3.2
77.5°	0.9	0.9	0.9	0.9	0.9	1.1	1.1	1.1	1.4	1.8	2.7
80°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.9	1.1	1.4	2.0
82.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.7	0.9	1.1	1.4
85°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.7	0.9
87.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.5
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°	26.1	26.1	26.1
2.5°	19.8	18.8	18.2
5°	16.3	15.4	15.2
7.5°	15.0	14.8	14.8
10°	14.6	14.8	15.0
12.5°	14.6	15.0	15.2
15°	14.6	15.0	15.2
17.5°	14.6	15.0	15.2
20°	14.5	15.0	15.4
22.5°	14.3	15.0	15.2
25°	14.1	15.0	15.2
27.5°	13.9	14.8	15.2
30°	13.8	14.8	15.4
32.5°	13.4	14.8	15.4
35°	13.2	14.8	15.4
37.5°	13.0	14.8	15.5
40°	12.9	14.8	15.5
42.5°	12.7	14.8	15.5
45°	12.5	14.6	15.5
47.5°	12.1	14.6	15.5
50°	12.0	14.5	15.4
52.5°	11.6	14.3	15.4
55°	11.3	13.9	14.8
57.5°	10.7	13.4	14.1
60°	10.0	12.7	13.4
62.5°	9.1	11.8	12.3
65°	8.4	10.7	11.4
67.5°	7.3	9.5	10.2
70°	6.4	8.2	8.9
72.5°	5.5	7.0	7.7
75°	4.6	5.7	6.3
77.5°	3.6	4.6	5.0
80°	2.9	3.6	3.9
82.5°	2.0	2.5	2.7
85°	1.3	1.6	1.8
87.5°	0.5	0.7	0.7
90°	0.0	0.0	0.0

(END OF REPORT)