

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: P1309832

Luminaire Tested: P3SQAS02R709040DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1309832
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: P3SQAS02R709040DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R70 optic, 4000K CCT AND, 90CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

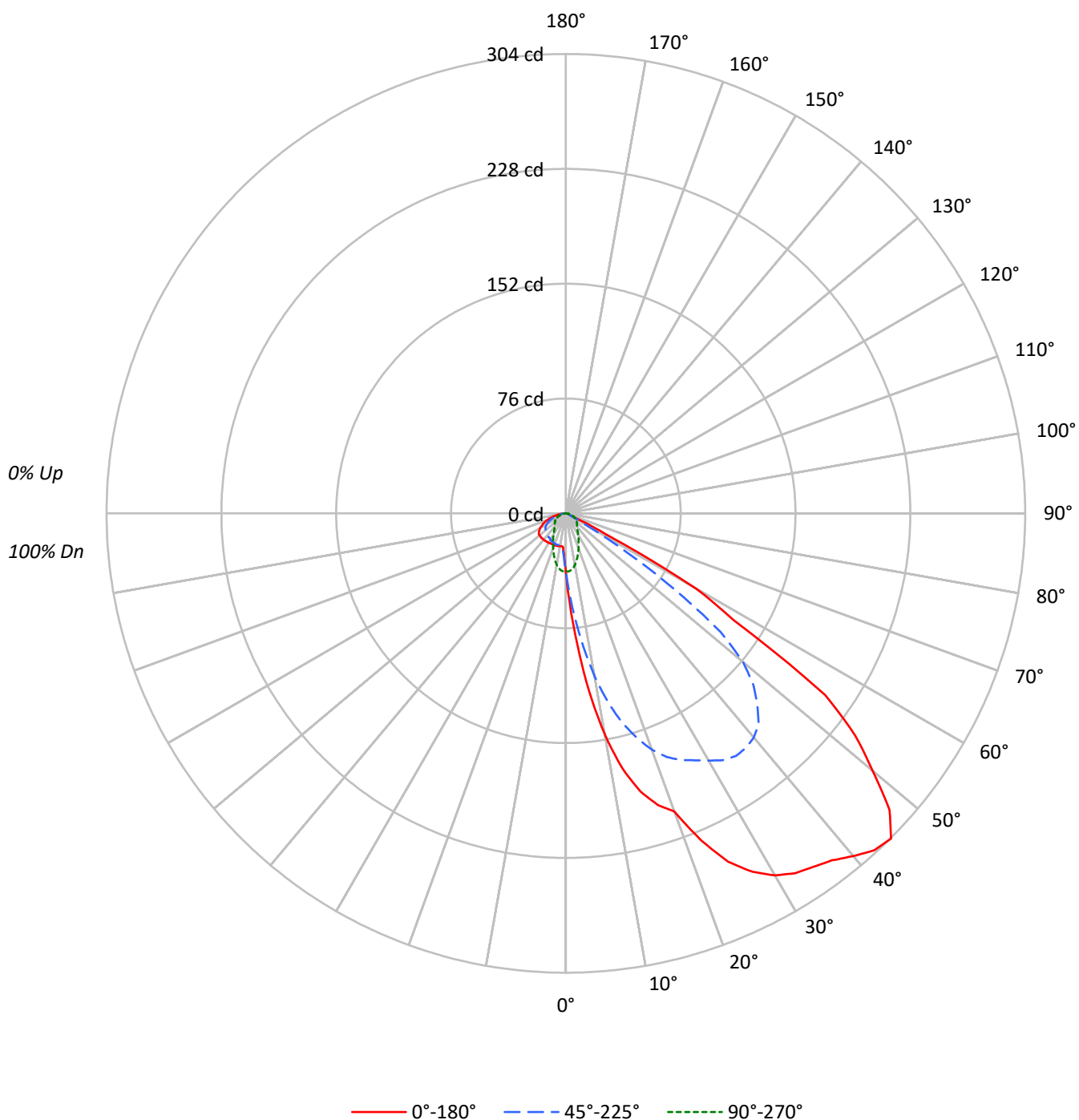
Lumens per Lamp: N/A
Luminaire Lumens: 263.0 lumens
Efficiency: N/A
Efficacy: 73.0 lumens/watt
Spacing Criteria (0/90/45): 2.92 / 0.77 / 2.03
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1309832

CATALOG NUMBER: P3SQAS02R709040DE010 E3SQCA451MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1309832

CATALOG NUMBER: P3SQAS02R709040DE010 E3SQCA451MMS

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°	6596	6596	6596	6596	6596
5°	15023	12015	6535	4132	3855
10°	26022	19097	6051	3760	3847
15°	33966	25497	5295	3833	3976
20°	38470	30497	4527	3904	4142
25°	48324	34205	3782	3934	4238
30°	55006	37566	3242	4017	4494
35°	60025	41208	2817	4079	4752
40°	66547	43525	2585	4249	5126
45°	74140	43597	2557	4481	5553
50°	71002	40993	2519	4716	6055
55°	62875	26543	2612	4954	6546
60°	34445	5683	2618	5063	6786
65°	2445	1386	2567	5012	6846
70°	1209	1309	2367	4733	6596
75°	1065	1397	2262	4525	6122
80°	992	1289	2083	4166	5752
85°	988	1581	1976	3557	5138

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 74140 cd/sqm

TEST NUMBER: P1309832

CATALOG NUMBER: P3SQAS02R709040DE010 E3SQCA451MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.0	1.9
10°-20°	21.4	8.1
20°-30°	41.0	15.6
30°-40°	58.0	22.1
40°-50°	65.6	24.9
50°-60°	52.0	19.8
60°-70°	14.0	5.3
70°-80°	4.6	1.8
80°-90°	1.4	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°	67.4	25.6
0°-40°	125.4	47.7
0°-60°	242.9	92.4
0°-90°	263.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	263.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	38	38	38	38	38	
5°	87	70	38	24	22	10
15°	190	143	30	22	22	54
25°	254	180	20	21	22	117
35°	286	196	13	19	23	180
45°	304	179	10	18	23	228
55°	209	88	9	16	22	170
65°	6	3	6	12	17	22
75°	2	2	3	7	9	2
85°	0	1	1	2	3	1
90°	0	0	0	0	0	

TEST NUMBER: P1309832

CATALOG NUMBER: P3SQAS02R709040DE010 E3SQCA451MMS

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	38.3	38.3	38.3	38.3	38.3	38.3	38.3	38.3	38.3	38.3	38.3
2.5°	59.6	59.6	59.3	58.3	57.7	56.4	55.4	52.5	45.4	38.6	33.1
5°	86.9	88.2	86.3	86.1	84.5	82.1	80.6	69.5	52.5	37.8	28.3
7.5°	119.1	119.7	119.1	116.5	114.1	110.2	106.5	89.2	59.6	36.5	24.9
10°	148.8	148.0	146.4	144.6	141.2	137.0	130.7	109.2	66.4	34.6	22.8
12.5°	172.9	172.7	170.8	169.0	164.8	159.3	153.0	127.3	72.2	32.3	21.8
15°	190.5	190.5	188.7	186.6	182.6	178.2	171.1	143.0	76.9	29.7	20.7
17.5°	202.3	201.8	200.5	198.9	195.7	191.3	185.8	155.6	80.0	27.0	20.5
20°	209.9	209.7	208.6	206.2	203.6	200.2	195.2	166.4	81.3	24.7	20.2
22.5°	234.3	232.2	228.3	223.3	217.0	208.9	202.0	174.5	80.8	22.0	19.7
25°	254.3	253.5	249.3	243.2	234.8	224.3	213.1	180.0	78.2	19.9	19.2
27.5°	267.4	266.1	262.1	255.6	246.7	236.4	225.9	184.2	74.5	18.1	18.4
30°	276.6	275.8	271.8	264.5	255.3	244.0	233.3	188.9	69.5	16.3	17.6
32.5°	282.3	281.6	277.6	271.1	262.1	250.3	238.0	193.6	63.5	14.7	16.8
35°	285.5	284.7	280.2	274.5	266.1	254.5	241.4	196.0	56.2	13.4	16.0
37.5°	289.4	287.8	281.8	274.7	266.3	255.6	242.5	195.7	48.8	12.3	15.5
40°	296.0	291.8	283.1	273.7	265.0	254.3	241.7	193.6	40.7	11.5	15.0
42.5°	302.3	296.2	283.4	272.1	262.4	251.9	238.8	188.9	31.7	11.0	14.7
45°	304.4	295.5	279.7	268.4	259.2	248.5	234.8	179.0	21.5	10.5	14.2
47.5°	290.5	283.9	270.8	262.4	253.7	243.2	229.1	168.5	12.3	10.0	13.6
50°	265.0	260.8	253.5	248.2	243.5	236.2	222.2	153.0	7.3	9.4	13.1
52.5°	241.4	240.1	234.8	230.6	228.0	224.6	212.0	129.1	6.0	9.2	12.6
55°	209.4	205.2	203.9	202.3	207.8	207.6	190.5	88.4	5.8	8.7	12.1
57.5°	131.5	133.3	140.1	152.7	167.7	176.3	175.8	47.2	5.5	8.1	11.3
60°	100.0	99.7	101.8	107.1	118.1	130.4	142.0	16.5	5.2	7.6	10.8
62.5°	29.9	30.7	37.0	54.3	65.1	80.3	73.2	3.9	5.0	6.8	9.7
65°	6.0	6.3	6.3	7.1	8.7	13.1	16.0	3.4	4.7	6.3	8.9
67.5°	2.6	2.6	2.6	2.9	2.9	3.4	2.9	3.1	4.2	5.5	7.9
70°	2.4	2.4	2.4	2.4	2.4	2.4	2.6	2.6	3.7	4.7	6.8
72.5°	1.8	1.8	1.8	2.1	2.1	2.1	2.1	2.4	3.1	3.9	5.8
75°	1.6	1.6	1.6	1.6	1.8	1.8	1.8	2.1	2.6	3.4	4.7
77.5°	1.3	1.3	1.3	1.3	1.3	1.6	1.6	1.6	2.1	2.6	3.9
80°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.3	1.6	2.1	2.9
82.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.0	1.3	1.6	2.1
85°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.8	0.8	1.0	1.3
87.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1309832

CATALOG NUMBER: P3SQAS02R709040DE010 E3SQCA451MMS

CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
0°	38.3	38.3	38.3
2.5°	29.1	27.6	26.8
5°	23.9	22.6	22.3
7.5°	22.0	21.8	21.8
10°	21.5	21.8	22.0
12.5°	21.5	22.0	22.3
15°	21.5	22.0	22.3
17.5°	21.5	22.0	22.3
20°	21.3	22.0	22.6
22.5°	21.0	22.0	22.3
25°	20.7	22.0	22.3
27.5°	20.5	21.8	22.3
30°	20.2	21.8	22.6
32.5°	19.7	21.8	22.6
35°	19.4	21.8	22.6
37.5°	19.2	21.8	22.8
40°	18.9	21.8	22.8
42.5°	18.6	21.8	22.8
45°	18.4	21.5	22.8
47.5°	17.8	21.5	22.8
50°	17.6	21.3	22.6
52.5°	17.1	21.0	22.6
55°	16.5	20.5	21.8
57.5°	15.7	19.7	20.7
60°	14.7	18.6	19.7
62.5°	13.4	17.3	18.1
65°	12.3	15.7	16.8
67.5°	10.8	13.9	15.0
70°	9.4	12.1	13.1
72.5°	8.1	10.2	11.3
75°	6.8	8.4	9.2
77.5°	5.2	6.8	7.3
80°	4.2	5.2	5.8
82.5°	2.9	3.7	3.9
85°	1.8	2.4	2.6
87.5°	0.8	1.0	1.0
90°	0.0	0.0	0.0

(END OF REPORT)