

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: P1312993

Luminaire Tested: P3SQAS02R659730DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1312993
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-82)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS02R659730DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R65 optic, 3000K CCT AND, 97CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

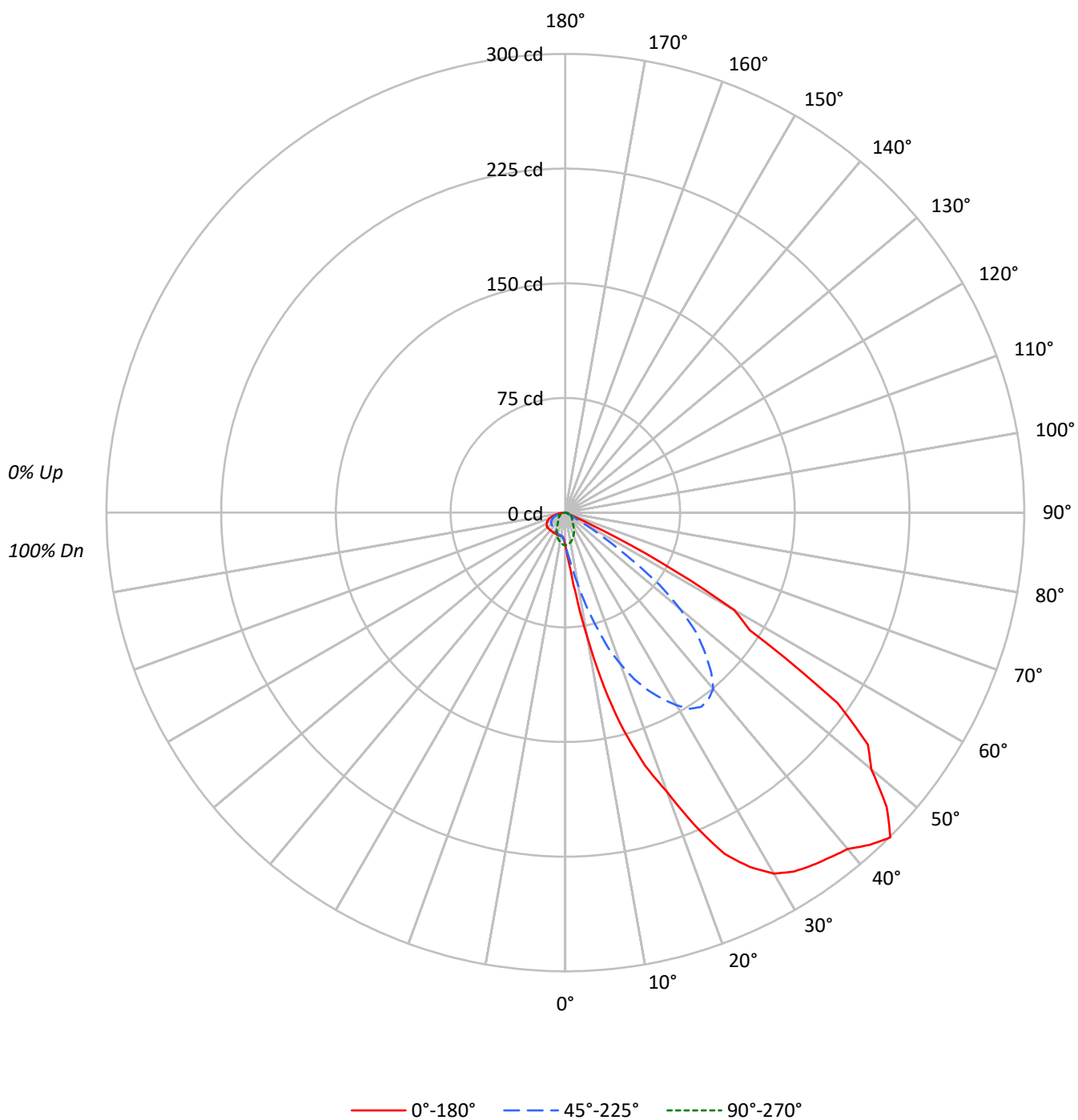
Lumens per Lamp: N/A
Luminaire Lumens: 218.0 lumens
Efficiency: N/A
Efficacy: 60.6 lumens/watt
Spacing Criteria (0/90/45): 3.28 / 0.89 / 2.04
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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: P1312993

CATALOG NUMBER: P3SQAS02R659730DE010 E3SQCA451MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1312993

CATALOG NUMBER: P3SQAS02R659730DE010 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	102	99	108	104	100	97	100	97	94	96	94	91	92	90	89	87		
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	74		
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	62		
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55	53		
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45		
6	71	57	49	42	69	57	48	42	55	47	42	53	46	41	51	46	41	39		
7	65	52	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	34		
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29		
9	56	42	34	28	54	41	33	28	40	33	28	39	33	28	38	32	28	26		
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	3651	3651	3651	3651	3651
5°	6379	5221	3596	2904	2801
10°	14445	8412	3445	2676	2711
15°	26263	13515	3192	2692	2764
20°	35610	19317	2877	2676	2804
25°	46804	24380	2527	2622	2869
30°	54211	28915	2168	2605	3003
35°	59184	32588	1829	2670	3175
40°	64569	33813	1619	2810	3395
45°	73190	31346	1534	2971	3678
50°	69930	26177	1527	3162	4046
55°	65187	14713	1561	3423	4474
60°	43882	3169	1584	3617	4822
65°	6765	815	1508	3749	5257
70°	755	755	1410	3877	5589
75°	732	732	1331	3793	5656
80°	694	893	1289	3471	5653
85°	395	790	1383	3359	5138

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 73190 cd/sqm

TEST NUMBER: P1312993

CATALOG NUMBER: P3SQAS02R659730DE010 E3SQCA451MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.6	1.2
10°-20°	13.9	6.4
20°-30°	32.6	14.9
30°-40°	49.2	22.6
40°-50°	56.6	25.9
50°-60°	44.9	20.6
60°-70°	13.4	6.2
70°-80°	3.7	1.7
80°-90°	1.2	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°	49.0	22.5
0°-40°	98.2	45.0
0°-60°	199.7	91.6
0°-90°	218.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	218.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	21	21	21	21	21	
5°	37	30	21	17	16	5
15°	147	76	18	15	16	42
25°	246	128	13	14	15	112
35°	282	155	9	13	15	177
45°	300	129	6	12	15	223
55°	217	49	5	11	15	179
65°	17	2	4	9	13	37
75°	1	1	2	6	8	1
85°	0	0	1	2	3	0
90°	0	0	0	0	0	

TEST NUMBER: P1312993

CATALOG NUMBER: P3SQAS02R659730DE010 E3SQCA451MMS

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2
2.5°	26.9	27.1	26.9	26.9	26.7	26.4	24.9	23.2	21.2	19.7	18.6
5°	36.9	37.2	36.5	36.5	36.1	35.4	30.2	25.1	20.8	18.4	16.8
7.5°	54.6	55.5	54.4	53.1	50.7	50.3	37.6	27.1	20.3	17.0	15.7
10°	82.6	82.0	80.9	78.3	74.1	72.1	48.1	29.1	19.7	16.2	15.3
12.5°	116.5	114.8	113.4	108.6	103.0	99.7	61.2	30.8	18.8	15.3	15.1
15°	147.3	146.0	143.0	138.4	131.4	128.7	75.8	31.9	17.9	14.6	15.1
17.5°	173.3	172.0	170.3	165.7	158.5	154.5	92.2	32.6	16.8	14.2	14.9
20°	194.3	193.4	191.0	187.3	180.1	176.4	105.4	32.6	15.7	13.8	14.6
22.5°	221.4	219.5	216.4	210.9	202.0	196.3	117.8	31.9	14.6	13.3	14.2
25°	246.3	245.0	241.1	234.5	224.9	219.2	128.3	30.6	13.3	12.7	13.8
27.5°	261.2	260.3	256.6	249.8	239.1	234.8	137.1	28.6	12.0	12.0	13.6
30°	272.6	270.8	267.1	260.5	249.6	244.4	145.4	26.2	10.9	11.4	13.1
32.5°	278.3	277.6	274.3	268.6	257.9	252.0	152.1	23.2	9.6	10.9	12.9
35°	281.5	280.9	278.3	272.8	262.7	257.1	155.0	20.3	8.7	10.5	12.7
37.5°	284.2	283.5	280.2	274.8	264.7	258.8	153.7	17.3	7.9	10.1	12.5
40°	287.2	284.8	279.8	274.3	265.1	259.5	150.4	14.4	7.2	9.8	12.5
42.5°	294.6	286.3	278.5	273.4	264.7	258.1	141.0	11.4	6.6	9.4	12.2
45°	300.5	285.9	275.8	271.9	263.0	255.5	128.7	8.3	6.3	9.2	12.2
47.5°	285.0	276.1	271.5	269.3	259.7	251.6	116.1	5.7	6.1	9.0	12.0
50°	261.0	259.9	258.1	258.4	249.6	243.1	97.7	3.9	5.7	8.7	11.8
52.5°	249.4	248.1	245.0	242.8	234.1	228.4	77.4	3.1	5.5	8.5	11.6
55°	217.1	217.9	214.6	216.0	213.3	210.5	49.0	2.8	5.2	8.1	11.4
57.5°	143.0	147.3	155.0	164.2	172.5	178.1	26.4	2.8	4.8	7.9	10.9
60°	127.4	126.3	126.1	127.9	131.6	134.6	9.2	2.6	4.6	7.2	10.5
62.5°	69.7	69.3	75.8	87.0	93.6	94.2	2.6	2.6	4.2	6.8	9.8
65°	16.6	17.3	19.2	24.0	28.4	31.3	2.0	2.4	3.7	6.3	9.2
67.5°	2.6	2.8	2.8	3.5	3.9	3.9	1.7	2.2	3.3	5.7	8.5
70°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.0	2.8	5.0	7.7
72.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.5	1.7	2.4	4.4	6.6
75°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.5	2.0	3.5	5.7
77.5°	0.9	0.9	0.9	0.9	0.9	0.9	1.1	1.3	1.7	2.8	4.6
80°	0.7	0.7	0.7	0.7	0.7	0.7	0.9	1.1	1.3	2.2	3.5
82.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.7	0.9	1.1	1.7	2.6
85°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.7	0.7	1.1	1.7
87.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.7	0.9
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: P1312993

CATALOG NUMBER: P3SQAS02R659730DE010 E3SQCA451MMS

CANDELA DISTRIBUTION (continued):

	157.5°	180°
0°	21.2	21.2
2.5°	17.9	17.7
5°	16.2	16.2
7.5°	15.5	15.5
10°	15.3	15.5
12.5°	15.3	15.5
15°	15.3	15.5
17.5°	15.3	15.5
20°	15.1	15.3
22.5°	14.9	15.1
25°	14.6	15.1
27.5°	14.4	15.1
30°	14.4	15.1
32.5°	14.4	15.1
35°	14.2	15.1
37.5°	14.2	15.1
40°	14.2	15.1
42.5°	14.2	15.1
45°	14.2	15.1
47.5°	14.2	15.1
50°	14.2	15.1
52.5°	14.0	15.1
55°	14.0	14.9
57.5°	13.6	14.4
60°	13.1	14.0
62.5°	12.7	13.6
65°	12.0	12.9
67.5°	11.4	12.0
70°	10.3	11.1
72.5°	9.2	9.8
75°	7.9	8.5
77.5°	6.6	7.2
80°	5.2	5.7
82.5°	3.7	4.2
85°	2.4	2.6
87.5°	1.1	1.1
90°	0.0	0.0

(END OF REPORT)