

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: P1306479

Luminaire Tested: P3SQAS02R709027DE010 E3SQCA451MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1306479
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: P3SQAS02R709027DE010 E3SQCA451MW
Description: 3in Adjustable LED luminaire with, R70 optic, 2700K CCT AND, 90CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

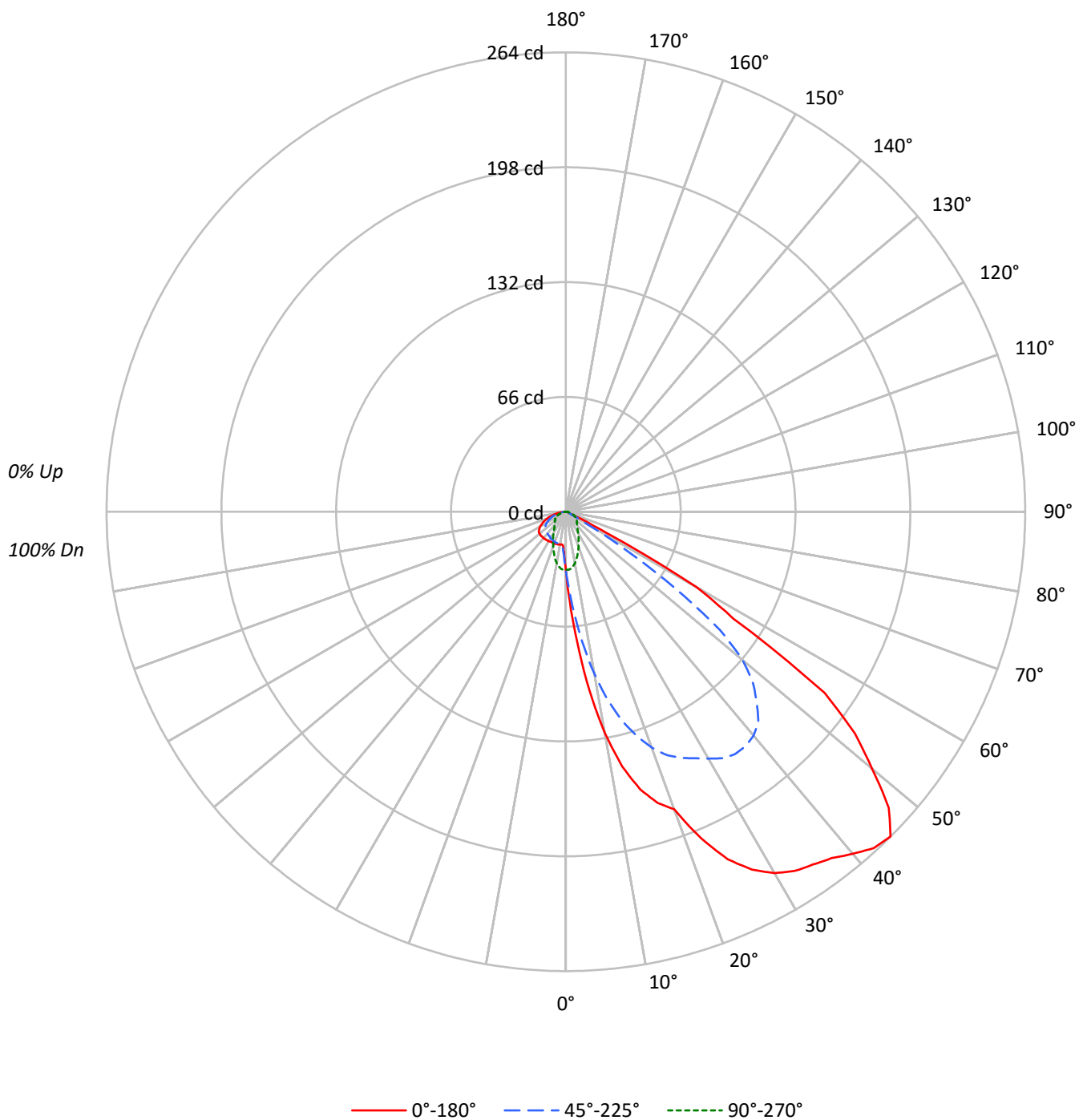
Lumens per Lamp: N/A
Luminaire Lumens: 228.0 lumens
Efficiency: N/A
Efficacy: 63.3 lumens/watt
Spacing Criteria (0/90/45): 2.92 / 0.77 / 2.03
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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: P1306479

CATALOG NUMBER: P3SQAS02R709027DE010 E3SQCA451MW

Luminous Intensity Polar Plot



TEST NUMBER: P1306479

CATALOG NUMBER: P3SQAS02R709027DE010 E3SQCA451MW

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
RC	80				70				50				30				10			0
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	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°	5718	5718	5718	5718	5718
5°	13018	10425	5670	3579	3337
10°	22559	16544	5246	3270	3340
15°	29437	22109	4582	3334	3441
20°	33356	26428	3922	3372	3592
25°	41882	29644	3287	3420	3668
30°	47688	32574	2804	3480	3898
35°	52036	35721	2439	3532	4121
40°	57689	37747	2248	3687	4451
45°	64275	37776	2216	3873	4822
50°	61571	35528	2197	4073	5251
55°	54497	23030	2252	4294	5675
60°	29863	4926	2273	4374	5890
65°	2119	1223	2241	4360	5950
70°	1007	1158	2065	4129	5740
75°	932	1198	1996	3926	5323
80°	893	1091	1785	3570	4959
85°	988	1383	1778	3162	4545

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 64275 cd/sqm

TEST NUMBER: P1306479

CATALOG NUMBER: P3SQAS02R709027DE010 E3SQCA451MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.3	1.9
10°-20°	18.5	8.1
20°-30°	35.6	15.6
30°-40°	50.3	22.0
40°-50°	56.9	24.9
50°-60°	45.0	19.8
60°-70°	12.1	5.3
70°-80°	4.0	1.8
80°-90°	1.2	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°	58.4	25.6
0°-40°	108.7	47.7
0°-60°	210.6	92.4
0°-90°	228.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	228.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	33	33	33	33	33	
5°	75	60	33	21	19	9
15°	165	124	26	19	19	47
25°	220	156	17	18	19	101
35°	248	170	12	17	20	156
45°	264	155	9	16	20	197
55°	182	77	8	14	19	147
65°	5	3	6	11	15	19
75°	1	2	3	6	8	1
85°	0	1	1	2	2	1
90°	0	0	0	0	0	

TEST NUMBER: P1306479

CATALOG NUMBER: P3SQAS02R709027DE010 E3SQCA451MW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	33.2	33.2	33.2	33.2	33.2	33.2	33.2	33.2	33.2	33.2	33.2
2.5°	51.6	51.6	51.4	50.5	50.0	48.9	48.0	45.5	39.4	33.4	28.7
5°	75.3	76.4	74.8	74.6	73.2	71.2	69.8	60.3	45.5	32.8	24.6
7.5°	103.3	103.7	103.3	101.0	99.0	95.5	92.4	77.3	51.6	31.6	21.6
10°	129.0	128.3	126.9	125.3	122.4	118.7	113.3	94.6	57.6	30.0	19.8
12.5°	149.9	149.7	148.1	146.5	142.9	138.1	132.6	110.3	62.6	28.0	18.9
15°	165.1	165.1	163.6	161.7	158.3	154.5	148.3	124.0	66.7	25.7	18.0
17.5°	175.4	174.9	173.8	172.4	169.7	165.8	161.1	134.9	69.4	23.4	17.7
20°	182.0	181.8	180.8	178.8	176.5	173.6	169.2	144.2	70.5	21.4	17.5
22.5°	203.1	201.3	197.9	193.6	188.1	181.1	175.2	151.3	70.1	19.1	17.1
25°	220.4	219.7	216.1	210.9	203.6	194.5	184.7	156.0	67.8	17.3	16.6
27.5°	231.8	230.7	227.2	221.6	213.8	205.0	195.9	159.7	64.6	15.7	15.9
30°	239.8	239.1	235.7	229.3	221.3	211.6	202.2	163.8	60.3	14.1	15.2
32.5°	244.8	244.1	240.7	235.0	227.2	217.0	206.3	167.9	55.0	12.7	14.6
35°	247.5	246.8	242.9	237.9	230.7	220.7	209.3	169.9	48.7	11.6	13.9
37.5°	250.9	249.5	244.3	238.2	230.9	221.6	210.2	169.7	42.3	10.7	13.4
40°	256.6	253.0	245.4	237.3	229.8	220.4	209.5	167.9	35.3	10.0	13.0
42.5°	262.1	256.8	245.7	235.9	227.5	218.4	207.0	163.8	27.5	9.6	12.7
45°	263.9	256.1	242.5	232.7	224.7	215.4	203.6	155.1	18.7	9.1	12.3
47.5°	251.8	246.1	234.8	227.5	220.0	210.9	198.6	146.0	10.7	8.6	11.8
50°	229.8	226.1	219.7	215.2	211.1	204.7	192.7	132.6	6.4	8.2	11.4
52.5°	209.3	208.1	203.6	200.0	197.7	194.7	183.8	111.9	5.2	8.0	10.9
55°	181.5	177.9	176.7	175.4	180.2	179.9	165.1	76.7	5.0	7.5	10.5
57.5°	114.0	115.6	121.5	132.4	145.4	152.9	152.4	40.9	4.8	7.1	9.8
60°	86.7	86.4	88.3	92.8	102.4	113.1	123.1	14.3	4.5	6.6	9.3
62.5°	25.9	26.6	32.1	47.1	56.4	69.6	63.5	3.4	4.3	5.9	8.4
65°	5.2	5.5	5.5	6.1	7.5	11.4	13.9	3.0	4.1	5.5	7.7
67.5°	2.3	2.3	2.3	2.5	2.5	3.0	2.5	2.7	3.6	4.8	6.8
70°	2.0	2.0	2.0	2.0	2.0	2.0	2.3	2.3	3.2	4.1	5.9
72.5°	1.6	1.6	1.6	1.8	1.8	1.8	1.8	2.0	2.7	3.4	5.0
75°	1.4	1.4	1.4	1.4	1.6	1.6	1.6	1.8	2.3	3.0	4.1
77.5°	1.1	1.1	1.1	1.1	1.1	1.4	1.4	1.4	1.8	2.3	3.4
80°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.1	1.4	1.8	2.5
82.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.9	1.1	1.4	1.8
85°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.7	0.7	0.9	1.1
87.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5	0.5	0.5	0.7
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: P1306479

CATALOG NUMBER: P3SQAS02R709027DE010 E3SQCA451MW

CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
0°	33.2	33.2	33.2
2.5°	25.2	23.9	23.2
5°	20.7	19.6	19.3
7.5°	19.1	18.9	18.9
10°	18.7	18.9	19.1
12.5°	18.7	19.1	19.3
15°	18.7	19.1	19.3
17.5°	18.7	19.1	19.3
20°	18.4	19.1	19.6
22.5°	18.2	19.1	19.3
25°	18.0	19.1	19.3
27.5°	17.7	18.9	19.3
30°	17.5	18.9	19.6
32.5°	17.1	18.9	19.6
35°	16.8	18.9	19.6
37.5°	16.6	18.9	19.8
40°	16.4	18.9	19.8
42.5°	16.2	18.9	19.8
45°	15.9	18.7	19.8
47.5°	15.5	18.7	19.8
50°	15.2	18.4	19.6
52.5°	14.8	18.2	19.6
55°	14.3	17.7	18.9
57.5°	13.6	17.1	18.0
60°	12.7	16.2	17.1
62.5°	11.6	15.0	15.7
65°	10.7	13.6	14.6
67.5°	9.3	12.1	13.0
70°	8.2	10.5	11.4
72.5°	7.1	8.9	9.8
75°	5.9	7.3	8.0
77.5°	4.5	5.9	6.4
80°	3.6	4.5	5.0
82.5°	2.5	3.2	3.4
85°	1.6	2.0	2.3
87.5°	0.7	0.9	0.9
90°	0.0	0.0	0.0

(END OF REPORT)