

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: P1314913

Luminaire Tested: P3SQAS02R509740DE010 E3SQCA451MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1314913
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-79)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS02R509740DE010 E3SQCA451MW
Description: 3in Adjustable LED luminaire with, R50 optic, 4000K CCT AND, 97CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

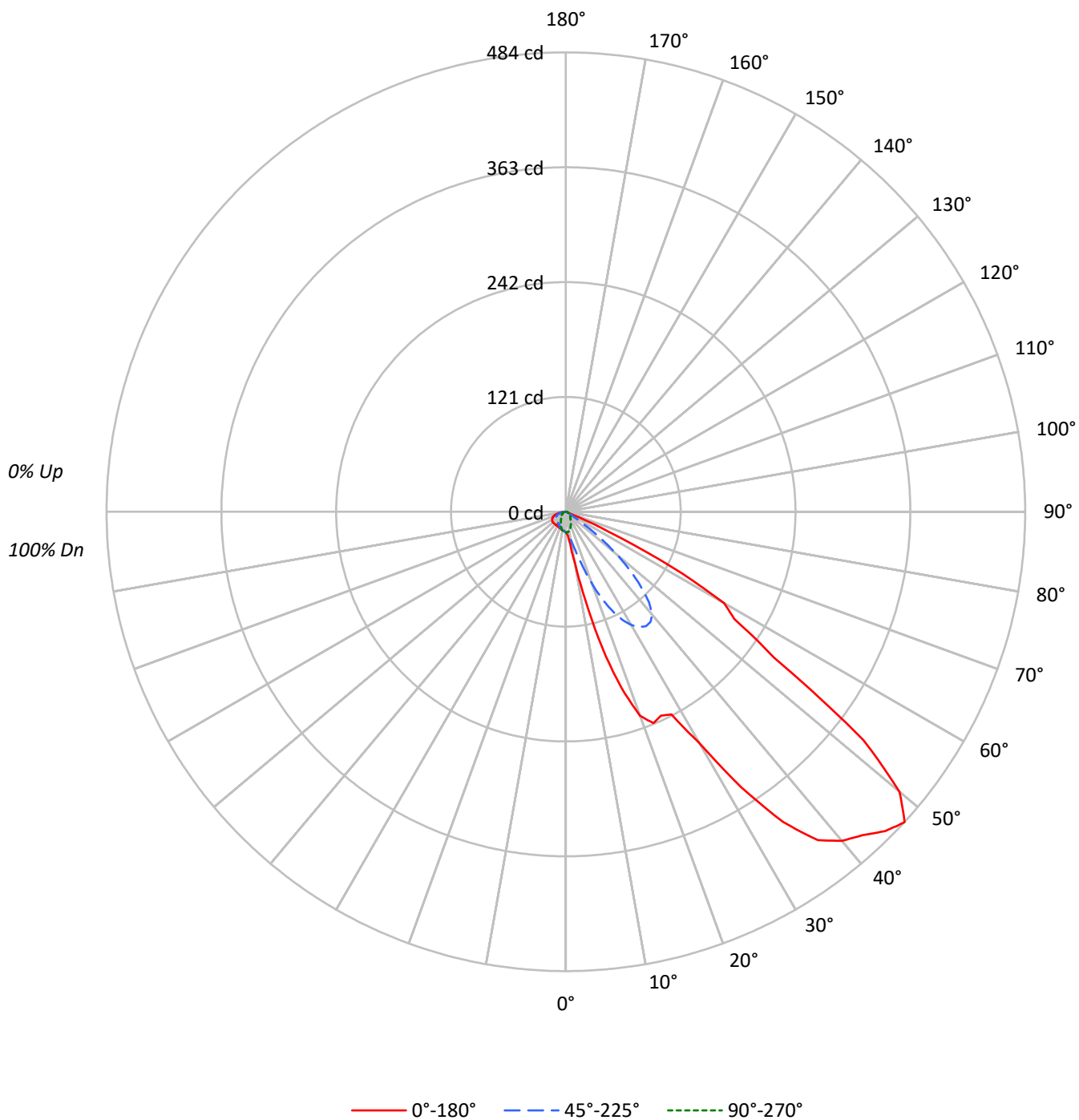
Lumens per Lamp: N/A
Luminaire Lumens: 273.0 lumens
Efficiency: N/A
Efficacy: 75.8 lumens/watt
Spacing Criteria (0/90/45): 3.58 / 0.83 / 1.91
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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: P1314913

CATALOG NUMBER: P3SQAS02R509740DE010 E3SQCA451MW

Luminous Intensity Polar Plot



TEST NUMBER: P1314913

CATALOG NUMBER: P3SQAS02R509740DE010 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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	110	106	102	98	107	103	100	97	99	96	94		95	93	91		92	90	88	86
2	100	93	86	81	98	91	85	80	87	82	78		84	80	76		81	78	75	73
3	91	81	73	67	89	80	72	66	77	70	65		74	69	64		71	67	63	61
4	83	71	63	56	81	70	62	55	67	60	55		65	59	54		63	58	53	51
5	76	63	54	47	74	62	53	47	60	52	46		58	51	46		56	50	45	43
6	69	56	47	40	67	55	46	40	53	45	39		51	44	39		50	43	39	37
7	63	50	41	34	62	49	40	34	47	39	34		46	39	34		44	38	33	31
8	58	44	36	30	57	44	35	29	42	35	29		41	34	29		40	34	29	27
9	54	40	31	26	53	39	31	26	38	31	25		37	30	25		36	30	25	23
10	50	36	28	23	49	36	28	22	35	27	22		34	27	22		33	27	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	3737	3737	3737	3737	3737
5°	4443	4166	3717	3544	3509
10°	9566	5159	3550	3428	3463
15°	26495	8451	3192	3281	3405
20°	41878	14827	2767	3152	3336
25°	45036	21777	2375	3040	3363
30°	55901	27344	2068	3003	3460
35°	83888	30927	1787	3028	3658
40°	101731	31812	1596	3125	3867
45°	115886	27279	1559	3337	4238
50°	123007	18836	1581	3590	4742
55°	80350	7567	1561	3903	5225
60°	66271	1309	1550	4237	5752
65°	19968	693	1426	4523	6357
70°	856	705	1410	4633	6899
75°	799	799	1397	4724	7519
80°	694	694	1389	4661	7736
85°	395	988	1778	4742	7509

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 47.5°

Luminance: 123408 cd/sqm

TEST NUMBER: P1314913

CATALOG NUMBER: P3SQAS02R509740DE010 E3SQCA451MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.3	0.8
10°-20°	12.9	4.7
20°-30°	33.2	12.2
30°-40°	59.7	21.9
40°-50°	79.7	29.2
50°-60°	60.7	22.2
60°-70°	18.4	6.8
70°-80°	4.4	1.6
80°-90°	1.6	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°	48.4	17.7
0°-40°	108.1	39.6
0°-60°	248.6	91.0
0°-90°	273.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	273.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	22	22	22	22	22	
5°	26	24	22	20	20	3
15°	149	47	18	18	19	44
25°	237	115	12	16	18	113
35°	399	147	8	14	17	245
45°	476	112	6	14	17	364
55°	268	25	5	13	17	266
65°	49	2	4	11	16	68
75°	1	1	2	7	11	1
85°	0	0	1	2	4	0
90°	0	0	0	0	0	

TEST NUMBER: P1314913

CATALOG NUMBER: P3SQAS02R509740DE010 E3SQCA451MW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7
2.5°	23.1	23.1	23.1	23.1	23.1	23.1	22.9	22.9	22.9	22.4	21.9
5°	25.7	25.9	25.7	25.7	25.2	25.2	24.8	24.8	24.1	22.6	21.5
7.5°	33.7	33.5	33.2	32.3	31.6	29.9	29.2	28.1	25.9	22.6	21.0
10°	54.7	53.3	52.3	50.2	45.7	42.9	39.1	35.4	29.5	22.6	20.3
12.5°	95.0	94.8	92.0	84.9	78.5	69.8	60.6	51.4	36.3	22.2	19.3
15°	148.6	146.4	142.4	134.2	122.9	109.2	92.7	76.4	47.4	21.5	17.9
17.5°	194.3	191.7	188.6	180.4	167.4	150.2	130.4	108.0	62.5	20.5	16.5
20°	228.5	226.8	224.2	217.6	205.4	189.8	167.7	140.5	80.9	19.3	15.1
22.5°	241.0	240.8	241.2	238.9	232.7	220.5	199.3	171.0	99.0	17.9	13.7
25°	237.0	236.7	239.8	242.9	244.3	239.3	223.1	195.5	114.6	16.7	12.5
27.5°	240.8	240.0	238.6	239.1	243.1	245.9	238.4	214.3	128.0	15.1	11.3
30°	281.1	277.1	270.7	259.9	251.8	251.1	247.8	229.2	137.5	13.4	10.4
32.5°	344.0	339.1	327.5	307.5	288.4	273.8	263.4	241.7	144.1	11.8	9.2
35°	399.0	395.4	382.0	362.2	334.8	307.5	288.6	260.1	147.1	10.4	8.5
37.5°	436.2	434.8	421.6	400.4	372.6	340.3	315.3	279.0	146.4	8.7	7.8
40°	452.5	448.3	437.2	419.3	391.2	362.2	335.8	291.0	141.5	7.1	7.1
42.5°	462.2	457.5	445.4	428.5	400.9	370.0	338.1	285.8	129.7	5.7	6.8
45°	475.8	470.9	455.1	436.9	409.1	373.3	328.9	267.4	112.0	4.2	6.4
47.5°	484.1	480.8	469.0	450.9	417.1	368.6	307.7	250.2	92.4	3.3	6.1
50°	459.1	455.8	447.1	434.6	411.9	352.8	289.1	222.4	70.3	2.6	5.9
52.5°	395.2	398.0	399.7	403.2	386.7	317.4	261.3	200.2	47.4	2.1	5.4
55°	267.6	271.9	276.6	290.7	310.1	282.5	232.0	173.1	25.2	2.1	5.2
57.5°	210.3	208.9	207.5	206.6	221.7	233.0	204.0	138.4	10.8	2.1	4.7
60°	192.4	188.2	185.3	186.0	193.6	189.1	161.5	90.3	3.8	2.1	4.5
62.5°	126.2	129.5	135.8	146.7	141.5	121.4	93.8	35.8	1.9	2.1	4.0
65°	49.0	47.4	49.0	52.1	45.0	33.5	21.0	6.4	1.7	1.9	3.5
67.5°	6.6	5.9	4.5	2.8	2.6	2.4	1.9	1.7	1.7	1.9	3.3
70°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.4	1.4	1.7	2.8
72.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.7	2.4
75°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.4	2.1
77.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.2	1.7
80°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.9	1.4
82.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.7	0.7	0.9	1.2
85°	0.2	0.5	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.7	0.9
87.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5	0.7	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: P1314913

CATALOG NUMBER: P3SQAS02R509740DE010 E3SQCA451MW

CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
0°	21.7	21.7	21.7	21.7
2.5°	21.5	21.0	21.0	21.0
5°	21.0	20.5	20.5	20.3
7.5°	20.3	20.0	20.0	20.0
10°	19.8	19.6	19.8	19.8
12.5°	18.9	19.1	19.3	19.3
15°	17.9	18.4	18.9	19.1
17.5°	17.0	17.9	18.4	18.6
20°	16.0	17.2	17.9	18.2
22.5°	15.3	16.5	17.4	17.9
25°	14.4	16.0	17.2	17.7
27.5°	13.4	15.3	16.7	17.4
30°	12.7	15.1	16.7	17.4
32.5°	12.0	14.6	16.5	17.2
35°	11.6	14.4	16.5	17.4
37.5°	11.1	14.1	16.5	17.2
40°	10.8	13.9	16.5	17.2
42.5°	10.6	13.9	16.5	17.4
45°	10.1	13.7	16.5	17.4
47.5°	9.9	13.7	16.5	17.4
50°	9.7	13.4	16.5	17.7
52.5°	9.4	13.2	16.5	17.7
55°	9.0	13.0	16.3	17.4
57.5°	8.7	12.7	16.0	17.0
60°	8.3	12.3	15.6	16.7
62.5°	7.8	11.8	15.1	16.0
65°	7.1	11.1	14.4	15.6
67.5°	6.4	10.1	13.7	14.9
70°	5.7	9.2	12.7	13.7
72.5°	5.0	8.3	11.8	12.5
75°	4.2	7.1	10.4	11.3
77.5°	3.5	6.1	8.7	9.4
80°	2.6	4.7	7.1	7.8
82.5°	2.1	3.5	5.2	5.7
85°	1.4	2.4	3.3	3.8
87.5°	0.7	1.2	1.7	1.9
90°	0.0	0.0	0.0	0.0

(END OF REPORT)