

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: P1315880

Luminaire Tested: P3SQAS02R659827DE010 E3SQCA451MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1315880
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: P3SQAS02R659827DE010 E3SQCA451MW
Description: 3in Adjustable LED luminaire with, R65 optic, 2700K CCT AND, 98CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

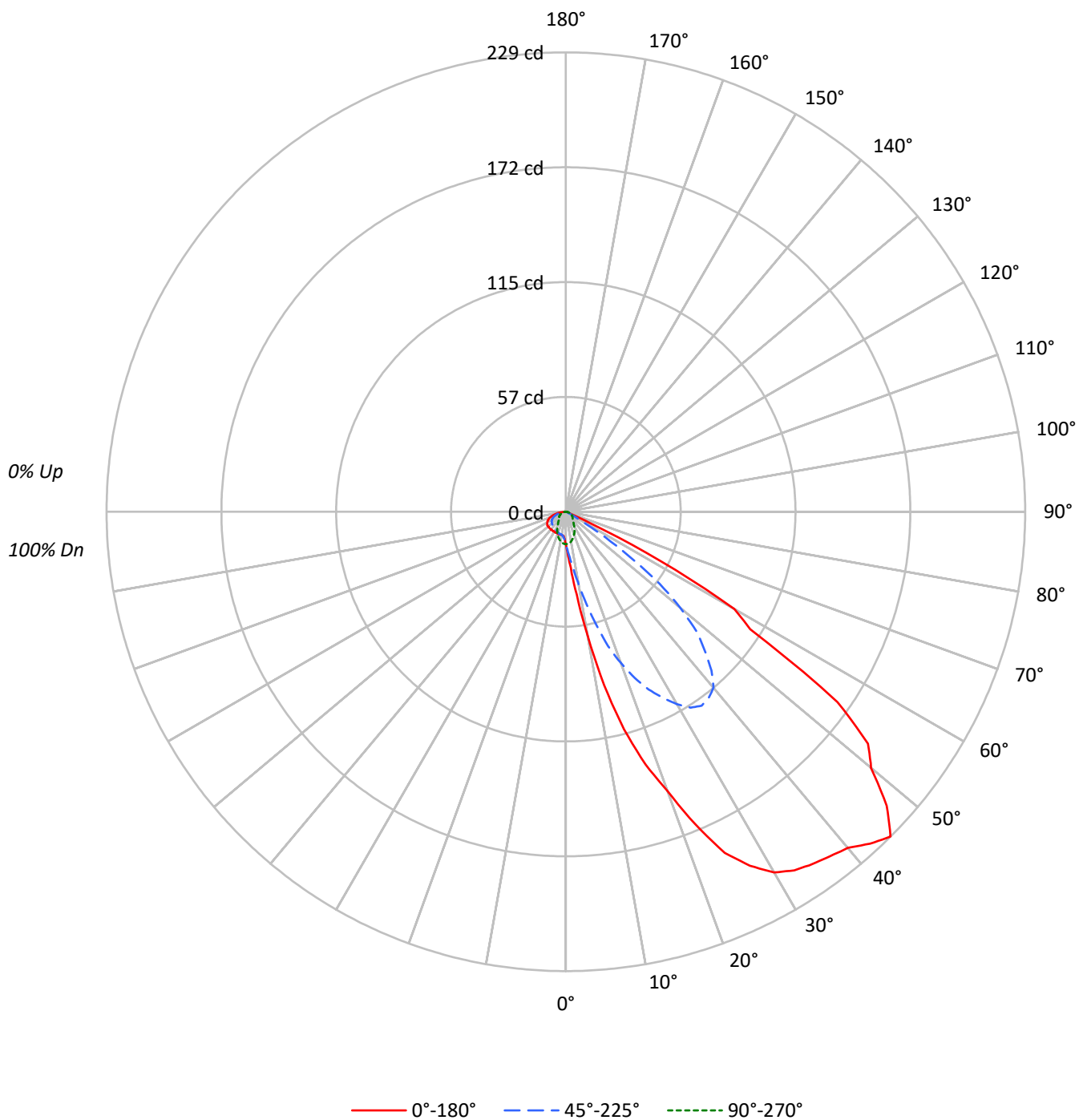
Lumens per Lamp: N/A
Luminaire Lumens: 166.0 lumens
Efficiency: N/A
Efficacy: 46.1 lumens/watt
Spacing Criteria (0/90/45): 3.28 / 0.89 / 2.04
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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: P1315880

CATALOG NUMBER: P3SQAS02R659827DE010 E3SQCA451MW

Luminous Intensity Polar Plot



TEST NUMBER: P1315880

CATALOG NUMBER: P3SQAS02R659827DE010 E3SQCA451MW

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°	2773	2773	2773	2773	2773
5°	4858	3976	2732	2213	2126
10°	11000	6401	2623	2046	2064
15°	20005	10306	2425	2050	2104
20°	27125	14699	2199	2053	2144
25°	35649	18566	1938	1995	2185
30°	41284	22014	1651	1989	2287
35°	45077	24809	1409	2039	2418
40°	49168	25742	1237	2136	2585
45°	55751	23869	1169	2265	2801
50°	53238	19934	1152	2411	3081
55°	49633	11200	1201	2612	3393
60°	33411	2411	1206	2756	3686
65°	5135	611	1141	2853	3994
70°	604	604	1108	2921	4280
75°	532	532	998	2861	4325
80°	496	694	992	2678	4265
85°	395	593	988	2569	3952

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 55751 cd/sqm

TEST NUMBER: P1315880

CATALOG NUMBER: P3SQAS02R659827DE010 E3SQCA451MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.0	1.2
10°-20°	10.6	6.4
20°-30°	24.8	14.9
30°-40°	37.5	22.6
40°-50°	43.1	25.9
50°-60°	34.2	20.6
60°-70°	10.2	6.2
70°-80°	2.8	1.7
80°-90°	0.9	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°	37.3	22.5
0°-40°	74.8	45.0
0°-60°	152.1	91.6
0°-90°	166.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	166.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	16	16	16	16	16	
5°	28	23	16	13	12	4
15°	112	58	14	12	12	32
25°	188	98	10	10	12	86
35°	214	118	7	10	12	135
45°	229	98	5	9	12	170
55°	165	37	4	9	11	136
65°	13	2	3	7	10	28
75°	1	1	2	4	6	1
85°	0	0	0	1	2	0
90°	0	0	0	0	0	

TEST NUMBER: P1315880

CATALOG NUMBER: P3SQAS02R659827DE010 E3SQCA451MW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1
2.5°	20.5	20.6	20.5	20.5	20.3	20.1	19.0	17.6	16.1	15.0	14.1
5°	28.1	28.3	27.8	27.8	27.5	27.0	23.0	19.1	15.8	14.0	12.8
7.5°	41.6	42.3	41.4	40.4	38.6	38.3	28.6	20.6	15.5	13.0	12.0
10°	62.9	62.4	61.6	59.6	56.4	54.9	36.6	22.1	15.0	12.3	11.7
12.5°	88.7	87.4	86.4	82.7	78.4	75.9	46.6	23.5	14.3	11.7	11.5
15°	112.2	111.2	108.9	105.4	100.0	98.0	57.8	24.3	13.6	11.2	11.5
17.5°	132.0	131.0	129.7	126.2	120.7	117.7	70.2	24.8	12.8	10.8	11.3
20°	148.0	147.3	145.5	142.6	137.1	134.3	80.2	24.8	12.0	10.5	11.2
22.5°	168.6	167.1	164.8	160.6	153.8	149.5	89.7	24.3	11.2	10.2	10.8
25°	187.6	186.6	183.6	178.6	171.3	166.9	97.7	23.3	10.2	9.7	10.5
27.5°	198.9	198.2	195.4	190.2	182.1	178.8	104.4	21.8	9.2	9.2	10.3
30°	207.6	206.2	203.4	198.4	190.1	186.1	110.7	20.0	8.3	8.7	10.0
32.5°	211.9	211.4	208.9	204.6	196.4	191.9	115.8	17.6	7.3	8.3	9.8
35°	214.4	213.9	211.9	207.7	200.1	195.7	118.0	15.5	6.7	8.0	9.7
37.5°	216.4	215.9	213.4	209.2	201.6	197.1	117.0	13.1	6.0	7.7	9.5
40°	218.7	216.9	213.0	208.9	201.9	197.6	114.5	11.0	5.5	7.5	9.5
42.5°	224.4	218.0	212.0	208.2	201.6	196.6	107.4	8.7	5.0	7.2	9.3
45°	228.9	217.7	210.1	207.1	200.2	194.6	98.0	6.3	4.8	7.0	9.3
47.5°	217.0	210.2	206.7	205.1	197.7	191.6	88.4	4.3	4.7	6.8	9.2
50°	198.7	197.9	196.6	196.7	190.1	185.1	74.4	3.0	4.3	6.7	9.0
52.5°	189.9	188.9	186.6	184.9	178.3	173.9	58.9	2.3	4.2	6.5	8.8
55°	165.3	165.9	163.4	164.4	162.4	160.3	37.3	2.2	4.0	6.2	8.7
57.5°	108.9	112.2	118.0	125.0	131.3	135.7	20.1	2.2	3.7	6.0	8.3
60°	97.0	96.2	96.0	97.4	100.2	102.5	7.0	2.0	3.5	5.5	8.0
62.5°	53.1	52.8	57.8	66.2	71.2	71.7	2.0	2.0	3.2	5.2	7.5
65°	12.6	13.1	14.6	18.3	21.6	23.8	1.5	1.8	2.8	4.8	7.0
67.5°	2.0	2.2	2.2	2.7	3.0	3.0	1.3	1.7	2.5	4.3	6.5
70°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.5	2.2	3.8	5.8
72.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.2	1.3	1.8	3.3	5.0
75°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.2	1.5	2.7	4.3
77.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.8	1.0	1.3	2.2	3.5
80°	0.5	0.5	0.5	0.5	0.5	0.5	0.7	0.8	1.0	1.7	2.7
82.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.7	0.8	1.3	2.0
85°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.5	0.5	0.8	1.3
87.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	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: P1315880

CATALOG NUMBER: P3SQAS02R659827DE010 E3SQCA451MW

CANDELA DISTRIBUTION (continued):

	157.5°	180°
0°	16.1	16.1
2.5°	13.6	13.5
5°	12.3	12.3
7.5°	11.8	11.8
10°	11.7	11.8
12.5°	11.7	11.8
15°	11.7	11.8
17.5°	11.7	11.8
20°	11.5	11.7
22.5°	11.3	11.5
25°	11.2	11.5
27.5°	11.0	11.5
30°	11.0	11.5
32.5°	11.0	11.5
35°	10.8	11.5
37.5°	10.8	11.5
40°	10.8	11.5
42.5°	10.8	11.5
45°	10.8	11.5
47.5°	10.8	11.5
50°	10.8	11.5
52.5°	10.7	11.5
55°	10.7	11.3
57.5°	10.3	11.0
60°	10.0	10.7
62.5°	9.7	10.3
65°	9.2	9.8
67.5°	8.7	9.2
70°	7.8	8.5
72.5°	7.0	7.5
75°	6.0	6.5
77.5°	5.0	5.5
80°	4.0	4.3
82.5°	2.8	3.2
85°	1.8	2.0
87.5°	0.8	0.8
90°	0.0	0.0

(END OF REPORT)