

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: P1307589

Luminaire Tested: P3SQAS02R659030DE010 E3SQCA451MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1307589
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: P3SQAS02R659030DE010 E3SQCA451MB
Description: 3in Adjustable LED luminaire with, R65 optic, 3000K CCT AND, 90CRI , E3SQCA451MB TRIM
Light Source: -
Ballast/Driver: -

Summary

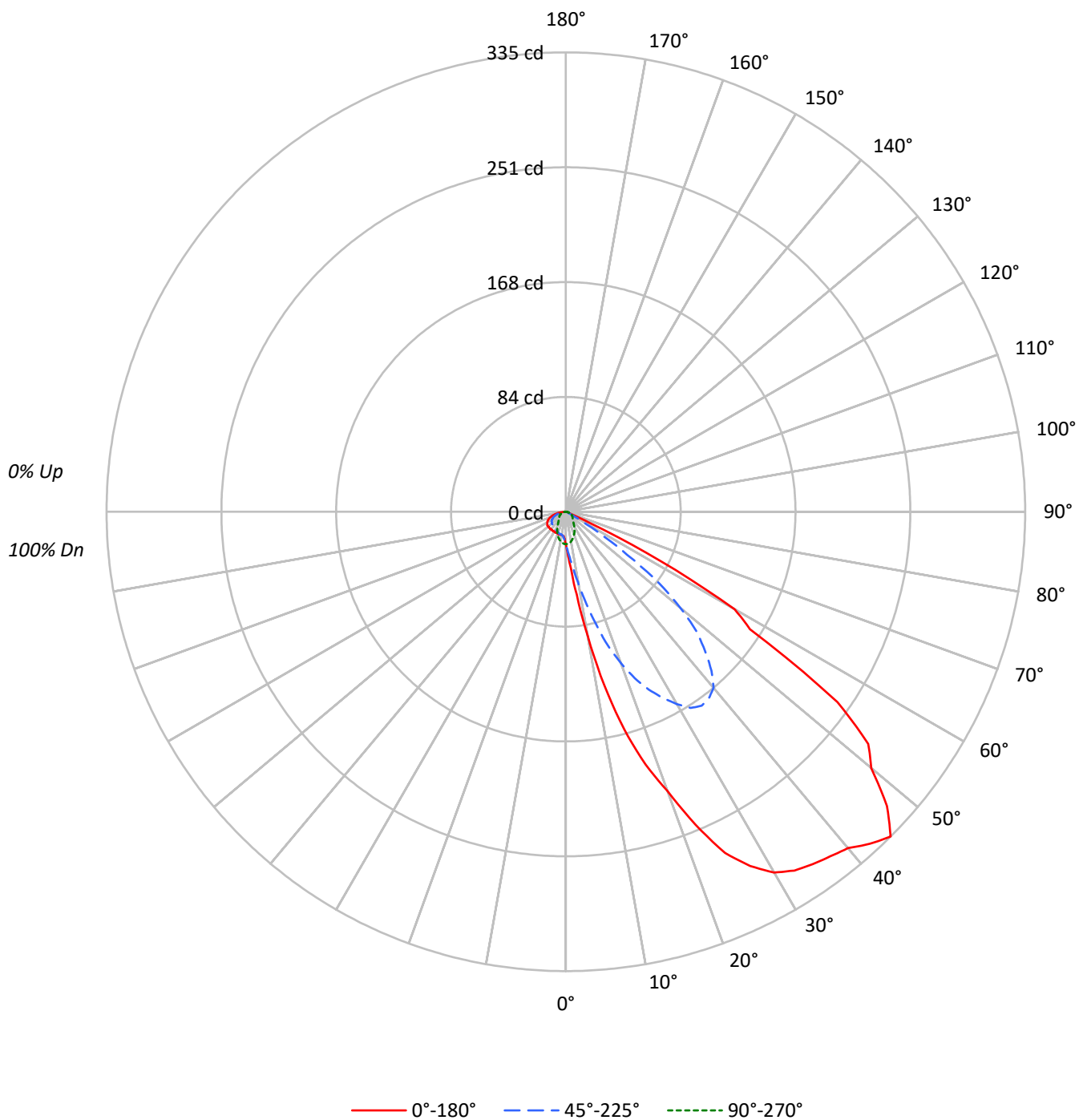
Lumens per Lamp: N/A
Luminaire Lumens: 243.0 lumens
Efficiency: N/A
Efficacy: 67.5 lumens/watt
Spacing Criteria (0/90/45): 3.28 / 0.89 / 2.04
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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: P1307589

CATALOG NUMBER: P3SQAS02R659030DE010 E3SQCA451MB

Luminous Intensity Polar Plot



TEST NUMBER: P1307589

CATALOG NUMBER: P3SQAS02R659030DE010 E3SQCA451MB

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°	4064	4064	4064	4064	4064
5°	7123	5809	3994	3250	3112
10°	16106	9374	3830	2990	3025
15°	29277	15066	3566	2995	3085
20°	39697	21517	3207	2987	3134
25°	52181	27174	2831	2907	3192
30°	60415	32216	2426	2903	3341
35°	65975	36309	2039	2964	3532
40°	71988	37680	1799	3125	3777
45°	81592	34951	1729	3312	4092
50°	77941	29178	1688	3537	4501
55°	72633	16394	1742	3813	4984
60°	48911	3513	1757	4030	5373
65°	7539	897	1671	4157	5868
70°	856	856	1611	4280	6244
75°	799	799	1464	4192	6321
80°	694	992	1488	3868	6248
85°	395	988	1383	3754	5730

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 81592 cd/sqm

TEST NUMBER: P1307589

CATALOG NUMBER: P3SQAS02R659030DE010 E3SQCA451MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.9	1.2
10°-20°	15.5	6.4
20°-30°	36.3	14.9
30°-40°	54.8	22.6
40°-50°	63.0	25.9
50°-60°	50.1	20.6
60°-70°	15.0	6.2
70°-80°	4.1	1.7
80°-90°	1.4	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°	54.6	22.5
0°-40°	109.5	45.1
0°-60°	222.6	91.6
0°-90°	243.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	243.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	24	24	24	24	24	
5°	41	34	23	19	18	6
15°	164	84	20	17	17	47
25°	275	143	15	15	17	125
35°	314	173	10	14	17	197
45°	335	144	7	14	17	249
55°	242	55	6	13	17	199
65°	18	2	4	10	14	41
75°	1	1	2	6	10	1
85°	0	0	1	2	3	0
90°	0	0	0	0	0	

TEST NUMBER: P1307589

CATALOG NUMBER: P3SQAS02R659030DE010 E3SQCA451MB

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6
2.5°	30.0	30.2	30.0	30.0	29.7	29.5	27.8	25.8	23.6	21.9	20.7
5°	41.2	41.4	40.7	40.7	40.2	39.5	33.6	28.0	23.1	20.5	18.8
7.5°	60.9	61.9	60.7	59.2	56.5	56.0	41.9	30.2	22.7	19.0	17.5
10°	92.1	91.4	90.1	87.2	82.6	80.4	53.6	32.4	21.9	18.0	17.1
12.5°	129.9	127.9	126.5	121.1	114.8	111.1	68.2	34.4	21.0	17.1	16.8
15°	164.2	162.8	159.3	154.2	146.4	143.5	84.5	35.6	20.0	16.3	16.8
17.5°	193.2	191.8	189.8	184.7	176.6	172.3	102.8	36.3	18.8	15.8	16.6
20°	216.6	215.6	212.9	208.8	200.8	196.6	117.4	36.3	17.5	15.3	16.3
22.5°	246.8	244.6	241.2	235.1	225.1	218.8	131.3	35.6	16.3	14.9	15.8
25°	274.6	273.1	268.7	261.4	250.7	244.4	143.0	34.1	14.9	14.1	15.3
27.5°	291.2	290.2	286.0	278.5	266.6	261.7	152.8	31.9	13.4	13.4	15.1
30°	303.8	301.9	297.7	290.4	278.2	272.4	162.0	29.2	12.2	12.7	14.6
32.5°	310.2	309.4	305.8	299.4	287.5	280.9	169.6	25.8	10.7	12.2	14.4
35°	313.8	313.1	310.2	304.1	292.9	286.5	172.7	22.7	9.7	11.7	14.1
37.5°	316.7	316.0	312.4	306.3	295.1	288.5	171.3	19.2	8.8	11.2	13.9
40°	320.2	317.5	311.9	305.8	295.5	289.2	167.6	16.1	8.0	11.0	13.9
42.5°	328.4	319.2	310.4	304.8	295.1	287.7	157.2	12.7	7.3	10.5	13.6
45°	335.0	318.7	307.5	303.1	293.1	284.8	143.5	9.3	7.1	10.2	13.6
47.5°	317.7	307.7	302.6	300.2	289.5	280.4	129.4	6.3	6.8	10.0	13.4
50°	290.9	289.7	287.7	288.0	278.2	270.9	108.9	4.4	6.3	9.7	13.2
52.5°	278.0	276.5	273.1	270.7	260.9	254.6	86.3	3.4	6.1	9.5	12.9
55°	241.9	242.9	239.3	240.7	237.8	234.6	54.6	3.2	5.8	9.0	12.7
57.5°	159.3	164.2	172.7	183.0	192.2	198.6	29.5	3.2	5.4	8.8	12.2
60°	142.0	140.8	140.6	142.5	146.7	150.1	10.2	2.9	5.1	8.0	11.7
62.5°	77.7	77.2	84.5	97.0	104.3	105.0	2.9	2.9	4.6	7.6	11.0
65°	18.5	19.2	21.4	26.8	31.7	34.8	2.2	2.7	4.1	7.1	10.2
67.5°	2.9	3.2	3.2	3.9	4.4	4.4	1.9	2.4	3.7	6.3	9.5
70°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	2.2	3.2	5.6	8.5
72.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.7	1.9	2.7	4.9	7.3
75°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.7	2.2	3.9	6.3
77.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.2	1.5	1.9	3.2	5.1
80°	0.7	0.7	0.7	0.7	0.7	0.7	1.0	1.2	1.5	2.4	3.9
82.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.7	1.0	1.2	1.9	2.9
85°	0.2	0.2	0.2	0.2	0.5	0.5	0.5	0.7	0.7	1.2	1.9
87.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.5	0.5	0.5	0.7	1.0
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: P1307589

CATALOG NUMBER: P3SQAS02R659030DE010 E3SQCA451MB

CANDELA DISTRIBUTION (continued):

	157.5°	180°
0°	23.6	23.6
2.5°	20.0	19.7
5°	18.0	18.0
7.5°	17.3	17.3
10°	17.1	17.3
12.5°	17.1	17.3
15°	17.1	17.3
17.5°	17.1	17.3
20°	16.8	17.1
22.5°	16.6	16.8
25°	16.3	16.8
27.5°	16.1	16.8
30°	16.1	16.8
32.5°	16.1	16.8
35°	15.8	16.8
37.5°	15.8	16.8
40°	15.8	16.8
42.5°	15.8	16.8
45°	15.8	16.8
47.5°	15.8	16.8
50°	15.8	16.8
52.5°	15.6	16.8
55°	15.6	16.6
57.5°	15.1	16.1
60°	14.6	15.6
62.5°	14.1	15.1
65°	13.4	14.4
67.5°	12.7	13.4
70°	11.5	12.4
72.5°	10.2	11.0
75°	8.8	9.5
77.5°	7.3	8.0
80°	5.8	6.3
82.5°	4.1	4.6
85°	2.7	2.9
87.5°	1.2	1.2
90°	0.0	0.0

(END OF REPORT)