

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: P1307759

Luminaire Tested: P3SQAS05R659030DE010 E3SQCA451MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1307759
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: P3SQAS05R659030DE010 E3SQCA451MW
Description: 3in Adjustable LED luminaire with, R65 optic, 3000K CCT AND, 90CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

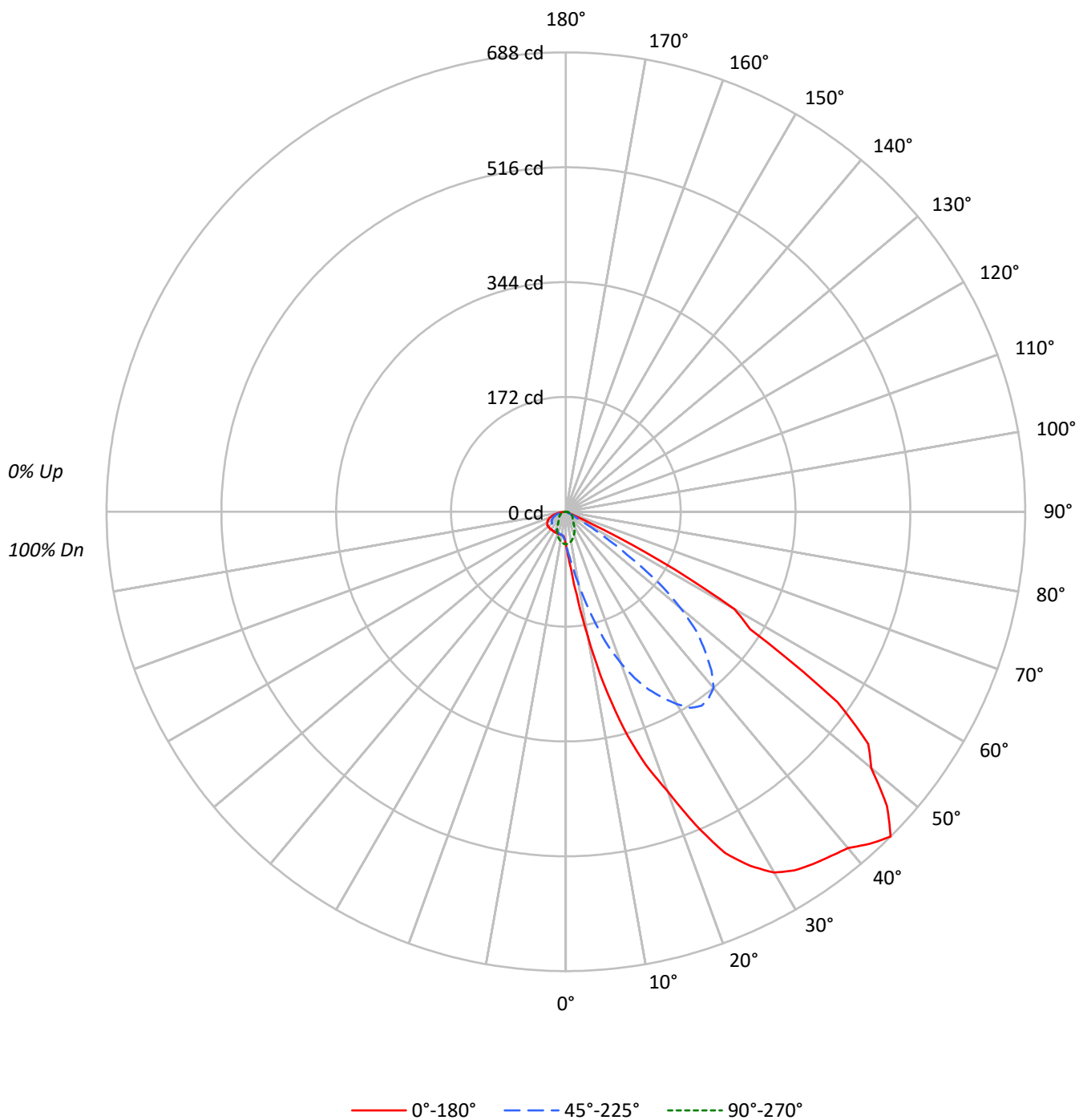
Lumens per Lamp: N/A
Luminaire Lumens: 498.9 lumens
Efficiency: N/A
Efficacy: 69.3 lumens/watt
Spacing Criteria (0/90/45): 3.28 / 0.89 / 2.04
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 7.2
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: P1307759

CATALOG NUMBER: P3SQAS05R659030DE010 E3SQCA451MW

Luminous Intensity Polar Plot



TEST NUMBER: P1307759

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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°	8353	8353	8353	8353	8353
5°	14626	11929	8212	6656	6397
10°	33070	19254	7870	6121	6208
15°	60122	30953	7310	6151	6330
20°	81521	44206	6598	6140	6415
25°	107156	55811	5796	5986	6556
30°	124072	66163	4972	5966	6861
35°	135482	74574	4205	6097	7253
40°	147797	77383	3710	6407	7756
45°	167569	71777	3532	6820	8403
50°	160062	59909	3483	7234	9244
55°	149170	33659	3603	7807	10209
60°	100475	7233	3617	8267	11022
65°	15486	1834	3464	8558	12022
70°	1762	1762	3273	8812	12840
75°	1664	1664	2994	8650	12976
80°	1488	1984	2975	7934	12893
85°	988	1976	2964	7904	11856

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 167569 cd/sqm

TEST NUMBER: P1307759

CATALOG NUMBER: P3SQAS05R659030DE010 E3SQCA451MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.9	1.2
10°-20°	31.7	6.4
20°-30°	74.5	14.9
30°-40°	112.6	22.6
40°-50°	129.5	25.9
50°-60°	102.8	20.6
60°-70°	30.8	6.2
70°-80°	8.4	1.7
80°-90°	2.8	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°	112.1	22.5
0°-40°	224.8	45.0
0°-60°	457.0	91.6
0°-90°	498.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	498.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	48	48	48	48	48	
5°	85	69	48	38	37	11
15°	337	174	41	34	36	97
25°	564	294	30	32	34	257
35°	644	355	20	29	34	404
45°	688	295	14	28	34	511
55°	497	112	12	26	34	409
65°	38	4	8	21	30	85
75°	2	2	4	13	20	3
85°	0	1	2	4	6	1
90°	0	0	0	0	0	

TEST NUMBER: P1307759

CATALOG NUMBER: P3SQAS05R659030DE010 E3SQCA451MW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5
2.5°	61.5	62.0	61.5	61.5	61.0	60.5	57.0	53.0	48.5	45.0	42.5
5°	84.6	85.1	83.6	83.6	82.6	81.1	69.0	57.5	47.5	42.0	38.5
7.5°	125.1	127.1	124.6	121.6	116.1	115.1	86.1	62.0	46.5	39.0	36.0
10°	189.1	187.6	185.1	179.1	169.6	165.1	110.1	66.5	45.0	37.0	35.0
12.5°	266.7	262.7	259.7	248.7	235.7	228.2	140.1	70.5	43.0	35.0	34.5
15°	337.2	334.2	327.2	316.7	300.7	294.7	173.6	73.0	41.0	33.5	34.5
17.5°	396.8	393.8	389.8	379.3	362.7	353.7	211.1	74.5	38.5	32.5	34.0
20°	444.8	442.8	437.3	428.8	412.3	403.8	241.2	74.5	36.0	31.5	33.5
22.5°	506.8	502.3	495.3	482.8	462.3	449.3	269.7	73.0	33.5	30.5	32.5
25°	563.9	560.9	551.9	536.9	514.8	501.8	293.7	70.0	30.5	29.0	31.5
27.5°	597.9	595.9	587.4	571.9	547.4	537.4	313.7	65.5	27.5	27.5	31.0
30°	623.9	619.9	611.4	596.4	571.4	559.4	332.7	60.0	25.0	26.0	30.0
32.5°	636.9	635.4	627.9	614.9	590.4	576.9	348.2	53.0	22.0	25.0	29.5
35°	644.4	642.9	636.9	624.4	601.4	588.4	354.7	46.5	20.0	24.0	29.0
37.5°	650.4	648.9	641.4	628.9	605.9	592.4	351.7	39.5	18.0	23.0	28.5
40°	657.4	651.9	640.4	627.9	606.9	593.9	344.2	33.0	16.5	22.5	28.5
42.5°	674.4	655.4	637.4	625.9	605.9	590.9	322.7	26.0	15.0	21.5	28.0
45°	688.0	654.4	631.4	622.4	601.9	584.9	294.7	19.0	14.5	21.0	28.0
47.5°	652.4	631.9	621.4	616.4	594.4	575.9	265.7	13.0	14.0	20.5	27.5
50°	597.4	594.9	590.9	591.4	571.4	556.4	223.6	9.0	13.0	20.0	27.0
52.5°	570.9	567.9	560.9	555.9	535.9	522.8	177.1	7.0	12.5	19.5	26.5
55°	496.8	498.8	491.3	494.3	488.3	481.8	112.1	6.5	12.0	18.5	26.0
57.5°	327.2	337.2	354.7	375.7	394.8	407.8	60.5	6.5	11.0	18.0	25.0
60°	291.7	289.2	288.7	292.7	301.2	308.2	21.0	6.0	10.5	16.5	24.0
62.5°	159.6	158.6	173.6	199.1	214.1	215.6	6.0	6.0	9.5	15.5	22.5
65°	38.0	39.5	44.0	55.0	65.0	71.5	4.5	5.5	8.5	14.5	21.0
67.5°	6.0	6.5	6.5	8.0	9.0	9.0	4.0	5.0	7.5	13.0	19.5
70°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	4.5	6.5	11.5	17.5
72.5°	3.0	3.0	3.0	3.0	3.0	3.0	3.5	4.0	5.5	10.0	15.0
75°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3.5	4.5	8.0	13.0
77.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.5	3.0	4.0	6.5	10.5
80°	1.5	1.5	1.5	1.5	1.5	1.5	2.0	2.5	3.0	5.0	8.0
82.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.5	2.0	2.5	4.0	6.0
85°	0.5	0.5	0.5	0.5	1.0	1.0	1.0	1.5	1.5	2.5	4.0
87.5°	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.0	1.0	1.5	2.0
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: P1307759

CATALOG NUMBER: P3SQAS05R659030DE010 E3SQCA451MW

CANDELA DISTRIBUTION (continued):

	157.5°	180°
0°	48.5	48.5
2.5°	41.0	40.5
5°	37.0	37.0
7.5°	35.5	35.5
10°	35.0	35.5
12.5°	35.0	35.5
15°	35.0	35.5
17.5°	35.0	35.5
20°	34.5	35.0
22.5°	34.0	34.5
25°	33.5	34.5
27.5°	33.0	34.5
30°	33.0	34.5
32.5°	33.0	34.5
35°	32.5	34.5
37.5°	32.5	34.5
40°	32.5	34.5
42.5°	32.5	34.5
45°	32.5	34.5
47.5°	32.5	34.5
50°	32.5	34.5
52.5°	32.0	34.5
55°	32.0	34.0
57.5°	31.0	33.0
60°	30.0	32.0
62.5°	29.0	31.0
65°	27.5	29.5
67.5°	26.0	27.5
70°	23.5	25.5
72.5°	21.0	22.5
75°	18.0	19.5
77.5°	15.0	16.5
80°	12.0	13.0
82.5°	8.5	9.5
85°	5.5	6.0
87.5°	2.5	2.5
90°	0.0	0.0

(END OF REPORT)