

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: P1305669

Luminaire Tested: P3SQAS05R659024DE010 E3SQCA451MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1305669
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: P3SQAS05R659024DE010 E3SQCA451MW
Description: 3in Adjustable LED luminaire with, R65 optic, 2400K CCT AND, 90CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

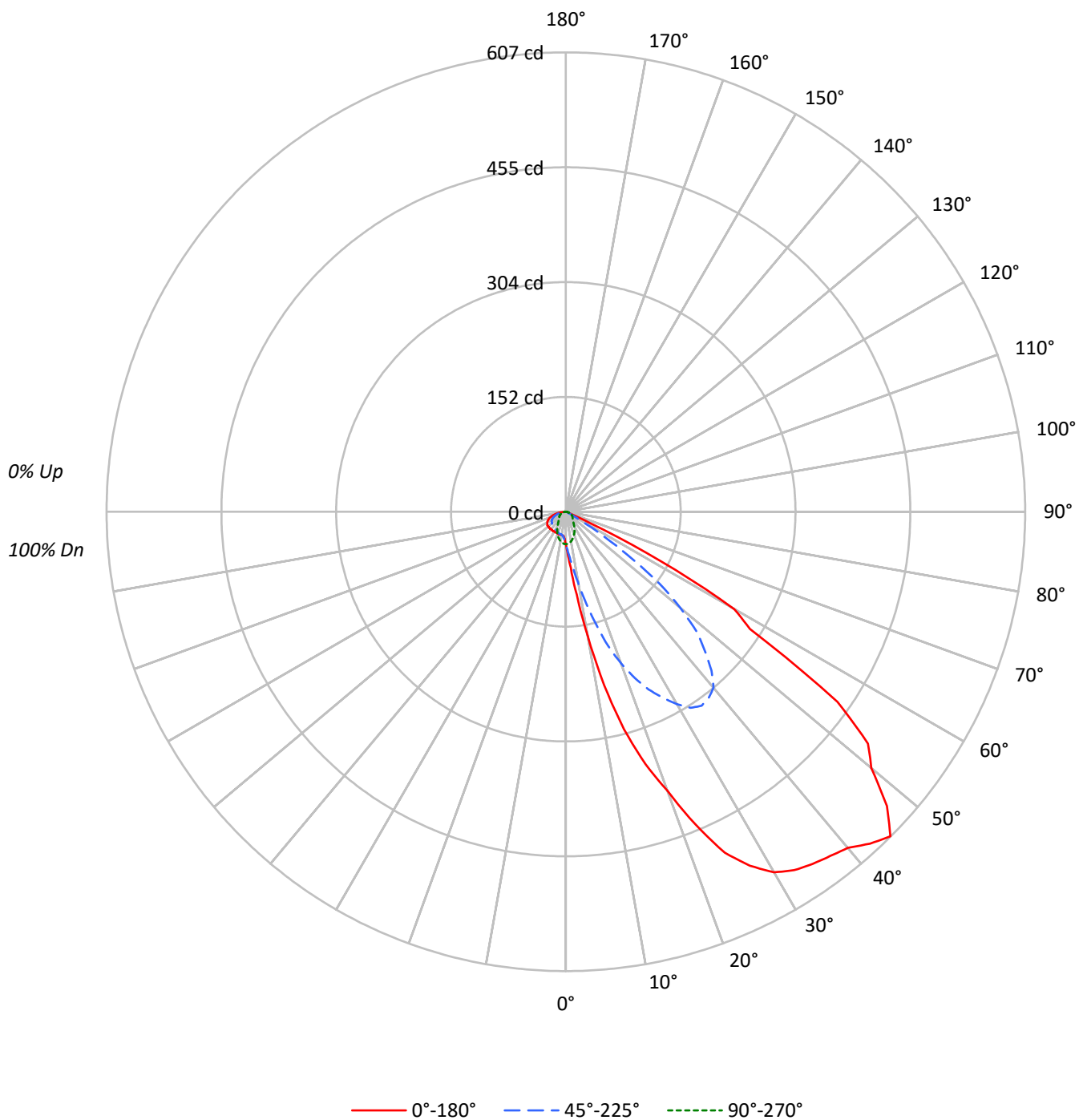
Lumens per Lamp: N/A
Luminaire Lumens: 440.0 lumens
Efficiency: N/A
Efficacy: 61.1 lumens/watt
Spacing Criteria (0/90/45): 3.28 / 0.89 / 2.04
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P1305669

CATALOG NUMBER: P3SQAS05R659024DE010 E3SQCA451MW

Luminous Intensity Polar Plot



TEST NUMBER: P1305669

CATALOG NUMBER: P3SQAS05R659024DE010 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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	110	106	102	99	108	104	100	97	100	97	94	96	94	91	92	90	89
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47
6	71	57	49	42	69	57	48	42	55	47	42	53	46	41	51	46	41
7	65	52	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31
9	56	42	34	28	54	41	33	28	40	33	28	39	33	28	38	32	28
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	7371	7371	7371	7371	7371
5°	12897	10528	7244	5878	5636
10°	29170	16981	6943	5404	5474
15°	53026	27297	6454	5420	5581
20°	71881	38964	5828	5425	5663
25°	94481	49217	5112	5283	5777
30°	109396	58347	4395	5270	6046
35°	119461	65765	3700	5382	6391
40°	130329	68233	3282	5643	6835
45°	147743	63301	3118	6016	7404
50°	141146	52836	3081	6377	8145
55°	131544	29666	3183	6876	9008
60°	88591	6372	3203	7302	9713
65°	13652	1630	3056	7539	10595
70°	1561	1561	2870	7755	11330
75°	1464	1464	2662	7652	11445
80°	1289	1785	2579	7042	11406
85°	790	1778	2569	6916	10473

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 147743 cd/sqm

TEST NUMBER: P1305669

CATALOG NUMBER: P3SQAS05R659024DE010 E3SQCA451MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.2	1.2
10°-20°	28.0	6.4
20°-30°	65.7	14.9
30°-40°	99.3	22.6
40°-50°	114.2	25.9
50°-60°	90.6	20.6
60°-70°	27.2	6.2
70°-80°	7.4	1.7
80°-90°	2.5	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°	98.9	22.5
0°-40°	198.2	45.0
0°-60°	403.0	91.6
0°-90°	440.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	440.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	43	43	43	43	43	
5°	75	61	42	34	33	10
15°	297	153	36	30	31	86
25°	497	259	27	28	30	227
35°	568	313	18	26	30	357
45°	607	260	13	25	30	451
55°	438	99	11	23	30	361
65°	34	4	8	18	26	75
75°	2	2	4	12	17	2
85°	0	1	1	4	5	1
90°	0	0	0	0	0	

TEST NUMBER: P1305669

CATALOG NUMBER: P3SQAS05R659024DE010 E3SQCA451MW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8
2.5°	54.3	54.7	54.3	54.3	53.8	53.4	50.3	46.8	42.8	39.7	37.5
5°	74.6	75.0	73.7	73.7	72.8	71.5	60.9	50.7	41.9	37.1	34.0
7.5°	110.3	112.1	109.9	107.2	102.4	101.5	75.9	54.7	41.0	34.4	31.8
10°	166.8	165.4	163.2	157.9	149.6	145.6	97.1	58.7	39.7	32.6	30.9
12.5°	235.1	231.6	229.0	219.3	207.8	201.2	123.5	62.2	37.9	30.9	30.4
15°	297.4	294.7	288.5	279.3	265.1	259.9	153.1	64.4	36.2	29.6	30.4
17.5°	349.8	347.2	343.7	334.4	319.9	311.9	186.2	65.7	34.0	28.7	30.0
20°	392.2	390.4	385.6	378.1	363.5	356.0	212.6	65.7	31.8	27.8	29.6
22.5°	446.9	442.9	436.8	425.7	407.6	396.2	237.8	64.4	29.6	26.9	28.7
25°	497.2	494.6	486.6	473.4	454.0	442.5	259.0	61.8	26.9	25.6	27.8
27.5°	527.2	525.4	517.9	504.3	482.6	473.8	276.6	57.8	24.3	24.3	27.4
30°	550.1	546.6	539.1	525.9	503.8	493.2	293.4	52.9	22.1	22.9	26.5
32.5°	561.6	560.3	553.7	542.2	520.6	508.7	307.1	46.8	19.4	22.1	26.0
35°	568.2	566.9	561.6	550.6	530.3	518.8	312.8	41.0	17.6	21.2	25.6
37.5°	573.5	572.2	565.6	554.6	534.3	522.3	310.1	34.9	15.9	20.3	25.1
40°	579.7	574.8	564.7	553.7	535.1	523.7	303.5	29.1	14.6	19.9	25.1
42.5°	594.7	577.9	562.1	551.9	534.3	521.0	284.6	22.9	13.2	19.0	24.7
45°	606.6	577.1	556.8	548.8	530.7	515.7	259.9	16.8	12.8	18.5	24.7
47.5°	575.3	557.2	547.9	543.5	524.1	507.8	234.3	11.5	12.4	18.1	24.3
50°	526.8	524.6	521.0	521.5	503.8	490.6	197.2	7.9	11.5	17.6	23.8
52.5°	503.4	500.7	494.6	490.1	472.5	461.0	156.2	6.2	11.0	17.2	23.4
55°	438.1	439.8	433.2	435.9	430.6	424.8	98.8	5.7	10.6	16.3	22.9
57.5°	288.5	297.4	312.8	331.3	348.1	359.6	53.4	5.7	9.7	15.9	22.1
60°	257.2	255.0	254.6	258.1	265.6	271.8	18.5	5.3	9.3	14.6	21.2
62.5°	140.7	139.9	153.1	175.6	188.8	190.1	5.3	5.3	8.4	13.7	19.9
65°	33.5	34.9	38.8	48.5	57.4	63.1	4.0	4.9	7.5	12.8	18.5
67.5°	5.3	5.7	5.7	7.1	7.9	7.9	3.5	4.4	6.6	11.5	17.2
70°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	4.0	5.7	10.1	15.4
72.5°	2.6	2.6	2.6	2.6	2.6	2.6	3.1	3.5	4.9	8.8	13.2
75°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	3.1	4.0	7.1	11.5
77.5°	1.8	1.8	1.8	1.8	1.8	1.8	2.2	2.6	3.5	5.7	9.3
80°	1.3	1.3	1.3	1.3	1.3	1.3	1.8	2.2	2.6	4.4	7.1
82.5°	0.9	0.9	0.9	0.9	0.9	0.9	1.3	1.8	2.2	3.5	5.3
85°	0.4	0.4	0.4	0.4	0.9	0.9	0.9	1.3	1.3	2.2	3.5
87.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.9	0.9	0.9	1.3	1.8
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: P1305669

CATALOG NUMBER: P3SQAS05R659024DE010 E3SQCA451MW

CANDELA DISTRIBUTION (continued):

	157.5°	180°
0°	42.8	42.8
2.5°	36.2	35.7
5°	32.6	32.6
7.5°	31.3	31.3
10°	30.9	31.3
12.5°	30.9	31.3
15°	30.9	31.3
17.5°	30.9	31.3
20°	30.4	30.9
22.5°	30.0	30.4
25°	29.6	30.4
27.5°	29.1	30.4
30°	29.1	30.4
32.5°	29.1	30.4
35°	28.7	30.4
37.5°	28.7	30.4
40°	28.7	30.4
42.5°	28.7	30.4
45°	28.7	30.4
47.5°	28.7	30.4
50°	28.7	30.4
52.5°	28.2	30.4
55°	28.2	30.0
57.5°	27.4	29.1
60°	26.5	28.2
62.5°	25.6	27.4
65°	24.3	26.0
67.5°	22.9	24.3
70°	20.7	22.5
72.5°	18.5	19.9
75°	15.9	17.2
77.5°	13.2	14.6
80°	10.6	11.5
82.5°	7.5	8.4
85°	4.9	5.3
87.5°	2.2	2.2
90°	0.0	0.0

(END OF REPORT)