

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: P1317762

Luminaire Tested: P3SQAS05R559835DE010 E3SQCA451MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1317762
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-80)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS05R559835DE010 E3SQCA451MW
Description: 3in Adjustable LED luminaire with, R55 optic, 3500K CCT AND, 98CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

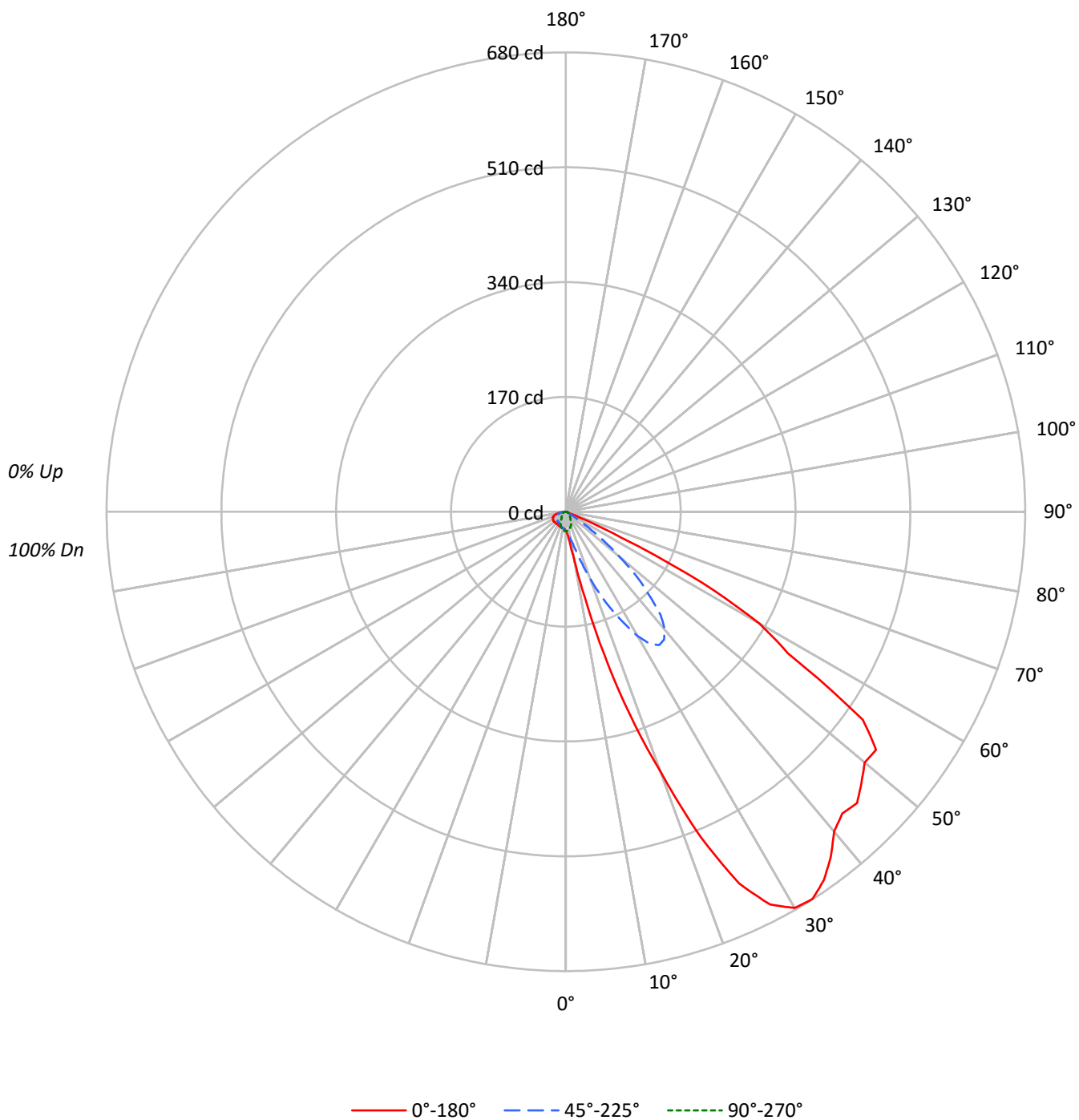
Lumens per Lamp: N/A
Luminaire Lumens: 437.0 lumens
Efficiency: N/A
Efficacy: 60.7 lumens/watt
Spacing Criteria (0/90/45): 3.76 / 0.9 / 1.95
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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: P1317762

CATALOG NUMBER: P3SQAS05R559835DE010 E3SQCA451MW

Luminous Intensity Polar Plot



TEST NUMBER: P1317762

CATALOG NUMBER: P3SQAS05R559835DE010 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	107	104	100	97	99	97	94	95	93	91	92	90	88
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75
3	91	81	73	67	89	80	72	67	77	71	65	74	69	64	72	67	63
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54
5	76	63	54	47	74	62	53	47	60	52	47	58	51	46	56	50	46
6	69	56	47	40	68	55	46	40	53	46	40	51	45	39	50	44	39
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	38	34
8	59	45	36	30	57	44	36	30	43	35	30	41	35	29	40	34	29
9	54	40	32	26	53	40	32	26	39	31	26	38	31	26	36	30	26
10	50	37	28	23	49	36	28	23	35	28	23	34	27	23	33	27	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	4857	4857	4857	4857	4857
5°	6206	5670	4875	4547	4408
10°	12626	7223	4722	4320	4320
15°	38762	11090	4404	4208	4333
20°	74941	19391	3959	4105	4325
25°	115346	30157	3439	3972	4333
30°	134672	42160	2844	3918	4455
35°	139960	50648	2355	3890	4625
40°	138894	51124	2181	4069	5036
45°	148498	42331	2070	4408	5456
50°	154757	27945	2063	4769	6109
55°	161150	12161	2102	5225	6726
60°	113839	2790	2136	5718	7578
65°	37124	937	2038	6153	8517
70°	1158	957	2115	6596	9718
75°	998	998	1797	6920	10780
80°	793	1190	1884	6943	11505
85°	790	1581	2371	6916	11461

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 163746 cd/sqm

TEST NUMBER: P1317762

CATALOG NUMBER: P3SQAS05R559835DE010 E3SQCA451MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.0	0.7
10°-20°	18.6	4.2
20°-30°	62.2	14.2
30°-40°	102.1	23.4
40°-50°	113.9	26.1
50°-60°	95.9	21.9
60°-70°	32.5	7.4
70°-80°	6.4	1.5
80°-90°	2.4	0.5
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°	83.7	19.2
0°-40°	185.9	42.5
0°-60°	395.7	90.6
0°-90°	437.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	437.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	28	28	28	28	28	
5°	36	33	28	26	26	4
15°	217	62	25	24	24	69
25°	607	159	18	21	23	273
35°	666	241	11	18	22	413
45°	610	174	8	18	22	466
55°	537	40	7	17	22	437
65°	91	2	5	15	21	123
75°	2	2	3	10	16	2
85°	0	1	1	4	6	1
90°	0	0	0	0	0	

TEST NUMBER: P1317762

CATALOG NUMBER: P3SQAS05R559835DE010 E3SQCA451MW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2
2.5°	30.9	30.9	30.9	30.9	30.9	30.9	30.5	29.3	28.6	27.4	27.0
5°	35.9	35.9	35.9	35.5	35.5	34.8	32.8	30.1	28.2	26.6	26.3
7.5°	46.3	45.9	45.2	44.8	43.6	43.2	36.3	30.9	27.8	25.9	25.5
10°	72.2	71.4	70.3	66.0	62.2	59.5	41.3	31.3	27.0	25.1	24.7
12.5°	130.1	128.6	122.8	113.9	103.1	97.7	49.4	31.7	25.9	24.3	24.3
15°	217.4	215.5	204.6	192.3	172.6	161.8	62.2	31.3	24.7	23.2	23.6
17.5°	313.9	308.5	297.3	281.1	254.5	241.7	81.1	30.5	23.2	22.4	23.2
20°	408.9	407.4	388.8	366.8	334.0	317.0	105.8	29.3	21.6	21.2	22.4
22.5°	520.1	513.5	493.8	470.3	425.1	402.7	132.4	27.8	20.1	20.1	21.6
25°	607.0	599.3	583.8	556.4	513.5	489.6	158.7	25.9	18.1	18.9	20.9
27.5°	655.6	646.7	635.2	611.6	578.4	557.2	184.9	23.6	16.2	17.8	20.1
30°	677.2	674.9	666.4	649.1	618.6	599.6	212.0	20.9	14.3	16.6	19.7
32.5°	679.6	680.7	677.2	666.0	642.9	626.7	232.1	18.5	12.7	15.8	18.9
35°	665.7	669.9	672.2	667.6	652.5	639.4	240.9	15.8	11.2	15.1	18.5
37.5°	644.0	651.8	659.5	660.6	651.4	642.9	238.6	13.5	10.4	14.7	18.5
40°	617.8	624.7	640.6	650.6	647.5	641.3	227.4	11.2	9.7	13.9	18.1
42.5°	605.8	607.4	624.3	641.3	640.6	635.5	207.7	8.9	8.9	13.9	18.1
45°	609.7	602.7	613.9	633.6	632.5	625.9	173.8	7.0	8.5	13.5	18.1
47.5°	593.5	583.8	602.7	625.9	621.6	612.0	143.6	5.0	8.1	13.1	17.8
50°	577.6	576.1	590.8	602.3	596.5	591.1	104.3	3.9	7.7	12.7	17.8
52.5°	578.8	576.1	577.6	577.2	565.7	559.9	71.4	3.1	7.3	12.4	17.8
55°	536.7	528.2	520.1	522.4	523.2	519.3	40.5	2.7	7.0	12.4	17.4
57.5°	390.0	387.7	396.5	421.6	441.3	443.6	19.7	2.7	6.6	12.0	17.0
60°	330.5	329.0	329.4	336.7	347.1	340.6	8.1	2.7	6.2	11.6	16.6
62.5°	227.8	242.9	249.0	266.0	259.1	249.8	3.1	3.1	5.8	10.8	16.2
65°	91.1	90.7	99.2	107.3	105.0	98.1	2.3	2.7	5.0	10.0	15.1
67.5°	21.2	19.3	16.6	14.3	12.0	9.7	2.3	2.7	4.6	9.3	14.3
70°	2.3	2.3	2.3	2.3	2.3	1.9	1.9	2.7	4.2	8.5	13.1
72.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.3	3.5	7.3	12.0
75°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.9	2.7	6.2	10.4
77.5°	1.2	1.2	1.2	1.5	1.2	1.5	1.5	1.9	2.3	5.0	8.9
80°	0.8	0.8	1.2	1.2	1.2	1.2	1.2	1.5	1.9	4.2	7.0
82.5°	0.8	0.8	0.8	0.8	0.8	0.8	1.2	1.2	1.5	3.1	5.0
85°	0.4	0.4	0.4	0.4	0.4	0.8	0.8	1.2	1.2	2.3	3.5
87.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.8	0.8	1.2	1.2	1.5
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: P1317762

CATALOG NUMBER: P3SQAS05R559835DE010 E3SQCA451MW

CANDELA DISTRIBUTION (continued):

	157.5°	180°
0°	28.2	28.2
2.5°	26.6	26.6
5°	25.9	25.5
7.5°	25.1	25.1
10°	24.7	24.7
12.5°	24.3	24.7
15°	24.3	24.3
17.5°	23.6	23.9
20°	23.2	23.6
22.5°	22.8	23.2
25°	22.4	22.8
27.5°	22.0	22.4
30°	21.6	22.4
32.5°	21.2	22.0
35°	21.2	22.0
37.5°	21.2	22.4
40°	21.2	22.4
42.5°	21.2	22.4
45°	21.2	22.4
47.5°	21.2	22.4
50°	21.2	22.8
52.5°	21.2	22.8
55°	21.2	22.4
57.5°	20.9	22.4
60°	20.9	22.0
62.5°	20.5	21.6
65°	19.7	20.9
67.5°	18.9	20.5
70°	17.8	19.3
72.5°	16.6	17.8
75°	15.1	16.2
77.5°	13.1	13.9
80°	10.4	11.6
82.5°	8.1	8.9
85°	5.4	5.8
87.5°	2.3	2.7
90°	0.0	0.0

(END OF REPORT)