

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: P1308851

Luminaire Tested: P3SQAS05R509035DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1308851
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-79)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS05R509035DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R50 optic, 3500K CCT AND, 90CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

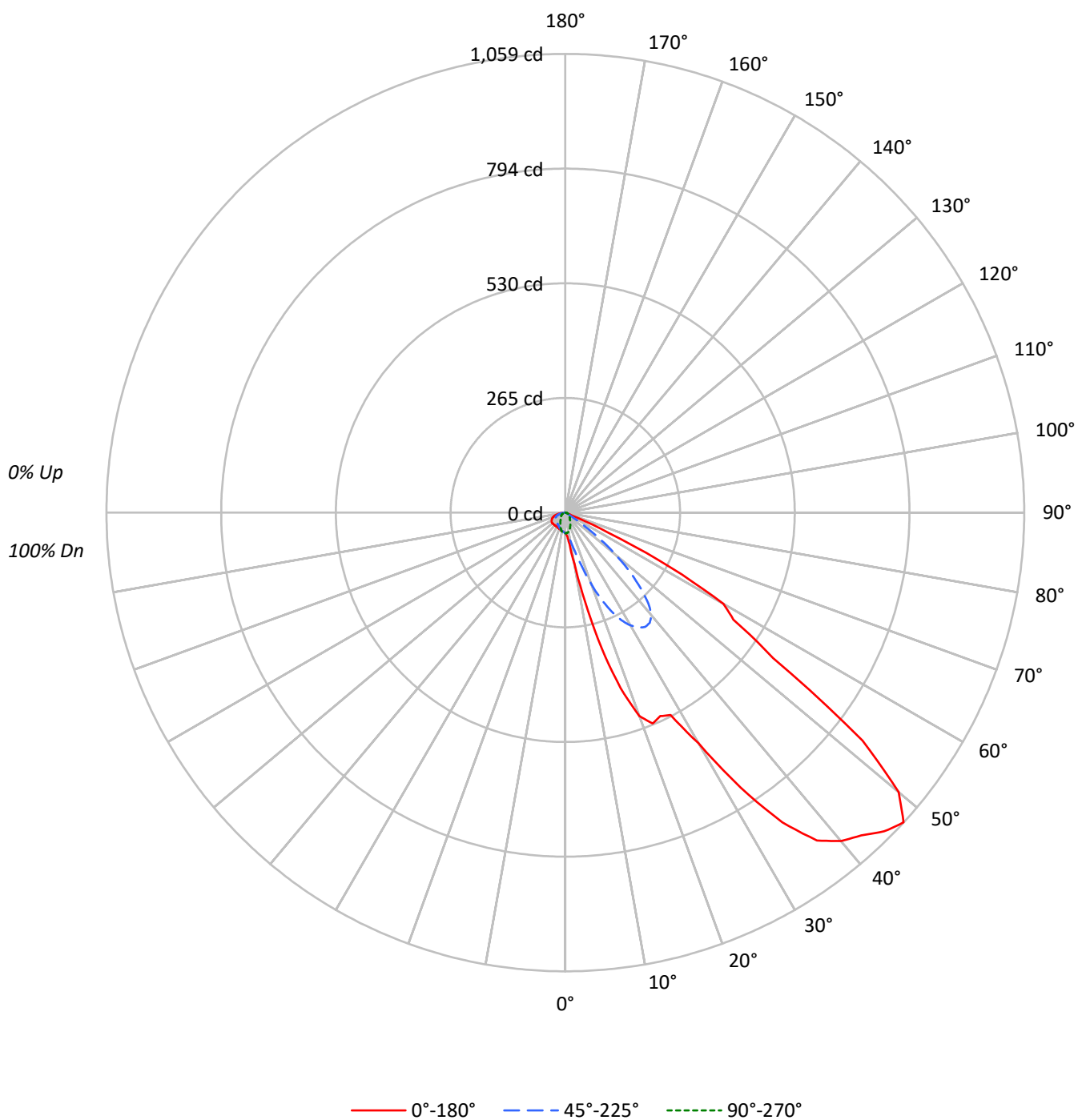
Lumens per Lamp: N/A
Luminaire Lumens: 597.0 lumens
Efficiency: N/A
Efficacy: 82.9 lumens/watt
Spacing Criteria (0/90/45): 3.58 / 0.83 / 1.91
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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: P1308851

CATALOG NUMBER: P3SQAS05R509035DE010 E3SQCA451MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1308851

CATALOG NUMBER: P3SQAS05R509035DE010 E3SQCA451MMS

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
RC	80				70				50				30				10			0
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	100	100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86	86	86
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73	73	73
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61	61	61
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51	51	51
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43	43	43
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	50	43	39	37	37	37
7	63	50	41	34	62	49	40	34	47	39	34	46	39	34	44	38	33	31	31	31
8	58	44	36	30	57	44	35	29	42	35	29	41	34	29	40	34	29	27	27	27
9	54	40	31	26	53	39	31	26	38	31	25	37	30	25	36	30	25	23	23	23
10	50	36	28	23	49	36	28	22	35	27	22	34	27	22	33	27	22	20	20	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	8163	8163	8163	8163	8163
5°	9716	9094	8108	7762	7659
10°	20916	11280	7747	7485	7572
15°	57929	18472	6989	7168	7453
20°	91583	32421	6048	6891	7276
25°	98472	47621	5188	6670	7354
30°	122243	59779	4514	6563	7597
35°	183439	67657	3911	6623	8031
40°	222460	69560	3485	6835	8453
45°	253448	59648	3385	7282	9304
50°	269003	41181	3456	7877	10369
55°	175743	16574	3393	8527	11470
60°	144943	2859	3376	9231	12607
65°	43726	1467	3138	9862	13855
70°	1813	1561	3122	10121	15056
75°	1730	1730	3061	10314	16502
80°	1488	1488	3075	10215	16860
85°	988	1976	4150	10275	16401

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 47.5°

Luminance: 269860 cd/sqm

TEST NUMBER: P1308851

CATALOG NUMBER: P3SQAS05R509035DE010 E3SQCA451MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.9	0.8
10°-20°	28.3	4.7
20°-30°	72.7	12.2
30°-40°	130.5	21.9
40°-50°	174.4	29.2
50°-60°	132.8	22.2
60°-70°	40.3	6.8
70°-80°	9.6	1.6
80°-90°	3.5	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°	105.9	17.7
0°-40°	236.4	39.6
0°-60°	543.6	91.1
0°-90°	597.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	597.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	47	47	47	47	47	
5°	56	53	47	45	44	7
15°	325	104	39	40	42	96
25°	518	251	27	35	39	247
35°	872	322	19	32	38	536
45°	1041	245	14	30	38	796
55°	585	55	11	28	38	582
65°	107	4	8	24	34	148
75°	3	3	5	16	25	3
85°	0	1	2	5	8	1
90°	0	0	0	0	0	

TEST NUMBER: P1308851

CATALOG NUMBER: P3SQAS05R509035DE010 E3SQCA451MMS

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4
2.5°	50.5	50.5	50.5	50.5	50.5	50.5	50.0	50.0	50.0	49.0	48.0
5°	56.2	56.7	56.2	56.2	55.2	55.2	54.1	54.1	52.6	49.5	46.9
7.5°	73.7	73.2	72.7	70.6	69.1	65.5	63.9	61.4	56.7	49.5	45.9
10°	119.6	116.5	114.5	109.8	100.0	93.8	85.6	77.3	64.5	49.5	44.3
12.5°	207.8	207.3	201.1	185.6	171.7	152.6	132.5	112.4	79.4	48.5	42.3
15°	324.9	320.2	311.5	293.4	268.7	238.7	202.7	167.1	103.6	46.9	39.2
17.5°	424.9	419.2	412.5	394.5	366.1	328.5	285.2	236.2	136.6	44.9	36.1
20°	499.7	496.1	490.4	475.9	449.1	415.1	366.6	307.3	176.9	42.3	33.0
22.5°	527.0	526.5	527.5	522.4	508.9	482.1	435.7	373.8	216.6	39.2	29.9
25°	518.2	517.7	524.4	531.1	534.2	523.4	487.8	427.5	250.6	36.6	27.3
27.5°	526.5	524.9	521.8	522.9	531.6	537.8	521.3	468.7	280.0	33.0	24.8
30°	614.7	605.9	592.0	568.2	550.7	549.2	542.0	501.2	300.6	29.4	22.7
32.5°	752.3	741.5	716.2	672.4	630.6	598.7	576.0	528.5	315.1	25.8	20.1
35°	872.5	864.7	835.4	792.0	732.2	672.4	631.2	568.8	321.8	22.7	18.6
37.5°	954.0	950.9	922.0	875.6	814.7	744.1	689.4	610.0	320.2	19.1	17.0
40°	989.5	980.3	956.0	916.8	855.5	792.0	734.3	636.3	309.4	15.5	15.5
42.5°	1010.7	1000.4	974.1	936.9	876.6	809.1	739.4	625.0	283.6	12.4	15.0
45°	1040.6	1029.8	995.2	955.5	894.7	816.3	719.3	584.7	244.9	9.3	13.9
47.5°	1058.6	1051.4	1025.6	985.9	912.2	806.0	672.9	547.1	202.1	7.2	13.4
50°	1004.0	996.8	977.7	950.3	900.8	771.4	632.2	486.3	153.7	5.7	12.9
52.5°	864.2	870.4	874.0	881.8	845.7	694.1	571.3	437.8	103.6	4.6	11.9
55°	585.3	594.5	604.9	635.8	678.1	617.8	507.4	378.5	55.2	4.6	11.3
57.5°	460.0	456.9	453.8	451.7	484.7	509.5	446.0	302.7	23.7	4.6	10.3
60°	420.8	411.5	405.3	406.8	423.4	413.6	353.2	197.5	8.3	4.6	9.8
62.5°	275.9	283.1	297.0	320.7	309.4	265.6	205.2	78.4	4.1	4.6	8.8
65°	107.3	103.6	107.3	114.0	98.5	73.2	45.9	13.9	3.6	4.1	7.7
67.5°	14.4	12.9	9.8	6.2	5.7	5.2	4.1	3.6	3.6	4.1	7.2
70°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.1	3.1	3.6	6.2
72.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.6	5.2
75°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	3.1	4.6
77.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.6	3.6
80°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.1	3.1
82.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.5	1.5	2.1	2.6
85°	0.5	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.5	2.1
87.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.5	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: P1308851

CATALOG NUMBER: P3SQAS05R509035DE010 E3SQCA451MMS

CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
0°	47.4	47.4	47.4	47.4
2.5°	46.9	45.9	45.9	45.9
5°	45.9	44.9	44.9	44.3
7.5°	44.3	43.8	43.8	43.8
10°	43.3	42.8	43.3	43.3
12.5°	41.3	41.8	42.3	42.3
15°	39.2	40.2	41.3	41.8
17.5°	37.1	39.2	40.2	40.7
20°	35.1	37.6	39.2	39.7
22.5°	33.5	36.1	38.2	39.2
25°	31.5	35.1	37.6	38.7
27.5°	29.4	33.5	36.6	38.2
30°	27.8	33.0	36.6	38.2
32.5°	26.3	32.0	36.1	37.6
35°	25.3	31.5	36.1	38.2
37.5°	24.2	30.9	36.1	37.6
40°	23.7	30.4	36.1	37.6
42.5°	23.2	30.4	36.1	38.2
45°	22.2	29.9	36.1	38.2
47.5°	21.7	29.9	36.1	38.2
50°	21.1	29.4	36.1	38.7
52.5°	20.6	28.9	36.1	38.7
55°	19.6	28.4	35.6	38.2
57.5°	19.1	27.8	35.1	37.1
60°	18.0	26.8	34.0	36.6
62.5°	17.0	25.8	33.0	35.1
65°	15.5	24.2	31.5	34.0
67.5°	13.9	22.2	29.9	32.5
70°	12.4	20.1	27.8	29.9
72.5°	10.8	18.0	25.8	27.3
75°	9.3	15.5	22.7	24.8
77.5°	7.7	13.4	19.1	20.6
80°	5.7	10.3	15.5	17.0
82.5°	4.6	7.7	11.3	12.4
85°	3.1	5.2	7.2	8.3
87.5°	1.5	2.6	3.6	4.1
90°	0.0	0.0	0.0	0.0

(END OF REPORT)