

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: P1316876

Luminaire Tested: P3SQAS05R509830DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1316876
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: P3SQAS05R509830DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R50 optic, 3000K CCT AND, 98CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

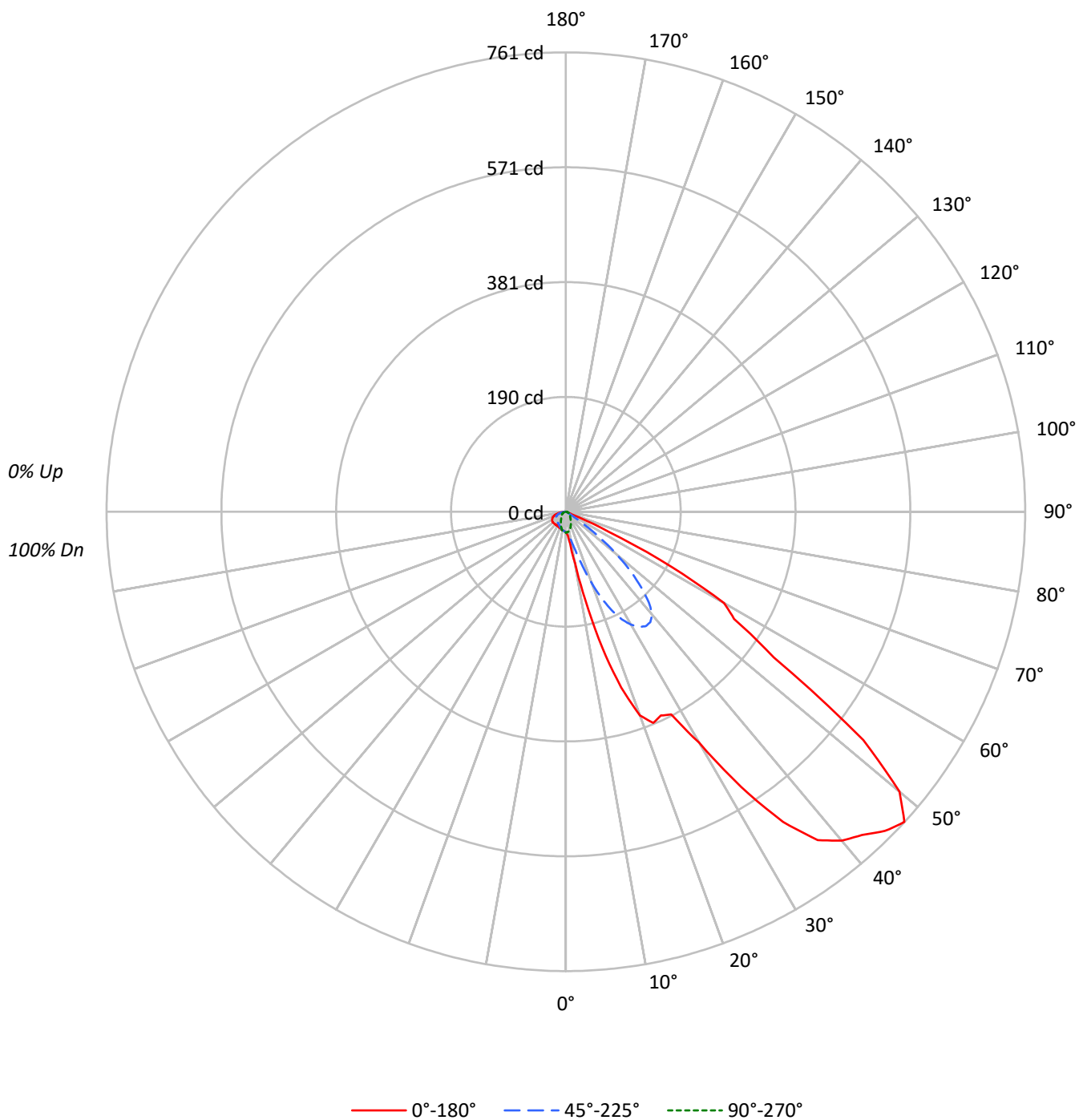
Lumens per Lamp: N/A
Luminaire Lumens: 429.0 lumens
Efficiency: N/A
Efficacy: 59.6 lumens/watt
Spacing Criteria (0/90/45): 3.58 / 0.82 / 1.91
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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: P1316876

CATALOG NUMBER: P3SQAS05R509830DE010 E3SQCA451MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1316876

CATALOG NUMBER: P3SQAS05R509830DE010 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		
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73		
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61		
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51		
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43		
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	50	43	39	37		
7	63	50	41	34	62	49	40	34	47	39	34	46	39	34	44	38	33	31		
8	58	44	36	30	57	44	35	29	42	35	29	41	34	29	40	34	29	27		
9	54	40	31	26	53	39	31	26	38	31	25	37	30	25	36	30	25	23		
10	50	36	28	23	49	36	28	22	35	27	22	34	27	22	33	27	22	20		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	5873	5873	5873	5873	5873
5°	6984	6535	5826	5567	5515
10°	15040	8097	5579	5386	5439
15°	41615	13283	5028	5153	5349
20°	65814	23294	4344	4948	5223
25°	70766	34224	3725	4789	5283
30°	87839	42955	3242	4713	5449
35°	131824	48609	2796	4752	5761
40°	159870	49978	2496	4924	6070
45°	182134	42866	2436	5237	6674
50°	193285	29580	2492	5653	7448
55°	126290	11890	2462	6125	8227
60°	104160	2032	2411	6648	9059
65°	31419	1060	2282	7091	9984
70°	1309	1108	2216	7301	10826
75°	1264	1264	2196	7386	11844
80°	1091	1091	2182	7339	12100
85°	790	1383	2964	7311	11659

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 47.5°

Luminance: 193919 cd/sqm

TEST NUMBER: P1316876

CATALOG NUMBER: P3SQAS05R509830DE010 E3SQCA451MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.6	0.8
10°-20°	20.3	4.7
20°-30°	52.2	12.2
30°-40°	93.8	21.9
40°-50°	125.3	29.2
50°-60°	95.4	22.2
60°-70°	29.0	6.8
70°-80°	6.9	1.6
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°	76.1	17.7
0°-40°	169.9	39.6
0°-60°	390.6	91.1
0°-90°	429.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	429.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	34	34	34	34	34	
5°	40	38	34	32	32	5
15°	233	74	28	29	30	69
25°	372	180	20	25	28	178
35°	627	231	13	23	27	385
45°	748	176	10	22	27	572
55°	421	40	8	20	27	418
65°	77	3	6	17	24	107
75°	2	2	3	11	18	2
85°	0	1	2	4	6	1
90°	0	0	0	0	0	

TEST NUMBER: P1316876

CATALOG NUMBER: P3SQAS05R509830DE010 E3SQCA451MMS

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	34.1	34.1	34.1	34.1	34.1	34.1	34.1	34.1	34.1	34.1	34.1
2.5°	36.3	36.3	36.3	36.3	36.3	36.3	35.9	35.9	35.9	35.2	34.5
5°	40.4	40.8	40.4	40.4	39.6	39.6	38.9	38.9	37.8	35.6	33.7
7.5°	53.0	52.6	52.2	50.8	49.7	47.1	45.9	44.1	40.8	35.6	33.0
10°	86.0	83.7	82.3	78.9	71.9	67.4	61.5	55.6	46.3	35.6	31.9
12.5°	149.3	149.0	144.5	133.4	123.4	109.7	95.2	80.8	57.1	34.8	30.4
15°	233.4	230.1	223.8	210.8	193.1	171.6	145.6	120.1	74.5	33.7	28.2
17.5°	305.3	301.3	296.4	283.5	263.1	236.0	204.9	169.7	98.2	32.2	25.9
20°	359.1	356.5	352.4	342.0	322.7	298.3	263.5	220.8	127.1	30.4	23.7
22.5°	378.7	378.3	379.1	375.4	365.7	346.5	313.1	268.6	155.6	28.2	21.5
25°	372.4	372.0	376.8	381.7	383.9	376.1	350.5	307.2	180.1	26.3	19.6
27.5°	378.3	377.2	375.0	375.7	382.0	386.5	374.6	336.8	201.2	23.7	17.8
30°	441.7	435.4	425.4	408.3	395.7	394.6	389.4	360.2	216.0	21.1	16.3
32.5°	540.6	532.8	514.7	483.2	453.2	430.2	413.9	379.8	226.4	18.5	14.5
35°	627.0	621.4	600.3	569.2	526.2	483.2	453.5	408.7	231.2	16.3	13.3
37.5°	685.5	683.3	662.5	629.2	585.5	534.7	495.4	438.4	230.1	13.7	12.2
40°	711.1	704.4	687.0	658.8	614.7	569.2	527.7	457.3	222.3	11.1	11.1
42.5°	726.3	718.9	700.0	673.3	629.9	581.4	531.4	449.1	203.8	8.9	10.7
45°	747.8	740.0	715.2	686.6	642.9	586.6	516.9	420.2	176.0	6.7	10.0
47.5°	760.7	755.5	737.0	708.5	655.5	579.2	483.6	393.1	145.3	5.2	9.6
50°	721.4	716.3	702.6	682.9	647.3	554.3	454.3	349.4	110.4	4.1	9.3
52.5°	621.0	625.5	628.1	633.6	607.7	498.8	410.6	314.6	74.5	3.3	8.5
55°	420.6	427.2	434.6	456.9	487.3	443.9	364.6	272.0	39.6	3.3	8.2
57.5°	330.5	328.3	326.1	324.6	348.3	366.1	320.5	217.5	17.0	3.3	7.4
60°	302.4	295.7	291.2	292.4	304.2	297.2	253.8	141.9	5.9	3.3	7.0
62.5°	198.2	203.4	213.4	230.5	222.3	190.8	147.5	56.3	3.0	3.3	6.3
65°	77.1	74.5	77.1	81.9	70.8	52.6	33.0	10.0	2.6	3.0	5.6
67.5°	10.4	9.3	7.0	4.4	4.1	3.7	3.0	2.6	2.6	3.0	5.2
70°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.2	2.2	2.6	4.4
72.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.6	3.7
75°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.2	3.3
77.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.9	2.6
80°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.5	2.2
82.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.1	1.1	1.5	1.9
85°	0.4	0.7	0.4	0.7	0.7	0.7	0.7	0.7	0.7	1.1	1.5
87.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.7	1.1	1.1
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: P1316876

CATALOG NUMBER: P3SQAS05R509830DE010 E3SQCA451MMS

CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
0°	34.1	34.1	34.1	34.1
2.5°	33.7	33.0	33.0	33.0
5°	33.0	32.2	32.2	31.9
7.5°	31.9	31.5	31.5	31.5
10°	31.1	30.8	31.1	31.1
12.5°	29.6	30.0	30.4	30.4
15°	28.2	28.9	29.6	30.0
17.5°	26.7	28.2	28.9	29.3
20°	25.2	27.0	28.2	28.5
22.5°	24.1	25.9	27.4	28.2
25°	22.6	25.2	27.0	27.8
27.5°	21.1	24.1	26.3	27.4
30°	20.0	23.7	26.3	27.4
32.5°	18.9	23.0	25.9	27.0
35°	18.2	22.6	25.9	27.4
37.5°	17.4	22.2	25.9	27.0
40°	17.0	21.9	25.9	27.0
42.5°	16.7	21.9	25.9	27.4
45°	15.9	21.5	25.9	27.4
47.5°	15.6	21.5	25.9	27.4
50°	15.2	21.1	25.9	27.8
52.5°	14.8	20.8	25.9	27.8
55°	14.1	20.4	25.6	27.4
57.5°	13.7	20.0	25.2	26.7
60°	13.0	19.3	24.5	26.3
62.5°	12.2	18.5	23.7	25.2
65°	11.1	17.4	22.6	24.5
67.5°	10.0	15.9	21.5	23.3
70°	8.9	14.5	20.0	21.5
72.5°	7.8	13.0	18.5	19.6
75°	6.7	11.1	16.3	17.8
77.5°	5.6	9.6	13.7	14.8
80°	4.1	7.4	11.1	12.2
82.5°	3.3	5.6	8.2	8.9
85°	2.2	3.7	5.2	5.9
87.5°	1.1	1.9	2.6	3.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)