

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: P1312164

Luminaire Tested: P3SQAS05R509727DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1312164
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: P3SQAS05R509727DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R50 optic, 2700K CCT AND, 97CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

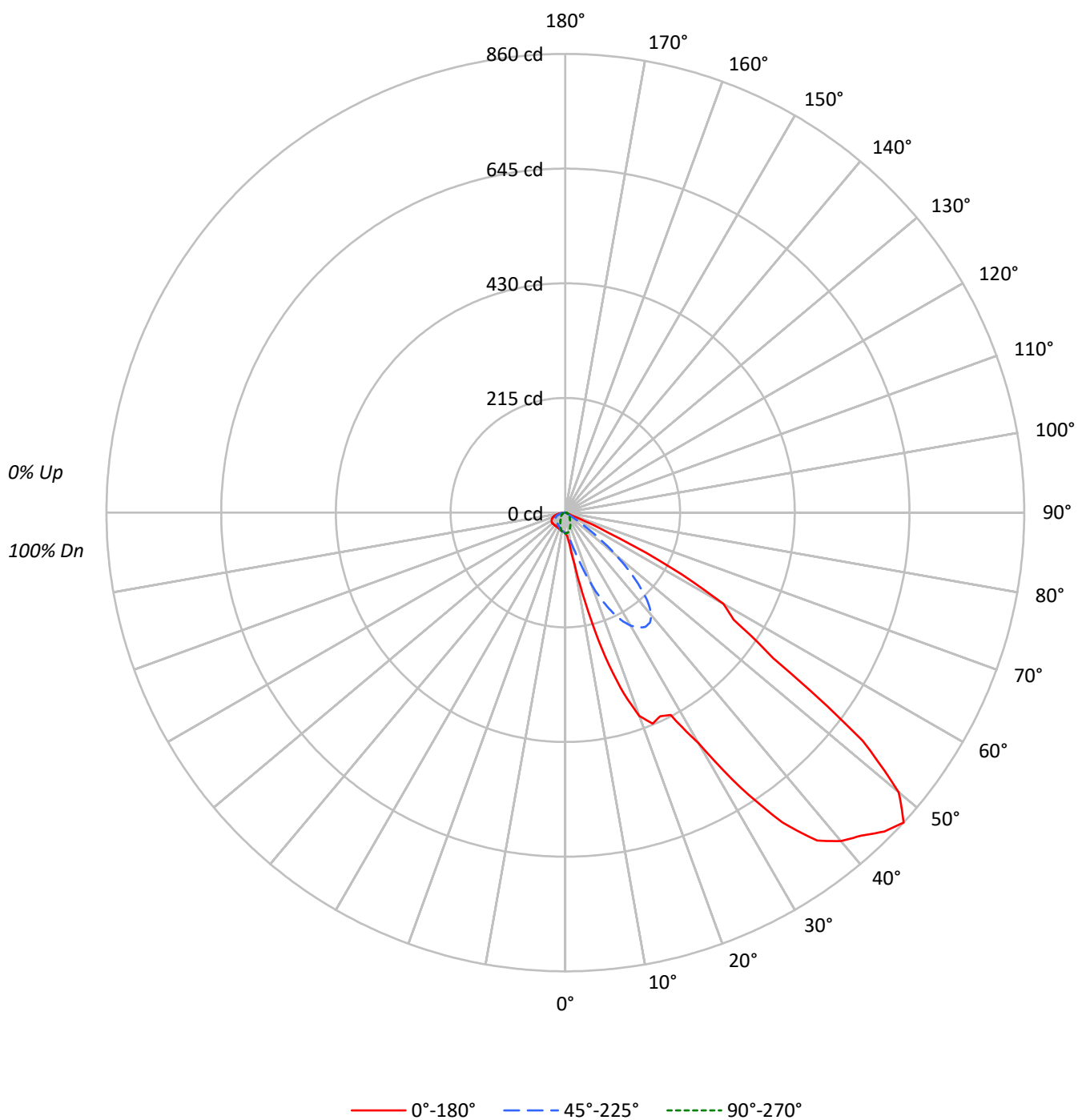
Lumens per Lamp: N/A
Luminaire Lumens: 485.0 lumens
Efficiency: N/A
Efficacy: 67.4 lumens/watt
Spacing Criteria (0/90/45): 3.58 / 0.83 / 1.91
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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

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Luminous Intensity Polar Plot



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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	55	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°	6631	6631	6631	6631	6631
5°	7901	7382	6587	6293	6224
10°	16998	9164	6296	6086	6156
15°	47053	15013	5670	5830	6044
20°	74392	26337	4912	5608	5920
25°	80001	38689	4219	5416	5967
30°	99294	48563	3659	5330	6165
35°	149022	54958	3175	5382	6518
40°	180733	56497	2833	5553	6880
45°	205905	48468	2752	5918	7550
50°	218524	33438	2813	6404	8413
55°	142774	13452	2762	6906	9308
60°	117731	2308	2756	7509	10230
65°	35494	1182	2567	8028	11247
70°	1460	1259	2518	8208	12236
75°	1397	1397	2529	8384	13375
80°	1289	1289	2479	8331	13687
85°	790	1581	3359	8299	13239

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 47.5°

Luminance: 219233 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.0	0.8
10°-20°	23.0	4.7
20°-30°	59.0	12.2
30°-40°	106.0	21.9
40°-50°	141.7	29.2
50°-60°	107.9	22.2
60°-70°	32.7	6.8
70°-80°	7.8	1.6
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°	86.0	17.7
0°-40°	192.1	39.6
0°-60°	441.6	91.1
0°-90°	485.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	485.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	38	38	38	38	38	
5°	46	43	38	36	36	6
15°	264	84	32	33	34	78
25°	421	204	22	28	31	201
35°	709	261	15	26	31	435
45°	845	199	11	24	31	646
55°	476	45	9	23	31	473
65°	87	3	6	20	28	121
75°	2	2	4	13	20	2
85°	0	1	2	4	7	1
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5
2.5°	41.1	41.1	41.1	41.1	41.1	41.1	40.6	40.6	40.6	39.8	39.0
5°	45.7	46.1	45.7	45.7	44.8	44.8	44.0	44.0	42.7	40.2	38.1
7.5°	59.9	59.5	59.1	57.4	56.1	53.2	51.9	49.9	46.1	40.2	37.3
10°	97.2	94.7	93.0	89.2	81.3	76.2	69.5	62.8	52.4	40.2	36.0
12.5°	168.8	168.4	163.4	150.8	139.5	124.0	107.7	91.3	64.5	39.4	34.4
15°	263.9	260.1	253.0	238.4	218.3	194.0	164.6	135.7	84.2	38.1	31.8
17.5°	345.2	340.6	335.1	320.5	297.4	266.8	231.7	191.9	111.0	36.4	29.3
20°	405.9	403.0	398.4	386.7	364.9	337.2	297.8	249.7	143.7	34.4	26.8
22.5°	428.1	427.7	428.5	424.4	413.5	391.7	354.0	303.7	175.9	31.8	24.3
25°	421.0	420.6	426.0	431.5	434.0	425.2	396.3	347.3	203.6	29.7	22.2
27.5°	427.7	426.5	423.9	424.8	431.9	436.9	423.5	380.8	227.5	26.8	20.1
30°	499.3	492.2	480.9	461.6	447.4	446.1	440.3	407.2	244.2	23.9	18.4
32.5°	611.2	602.4	581.9	546.3	512.3	486.4	467.9	429.4	256.0	20.9	16.3
35°	708.8	702.5	678.6	643.5	594.9	546.3	512.8	462.1	261.4	18.4	15.1
37.5°	775.0	772.5	749.0	711.3	661.9	604.5	560.1	495.6	260.1	15.5	13.8
40°	803.9	796.4	776.7	744.8	695.0	643.5	596.5	516.9	251.3	12.6	12.6
42.5°	821.1	812.7	791.3	761.2	712.2	657.3	600.7	507.7	230.4	10.1	12.1
45°	845.4	836.6	808.5	776.2	726.8	663.1	584.4	475.0	199.0	7.5	11.3
47.5°	860.0	854.2	833.2	801.0	741.1	654.8	546.7	444.5	164.2	5.9	10.9
50°	815.6	809.8	794.3	772.1	731.8	626.7	513.6	395.0	124.8	4.6	10.5
52.5°	702.1	707.1	710.1	716.3	687.0	563.9	464.2	355.7	84.2	3.8	9.6
55°	475.5	483.0	491.4	516.5	550.9	501.9	412.2	307.5	44.8	3.8	9.2
57.5°	373.7	371.2	368.6	367.0	393.8	413.9	362.4	245.9	19.3	3.8	8.4
60°	341.8	334.3	329.3	330.5	343.9	336.0	287.0	160.4	6.7	3.8	8.0
62.5°	224.1	230.0	241.3	260.6	251.3	215.7	166.7	63.7	3.4	3.8	7.1
65°	87.1	84.2	87.1	92.6	80.0	59.5	37.3	11.3	2.9	3.4	6.3
67.5°	11.7	10.5	8.0	5.0	4.6	4.2	3.4	2.9	2.9	3.4	5.9
70°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.5	2.5	2.9	5.0
72.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.9	4.2
75°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.5	3.8
77.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	2.1	2.9
80°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.7	2.5
82.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.3	1.3	1.7	2.1
85°	0.4	0.8	0.4	0.8	0.8	0.8	0.8	0.8	0.8	1.3	1.7
87.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8	1.3	1.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
0°	38.5	38.5	38.5	38.5
2.5°	38.1	37.3	37.3	37.3
5°	37.3	36.4	36.4	36.0
7.5°	36.0	35.6	35.6	35.6
10°	35.2	34.8	35.2	35.2
12.5°	33.5	33.9	34.4	34.4
15°	31.8	32.7	33.5	33.9
17.5°	30.2	31.8	32.7	33.1
20°	28.5	30.6	31.8	32.3
22.5°	27.2	29.3	31.0	31.8
25°	25.6	28.5	30.6	31.4
27.5°	23.9	27.2	29.7	31.0
30°	22.6	26.8	29.7	31.0
32.5°	21.4	26.0	29.3	30.6
35°	20.5	25.6	29.3	31.0
37.5°	19.7	25.1	29.3	30.6
40°	19.3	24.7	29.3	30.6
42.5°	18.9	24.7	29.3	31.0
45°	18.0	24.3	29.3	31.0
47.5°	17.6	24.3	29.3	31.0
50°	17.2	23.9	29.3	31.4
52.5°	16.8	23.5	29.3	31.4
55°	15.9	23.0	28.9	31.0
57.5°	15.5	22.6	28.5	30.2
60°	14.7	21.8	27.6	29.7
62.5°	13.8	20.9	26.8	28.5
65°	12.6	19.7	25.6	27.6
67.5°	11.3	18.0	24.3	26.4
70°	10.1	16.3	22.6	24.3
72.5°	8.8	14.7	20.9	22.2
75°	7.5	12.6	18.4	20.1
77.5°	6.3	10.9	15.5	16.8
80°	4.6	8.4	12.6	13.8
82.5°	3.8	6.3	9.2	10.1
85°	2.5	4.2	5.9	6.7
87.5°	1.3	2.1	2.9	3.4
90°	0.0	0.0	0.0	0.0

(END OF REPORT)