

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: P1311057

Luminaire Tested: P3SQAS05R509050DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1311057
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: P3SQAS05R509050DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R50 optic, 5000K CCT AND, 90CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

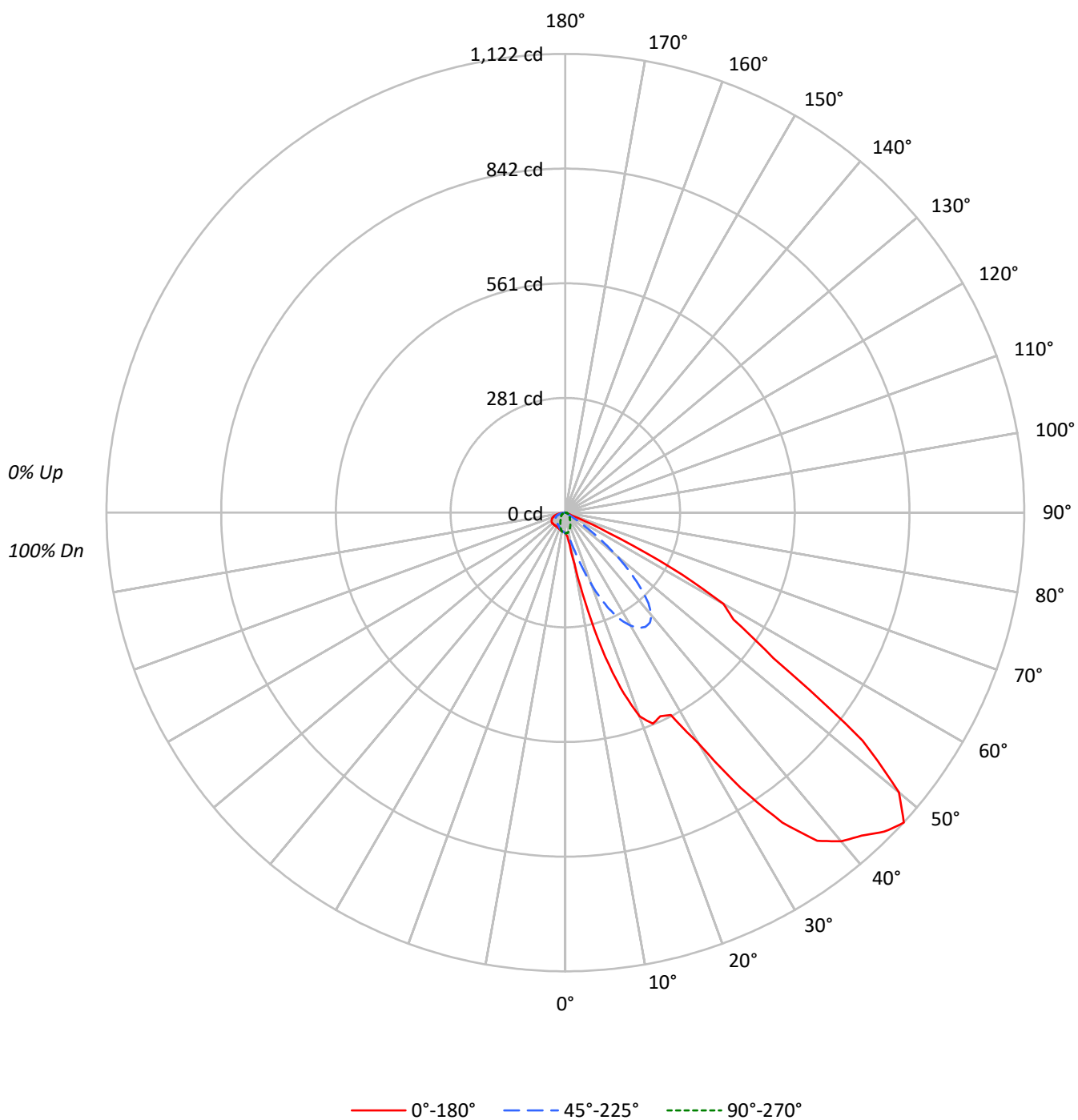
Lumens per Lamp: N/A
Luminaire Lumens: 633.0 lumens
Efficiency: N/A
Efficacy: 87.9 lumens/watt
Spacing Criteria (0/90/45): 3.58 / 0.82 / 1.91
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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

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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	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°	8663	8663	8663	8663	8663
5°	10304	9647	8609	8229	8125
10°	22175	11944	8219	7940	8027
15°	61424	19595	7417	7595	7899
20°	97099	34364	6415	7313	7716
25°	104420	50490	5511	7069	7791
30°	129601	63398	4793	6960	8054
35°	194498	71736	4142	7022	8515
40°	235882	73741	3687	7262	8970
45°	268719	63252	3605	7721	9864
50°	285212	43646	3671	8359	10985
55°	186342	17565	3603	9038	12161
60°	153657	2997	3582	9782	13364
65°	46334	1549	3342	10473	14711
70°	1913	1662	3323	10726	15962
75°	1797	1797	3261	10913	17434
80°	1587	1587	3273	10811	17852
85°	988	2174	4347	10868	17191

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 47.5°

Luminance: 286150 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.2	0.8
10°-20°	30.0	4.7
20°-30°	77.1	12.2
30°-40°	138.4	21.9
40°-50°	184.9	29.2
50°-60°	140.8	22.2
60°-70°	42.7	6.8
70°-80°	10.2	1.6
80°-90°	3.7	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°	112.3	17.7
0°-40°	250.7	39.6
0°-60°	576.4	91.1
0°-90°	633.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	633.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	50	50	50	50	50	
5°	60	56	50	48	47	8
15°	344	110	42	43	44	101
25°	550	266	29	37	41	262
35°	925	341	20	33	40	568
45°	1103	260	15	32	40	844
55°	621	58	12	30	40	617
65°	114	4	8	26	36	157
75°	3	3	5	16	26	3
85°	0	1	2	6	9	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°	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3
2.5°	53.6	53.6	53.6	53.6	53.6	53.6	53.0	53.0	53.0	51.9	50.8
5°	59.6	60.1	59.6	59.6	58.5	58.5	57.4	57.4	55.8	52.5	49.8
7.5°	78.2	77.6	77.1	74.9	73.3	69.4	67.8	65.1	60.1	52.5	48.7
10°	126.8	123.6	121.4	116.5	106.1	99.5	90.8	82.0	68.3	52.5	47.0
12.5°	220.3	219.8	213.2	196.8	182.1	161.8	140.5	119.2	84.2	51.4	44.8
15°	344.5	339.5	330.2	311.1	284.9	253.1	214.9	177.1	109.9	49.8	41.6
17.5°	450.5	444.5	437.4	418.3	388.2	348.3	302.4	250.4	144.9	47.6	38.3
20°	529.8	526.0	520.0	504.6	476.2	440.1	388.7	325.9	187.5	44.8	35.0
22.5°	558.8	558.2	559.3	553.9	539.6	511.2	462.0	396.4	229.6	41.6	31.7
25°	549.5	548.9	556.0	563.1	566.4	554.9	517.2	453.3	265.7	38.8	29.0
27.5°	558.2	556.6	553.3	554.4	563.7	570.3	552.8	497.0	296.9	35.0	26.2
30°	651.7	642.4	627.7	602.5	583.9	582.3	574.6	531.4	318.8	31.2	24.1
32.5°	797.7	786.2	759.4	713.0	668.7	634.8	610.7	560.4	334.1	27.3	21.3
35°	925.1	916.9	885.7	839.8	776.4	713.0	669.2	603.1	341.2	24.1	19.7
37.5°	1011.5	1008.2	977.6	928.4	863.9	789.0	731.0	646.8	339.5	20.2	18.0
40°	1049.2	1039.4	1013.7	972.1	907.1	839.8	778.6	674.7	328.0	16.4	16.4
42.5°	1071.6	1060.7	1032.8	993.4	929.5	857.8	784.0	662.7	300.7	13.1	15.9
45°	1103.3	1091.9	1055.2	1013.1	948.6	865.5	762.7	620.0	259.7	9.8	14.8
47.5°	1122.5	1114.8	1087.5	1045.4	967.2	854.6	713.5	580.1	214.3	7.7	14.2
50°	1064.5	1056.9	1036.6	1007.7	955.2	817.9	670.3	515.6	162.9	6.0	13.7
52.5°	916.3	922.9	926.7	934.9	896.7	735.9	605.8	464.2	109.9	4.9	12.6
55°	620.6	630.4	641.3	674.1	719.0	655.0	538.0	401.3	58.5	4.9	12.0
57.5°	487.7	484.4	481.1	479.0	513.9	540.2	472.9	320.9	25.2	4.9	10.9
60°	446.1	436.3	429.7	431.4	448.9	438.5	374.5	209.4	8.7	4.9	10.4
62.5°	292.5	300.2	314.9	340.1	328.0	281.6	217.6	83.1	4.4	4.9	9.3
65°	113.7	109.9	113.7	120.8	104.4	77.6	48.7	14.8	3.8	4.4	8.2
67.5°	15.3	13.7	10.4	6.6	6.0	5.5	4.4	3.8	3.8	4.4	7.7
70°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.3	3.3	3.8	6.6
72.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.8	5.5
75°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	3.3	4.9
77.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.7	3.8
80°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	2.2	3.3
82.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.6	1.6	2.2	2.7
85°	0.5	1.1	0.5	1.1	1.1	1.1	1.1	1.1	1.1	1.6	2.2
87.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.1	1.6	1.6
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°	50.3	50.3	50.3	50.3
2.5°	49.8	48.7	48.7	48.7
5°	48.7	47.6	47.6	47.0
7.5°	47.0	46.5	46.5	46.5
10°	45.9	45.4	45.9	45.9
12.5°	43.7	44.3	44.8	44.8
15°	41.6	42.6	43.7	44.3
17.5°	39.4	41.6	42.6	43.2
20°	37.2	39.9	41.6	42.1
22.5°	35.5	38.3	40.5	41.6
25°	33.4	37.2	39.9	41.0
27.5°	31.2	35.5	38.8	40.5
30°	29.5	35.0	38.8	40.5
32.5°	27.9	33.9	38.3	39.9
35°	26.8	33.4	38.3	40.5
37.5°	25.7	32.8	38.3	39.9
40°	25.2	32.3	38.3	39.9
42.5°	24.6	32.3	38.3	40.5
45°	23.5	31.7	38.3	40.5
47.5°	23.0	31.7	38.3	40.5
50°	22.4	31.2	38.3	41.0
52.5°	21.9	30.6	38.3	41.0
55°	20.8	30.1	37.7	40.5
57.5°	20.2	29.5	37.2	39.4
60°	19.1	28.4	36.1	38.8
62.5°	18.0	27.3	35.0	37.2
65°	16.4	25.7	33.4	36.1
67.5°	14.8	23.5	31.7	34.4
70°	13.1	21.3	29.5	31.7
72.5°	11.5	19.1	27.3	29.0
75°	9.8	16.4	24.1	26.2
77.5°	8.2	14.2	20.2	21.9
80°	6.0	10.9	16.4	18.0
82.5°	4.9	8.2	12.0	13.1
85°	3.3	5.5	7.7	8.7
87.5°	1.6	2.7	3.8	4.4
90°	0.0	0.0	0.0	0.0

(END OF REPORT)