

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: P1309994

Luminaire Tested: P3SQAS05R659040DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1309994
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-82)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS05R659040DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R65 optic, 4000K CCT AND, 90CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

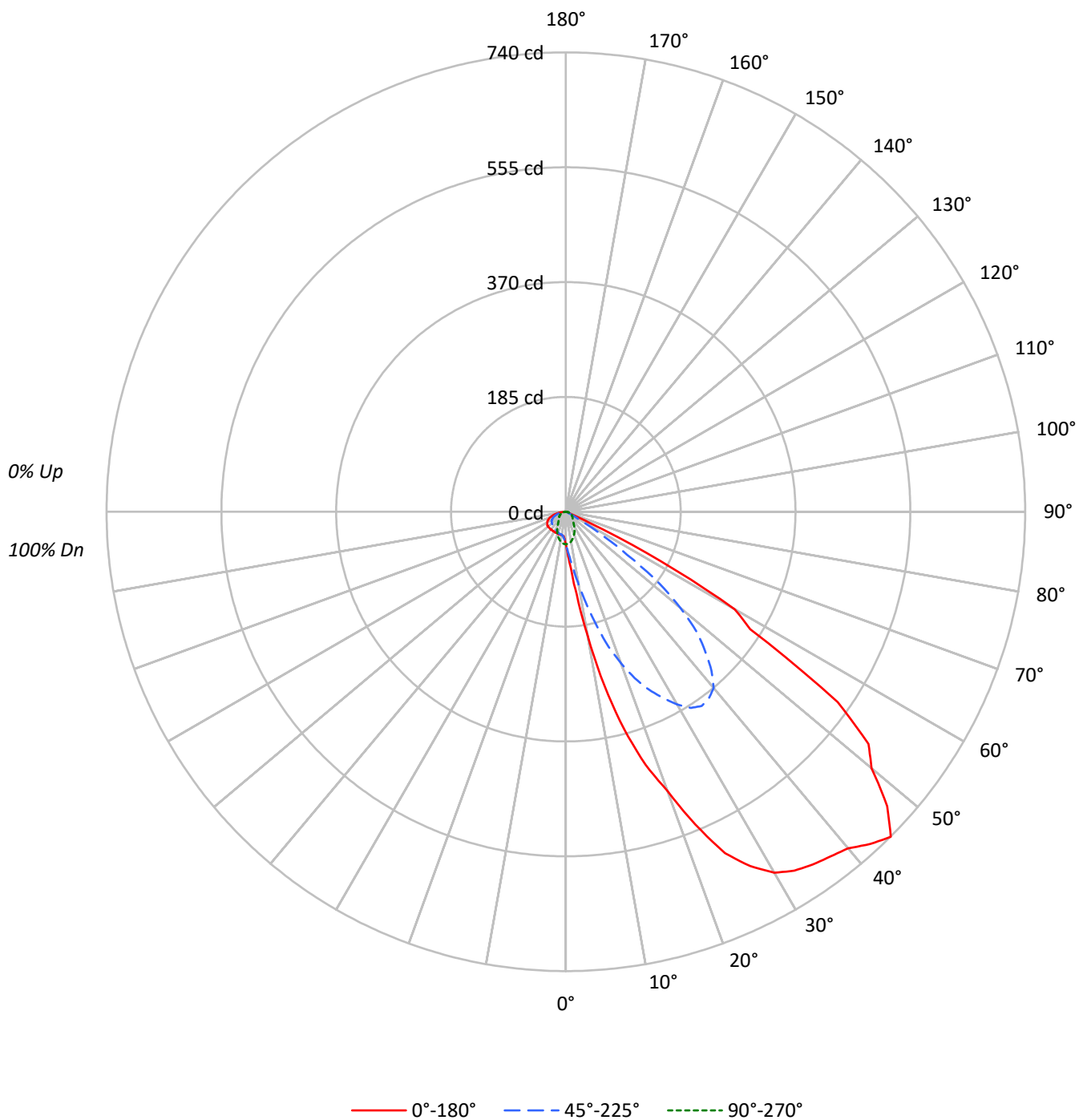
Lumens per Lamp: N/A
Luminaire Lumens: 537.0 lumens
Efficiency: N/A
Efficacy: 74.6 lumens/watt
Spacing Criteria (0/90/45): 3.28 / 0.89 / 2.04
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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
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	108	104	100	97	100	97	94	96	94	91	92	90	89
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	64
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47
6	71	57	49	42	69	57	48	42	55	47	42	53	46	41	51	46	41
7	65	52	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31
9	56	42	34	28	54	41	33	28	40	33	28	39	33	28	38	32	28
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	8990	8990	8990	8990	8990
5°	15732	12845	8851	7175	6881
10°	35588	20723	8482	6593	6680
15°	64704	33306	7881	6633	6811
20°	87734	47560	7111	6616	6909
25°	115308	60067	6233	6442	7069
30°	133518	71214	5349	6423	7398
35°	145805	80251	4520	6560	7821
40°	159061	83274	4002	6902	8363
45°	180307	77233	3800	7355	9060
50°	172253	64491	3751	7797	9967
55°	160550	36211	3873	8407	10990
60°	108121	7784	3892	8887	11883
65°	16667	1956	3749	9210	12959
70°	1913	1913	3525	9467	13847
75°	1797	1797	3194	9316	13974
80°	1587	2182	3174	8529	13885
85°	988	2174	3162	8497	12844

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 180307 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.3	1.2
10°-20°	34.1	6.4
20°-30°	80.2	14.9
30°-40°	121.2	22.6
40°-50°	139.3	25.9
50°-60°	110.6	20.6
60°-70°	33.1	6.2
70°-80°	9.0	1.7
80°-90°	3.0	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°	120.7	22.5
0°-40°	241.9	45.0
0°-60°	491.8	91.6
0°-90°	537.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	537.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	52	52	52	52	52	
5°	91	74	51	42	40	12
15°	363	187	44	37	38	104
25°	607	316	33	34	37	277
35°	694	382	22	31	37	435
45°	740	317	16	30	37	550
55°	535	121	13	28	37	441
65°	41	5	9	23	32	92
75°	3	3	5	14	21	3
85°	0	1	2	4	6	1
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2
2.5°	66.2	66.8	66.2	66.2	65.7	65.2	61.4	57.1	52.2	48.5	45.8
5°	91.0	91.5	89.9	89.9	88.8	87.2	74.3	61.9	51.2	45.2	41.5
7.5°	134.6	136.8	134.1	130.8	124.9	123.8	92.6	66.8	50.1	42.0	38.8
10°	203.5	201.9	199.2	192.8	182.5	177.7	118.5	71.6	48.5	39.8	37.7
12.5°	287.0	282.7	279.4	267.6	253.6	245.5	150.8	75.9	46.3	37.7	37.2
15°	362.9	359.7	352.1	340.8	323.6	317.1	186.8	78.6	44.2	36.1	37.2
17.5°	427.0	423.7	419.4	408.1	390.4	380.7	227.2	80.2	41.5	35.0	36.6
20°	478.7	476.5	470.6	461.4	443.7	434.5	259.5	80.2	38.8	33.9	36.1
22.5°	545.4	540.6	533.0	519.6	497.5	483.5	290.2	78.6	36.1	32.8	35.0
25°	606.8	603.6	593.9	577.7	554.0	540.0	316.1	75.4	32.8	31.2	33.9
27.5°	643.4	641.3	632.1	615.4	589.0	578.3	337.6	70.5	29.6	29.6	33.4
30°	671.4	667.1	658.0	641.8	614.9	602.0	358.1	64.6	26.9	28.0	32.3
32.5°	685.4	683.8	675.7	661.7	635.3	620.8	374.7	57.1	23.7	26.9	31.8
35°	693.5	691.9	685.4	672.0	647.2	633.2	381.7	50.1	21.5	25.8	31.2
37.5°	700.0	698.3	690.3	676.8	652.0	637.5	378.5	42.5	19.4	24.8	30.7
40°	707.5	701.6	689.2	675.7	653.1	639.1	370.4	35.5	17.8	24.2	30.7
42.5°	725.8	705.3	686.0	673.6	652.0	635.9	347.3	28.0	16.2	23.2	30.2
45°	740.3	704.3	679.5	669.8	647.7	629.4	317.1	20.5	15.6	22.6	30.2
47.5°	702.1	680.0	668.7	663.3	639.7	619.7	285.9	14.0	15.1	22.1	29.6
50°	642.9	640.2	635.9	636.4	614.9	598.7	240.7	9.7	14.0	21.5	29.1
52.5°	614.3	611.1	603.6	598.2	576.7	562.7	190.6	7.5	13.5	21.0	28.5
55°	534.7	536.8	528.7	532.0	525.5	518.5	120.6	7.0	12.9	19.9	28.0
57.5°	352.1	362.9	381.7	404.4	424.8	438.8	65.2	7.0	11.8	19.4	26.9
60°	313.9	311.2	310.7	315.0	324.1	331.7	22.6	6.5	11.3	17.8	25.8
62.5°	171.8	170.7	186.8	214.3	230.4	232.1	6.5	6.5	10.2	16.7	24.2
65°	40.9	42.5	47.4	59.2	70.0	77.0	4.8	5.9	9.2	15.6	22.6
67.5°	6.5	7.0	7.0	8.6	9.7	9.7	4.3	5.4	8.1	14.0	21.0
70°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	4.8	7.0	12.4	18.8
72.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.8	4.3	5.9	10.8	16.2
75°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	3.8	4.8	8.6	14.0
77.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.7	3.2	4.3	7.0	11.3
80°	1.6	1.6	1.6	1.6	1.6	1.6	2.2	2.7	3.2	5.4	8.6
82.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.6	2.2	2.7	4.3	6.5
85°	0.5	0.5	0.5	0.5	1.1	1.1	1.1	1.6	1.6	2.7	4.3
87.5°	0.5	0.5	0.5	0.5	0.5	0.5	1.1	1.1	1.1	1.6	2.2
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):

	157.5°	180°
0°	52.2	52.2
2.5°	44.2	43.6
5°	39.8	39.8
7.5°	38.2	38.2
10°	37.7	38.2
12.5°	37.7	38.2
15°	37.7	38.2
17.5°	37.7	38.2
20°	37.2	37.7
22.5°	36.6	37.2
25°	36.1	37.2
27.5°	35.5	37.2
30°	35.5	37.2
32.5°	35.5	37.2
35°	35.0	37.2
37.5°	35.0	37.2
40°	35.0	37.2
42.5°	35.0	37.2
45°	35.0	37.2
47.5°	35.0	37.2
50°	35.0	37.2
52.5°	34.5	37.2
55°	34.5	36.6
57.5°	33.4	35.5
60°	32.3	34.5
62.5°	31.2	33.4
65°	29.6	31.8
67.5°	28.0	29.6
70°	25.3	27.5
72.5°	22.6	24.2
75°	19.4	21.0
77.5°	16.2	17.8
80°	12.9	14.0
82.5°	9.2	10.2
85°	5.9	6.5
87.5°	2.7	2.7
90°	0.0	0.0

(END OF REPORT)