

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: P1317192

Luminaire Tested: P3SQAS13R659830DE010 E3SQCA451MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1317192
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: P3SQAS13R659830DE010 E3SQCA451MB
Description: 3in Adjustable LED luminaire with, R65 optic, 3000K CCT AND, 98CRI , E3SQCA451MB TRIM
Light Source: -
Ballast/Driver: -

Summary

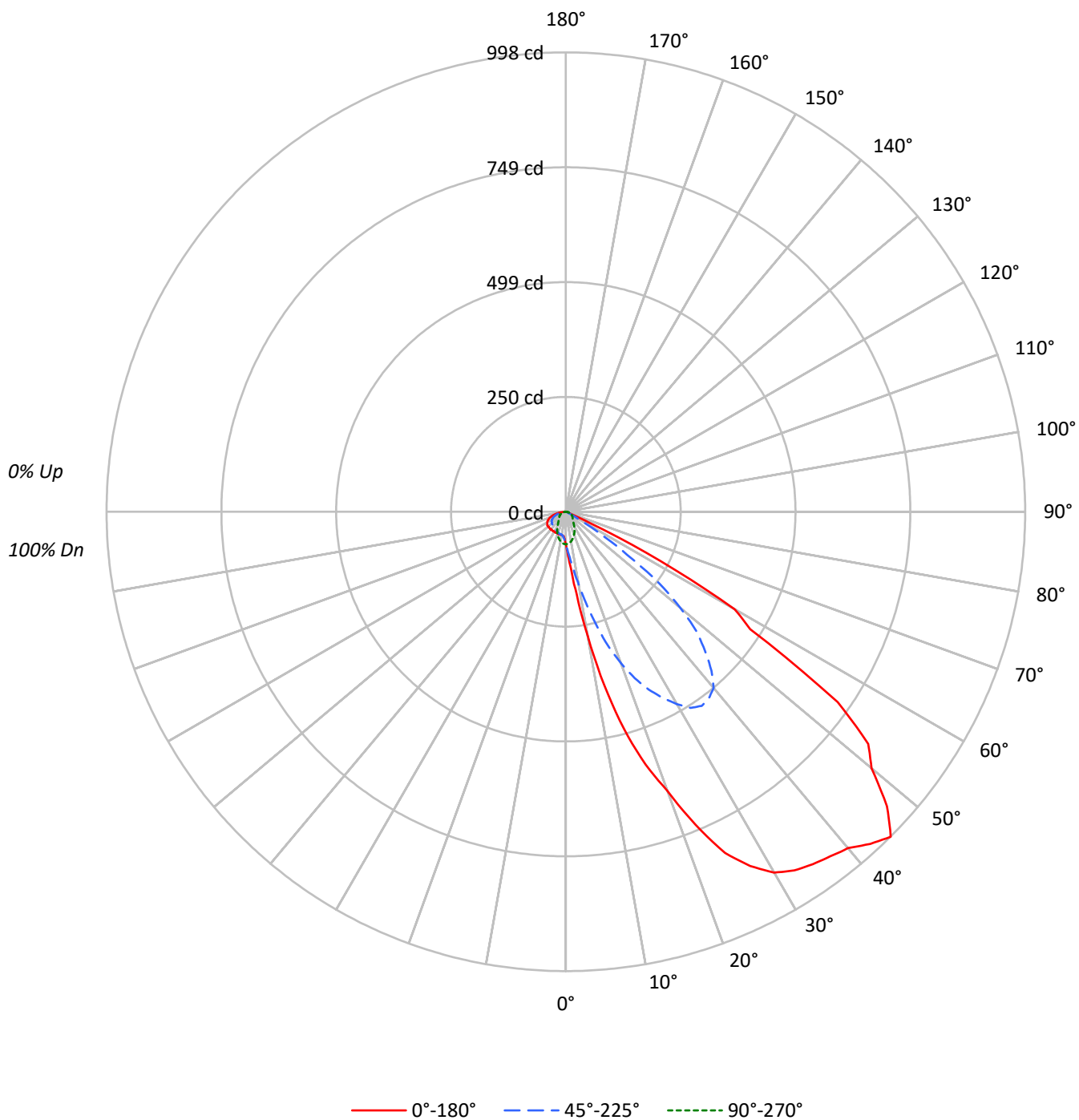
Lumens per Lamp: N/A
Luminaire Lumens: 724.0 lumens
Efficiency: N/A
Efficacy: 49.9 lumens/watt
Spacing Criteria (0/90/45): 3.28 / 0.89 / 2.04
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.5
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	99	108	104	100	97	100	97	94	96	94	91	92	90	89	87		
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	74		
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	62		
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55	53		
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45		
6	71	57	49	42	69	57	48	42	55	47	42	53	46	41	51	46	41	39		
7	65	52	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	34		
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29		
9	56	42	34	28	54	41	33	28	40	33	28	39	33	28	38	32	28	26		
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	12124	12124	12124	12124	12124
5°	21212	17323	11929	9664	9284
10°	47987	27928	11420	8884	9006
15°	87241	44913	10609	8933	9182
20°	118286	64128	9585	8907	9310
25°	155461	80970	8418	8684	9520
30°	180013	95992	7219	8671	9963
35°	196579	108213	6097	8851	10533
40°	214456	112275	5396	9308	11264
45°	243121	104146	5139	9913	12202
50°	232242	86944	5064	10503	13423
55°	216428	48822	5225	11320	14833
60°	145769	10506	5236	11987	16017
65°	22495	2649	5012	12429	17442
70°	2568	2568	4733	12790	18631
75°	2396	2396	4325	12576	18831
80°	2182	2876	4364	11505	18745
85°	1383	2964	4347	11461	17191

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 243121 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.5	1.2
10°-20°	46.0	6.4
20°-30°	108.2	14.9
30°-40°	163.4	22.6
40°-50°	187.8	25.9
50°-60°	149.1	20.6
60°-70°	44.7	6.2
70°-80°	12.1	1.7
80°-90°	4.1	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°	162.7	22.5
0°-40°	326.1	45.0
0°-60°	663.1	91.6
0°-90°	724.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	724.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	70	70	70	70	70	
5°	123	100	69	56	54	16
15°	489	252	60	50	52	141
25°	818	426	44	46	50	373
35°	935	515	29	42	50	587
45°	998	428	21	41	50	741
55°	721	163	17	38	49	594
65°	55	6	12	30	43	124
75°	4	4	6	19	28	4
85°	1	2	2	6	9	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°	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4
2.5°	89.3	90.0	89.3	89.3	88.6	87.8	82.8	76.9	70.4	65.3	61.7
5°	122.7	123.4	121.2	121.2	119.8	117.6	100.2	83.5	69.0	61.0	55.9
7.5°	181.5	184.4	180.8	176.4	168.4	167.0	124.9	90.0	67.5	56.6	52.3
10°	274.4	272.2	268.6	259.9	246.1	239.6	159.7	96.5	65.3	53.7	50.8
12.5°	386.9	381.1	376.8	360.8	341.9	331.0	203.3	102.4	62.4	50.8	50.1
15°	489.3	484.9	474.8	459.5	436.3	427.6	251.9	106.0	59.5	48.6	50.1
17.5°	575.7	571.3	565.5	550.3	526.3	513.2	306.3	108.2	55.9	47.2	49.4
20°	645.4	642.4	634.5	622.1	598.2	585.8	349.9	108.2	52.3	45.7	48.6
22.5°	735.4	728.8	718.7	700.5	670.8	651.9	391.3	106.0	48.6	44.3	47.2
25°	818.1	813.8	800.7	778.9	747.0	728.1	426.1	101.6	44.3	42.1	45.7
27.5°	867.5	864.6	852.2	829.7	794.2	779.6	455.2	95.1	39.9	39.9	45.0
30°	905.2	899.4	887.1	865.3	829.0	811.6	482.7	87.1	36.3	37.7	43.6
32.5°	924.1	921.9	911.0	892.2	856.6	837.0	505.2	76.9	31.9	36.3	42.8
35°	935.0	932.8	924.1	906.0	872.6	853.7	514.7	67.5	29.0	34.8	42.1
37.5°	943.7	941.5	930.6	912.5	879.1	859.5	510.3	57.3	26.1	33.4	41.4
40°	953.9	945.9	929.2	911.0	880.6	861.7	499.4	47.9	24.0	32.7	41.4
42.5°	978.6	951.0	924.8	908.1	879.1	857.3	468.2	37.7	21.8	31.2	40.7
45°	998.2	949.5	916.1	903.1	873.3	848.6	427.6	27.6	21.1	30.5	40.7
47.5°	946.6	916.8	901.6	894.3	862.4	835.5	385.5	18.9	20.3	29.8	39.9
50°	866.8	863.1	857.3	858.0	829.0	807.2	324.5	13.1	18.9	29.0	39.2
52.5°	828.3	823.9	813.8	806.5	777.5	758.6	257.0	10.2	18.1	28.3	38.5
55°	720.8	723.8	712.9	717.2	708.5	699.1	162.6	9.4	17.4	26.9	37.7
57.5°	474.8	489.3	514.7	545.2	572.8	591.6	87.8	9.4	16.0	26.1	36.3
60°	423.2	419.6	418.9	424.7	437.0	447.2	30.5	8.7	15.2	24.0	34.8
62.5°	231.6	230.1	251.9	288.9	310.7	312.9	8.7	8.7	13.8	22.5	32.7
65°	55.2	57.3	63.9	79.9	94.4	103.8	6.5	8.0	12.3	21.1	30.5
67.5°	8.7	9.4	9.4	11.6	13.1	13.1	5.8	7.3	10.9	18.9	28.3
70°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	6.5	9.4	16.7	25.4
72.5°	4.4	4.4	4.4	4.4	4.4	4.4	5.1	5.8	8.0	14.5	21.8
75°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	5.1	6.5	11.6	18.9
77.5°	2.9	2.9	2.9	2.9	2.9	2.9	3.6	4.4	5.8	9.4	15.2
80°	2.2	2.2	2.2	2.2	2.2	2.2	2.9	3.6	4.4	7.3	11.6
82.5°	1.5	1.5	1.5	1.5	1.5	1.5	2.2	2.9	3.6	5.8	8.7
85°	0.7	0.7	0.7	0.7	1.5	1.5	1.5	2.2	2.2	3.6	5.8
87.5°	0.7	0.7	0.7	0.7	0.7	0.7	1.5	1.5	1.5	2.2	2.9
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°	70.4	70.4
2.5°	59.5	58.8
5°	53.7	53.7
7.5°	51.5	51.5
10°	50.8	51.5
12.5°	50.8	51.5
15°	50.8	51.5
17.5°	50.8	51.5
20°	50.1	50.8
22.5°	49.4	50.1
25°	48.6	50.1
27.5°	47.9	50.1
30°	47.9	50.1
32.5°	47.9	50.1
35°	47.2	50.1
37.5°	47.2	50.1
40°	47.2	50.1
42.5°	47.2	50.1
45°	47.2	50.1
47.5°	47.2	50.1
50°	47.2	50.1
52.5°	46.5	50.1
55°	46.5	49.4
57.5°	45.0	47.9
60°	43.6	46.5
62.5°	42.1	45.0
65°	39.9	42.8
67.5°	37.7	39.9
70°	34.1	37.0
72.5°	30.5	32.7
75°	26.1	28.3
77.5°	21.8	24.0
80°	17.4	18.9
82.5°	12.3	13.8
85°	8.0	8.7
87.5°	3.6	3.6
90°	0.0	0.0

(END OF REPORT)