

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: P1310924

Luminaire Tested: P3SQAS02R659050DE010 E3SQCA451MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1310924
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: P3SQAS02R659050DE010 E3SQCA451MB
Description: 3in Adjustable LED luminaire with, R65 optic, 5000K CCT AND, 90CRI , E3SQCA451MB TRIM
Light Source: -
Ballast/Driver: -

Summary

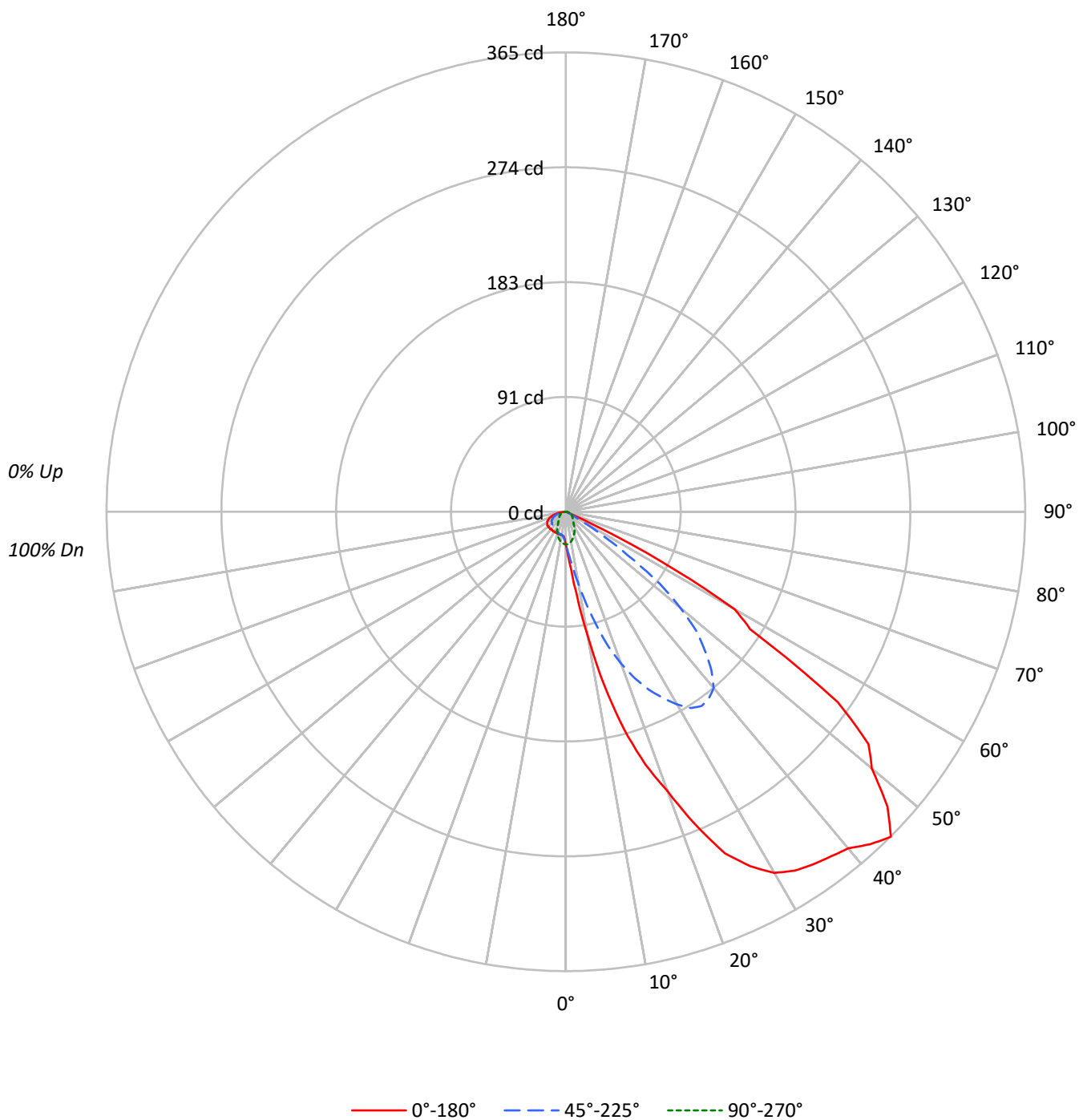
Lumens per Lamp: N/A
Luminaire Lumens: 265.0 lumens
Efficiency: N/A
Efficacy: 73.6 lumens/watt
Spacing Criteria (0/90/45): 3.28 / 0.89 / 2.04
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 3.6
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	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	64	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°	4443	4443	4443	4443	4443
5°	7762	6345	4357	3544	3406
10°	17558	10230	4180	3253	3305
15°	31933	16439	3887	3263	3370
20°	43290	23478	3501	3262	3409
25°	56913	29644	3078	3173	3477
30°	65884	35140	2645	3162	3639
35°	71946	39610	2229	3238	3847
40°	78485	41097	1978	3395	4114
45°	88972	38117	1875	3629	4457
50°	85014	31830	1849	3831	4903
55°	79209	17866	1922	4144	5435
60°	53355	3858	1929	4409	5856
65°	8232	978	1834	4564	6398
70°	957	957	1762	4683	6848
75°	865	865	1597	4591	6920
80°	793	1091	1587	4265	6843
85°	593	988	1581	4150	6323

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 88972 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.1	1.2
10°-20°	16.9	6.4
20°-30°	39.6	14.9
30°-40°	59.8	22.6
40°-50°	68.8	25.9
50°-60°	54.6	20.6
60°-70°	16.4	6.2
70°-80°	4.5	1.7
80°-90°	1.5	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°	59.6	22.5
0°-40°	119.4	45.0
0°-60°	242.7	91.6
0°-90°	265.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	265.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	26	26	26	26	26	
5°	45	37	25	20	20	6
15°	179	92	22	18	19	52
25°	300	156	16	17	18	137
35°	342	188	11	15	18	215
45°	365	156	8	15	18	271
55°	264	60	6	14	18	217
65°	20	2	4	11	16	45
75°	1	1	2	7	10	1
85°	0	0	1	2	3	0
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°	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8
2.5°	32.7	32.9	32.7	32.7	32.4	32.2	30.3	28.2	25.8	23.9	22.6
5°	44.9	45.2	44.4	44.4	43.8	43.0	36.7	30.6	25.2	22.3	20.5
7.5°	66.4	67.5	66.2	64.6	61.6	61.1	45.7	32.9	24.7	20.7	19.1
10°	100.4	99.6	98.3	95.1	90.1	87.7	58.5	35.3	23.9	19.7	18.6
12.5°	141.6	139.5	137.9	132.1	125.1	121.2	74.4	37.5	22.9	18.6	18.3
15°	179.1	177.5	173.8	168.2	159.7	156.5	92.2	38.8	21.8	17.8	18.3
17.5°	210.7	209.1	207.0	201.4	192.6	187.9	112.1	39.6	20.5	17.3	18.1
20°	236.2	235.2	232.2	227.7	218.9	214.4	128.1	39.6	19.1	16.7	17.8
22.5°	269.2	266.8	263.0	256.4	245.5	238.6	143.2	38.8	17.8	16.2	17.3
25°	299.5	297.9	293.1	285.1	273.4	266.5	156.0	37.2	16.2	15.4	16.7
27.5°	317.5	316.5	311.9	303.7	290.7	285.4	166.6	34.8	14.6	14.6	16.5
30°	331.3	329.2	324.7	316.7	303.4	297.1	176.7	31.9	13.3	13.8	15.9
32.5°	338.2	337.4	333.5	326.6	313.5	306.4	184.9	28.2	11.7	13.3	15.7
35°	342.2	341.4	338.2	331.6	319.4	312.5	188.4	24.7	10.6	12.8	15.4
37.5°	345.4	344.6	340.6	334.0	321.8	314.6	186.8	21.0	9.6	12.2	15.1
40°	349.1	346.2	340.1	333.5	322.3	315.4	182.8	17.5	8.8	12.0	15.1
42.5°	358.2	348.1	338.5	332.4	321.8	313.8	171.4	13.8	8.0	11.4	14.9
45°	365.3	347.5	335.3	330.5	319.6	310.6	156.5	10.1	7.7	11.2	14.9
47.5°	346.5	335.6	330.0	327.4	315.7	305.8	141.1	6.9	7.4	10.9	14.6
50°	317.3	315.9	313.8	314.1	303.4	295.5	118.8	4.8	6.9	10.6	14.3
52.5°	303.2	301.6	297.9	295.2	284.6	277.7	94.1	3.7	6.6	10.4	14.1
55°	263.8	264.9	260.9	262.5	259.3	255.9	59.5	3.5	6.4	9.8	13.8
57.5°	173.8	179.1	188.4	199.5	209.6	216.6	32.2	3.5	5.8	9.6	13.3
60°	154.9	153.6	153.3	155.4	160.0	163.7	11.2	3.2	5.6	8.8	12.8
62.5°	84.8	84.2	92.2	105.8	113.7	114.5	3.2	3.2	5.0	8.2	12.0
65°	20.2	21.0	23.4	29.2	34.5	38.0	2.4	2.9	4.5	7.7	11.2
67.5°	3.2	3.5	3.5	4.3	4.8	4.8	2.1	2.7	4.0	6.9	10.4
70°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.4	3.5	6.1	9.3
72.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.9	2.1	2.9	5.3	8.0
75°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.9	2.4	4.3	6.9
77.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.3	1.6	2.1	3.5	5.6
80°	0.8	0.8	0.8	0.8	0.8	0.8	1.1	1.3	1.6	2.7	4.3
82.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.8	1.1	1.3	2.1	3.2
85°	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.8	0.8	1.3	2.1
87.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.8	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

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CANDELA DISTRIBUTION (continued):

	157.5°	180°
0°	25.8	25.8
2.5°	21.8	21.5
5°	19.7	19.7
7.5°	18.9	18.9
10°	18.6	18.9
12.5°	18.6	18.9
15°	18.6	18.9
17.5°	18.6	18.9
20°	18.3	18.6
22.5°	18.1	18.3
25°	17.8	18.3
27.5°	17.5	18.3
30°	17.5	18.3
32.5°	17.5	18.3
35°	17.3	18.3
37.5°	17.3	18.3
40°	17.3	18.3
42.5°	17.3	18.3
45°	17.3	18.3
47.5°	17.3	18.3
50°	17.3	18.3
52.5°	17.0	18.3
55°	17.0	18.1
57.5°	16.5	17.5
60°	15.9	17.0
62.5°	15.4	16.5
65°	14.6	15.7
67.5°	13.8	14.6
70°	12.5	13.6
72.5°	11.2	12.0
75°	9.6	10.4
77.5°	8.0	8.8
80°	6.4	6.9
82.5°	4.5	5.0
85°	2.9	3.2
87.5°	1.3	1.3
90°	0.0	0.0

(END OF REPORT)