

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: P1317607

Luminaire Tested: P3SQAS02R509835DE010 E3SQCA451MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1317607
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: P3SQAS02R509835DE010 E3SQCA451MW
Description: 3in Adjustable LED luminaire with, R50 optic, 3500K CCT AND, 98CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

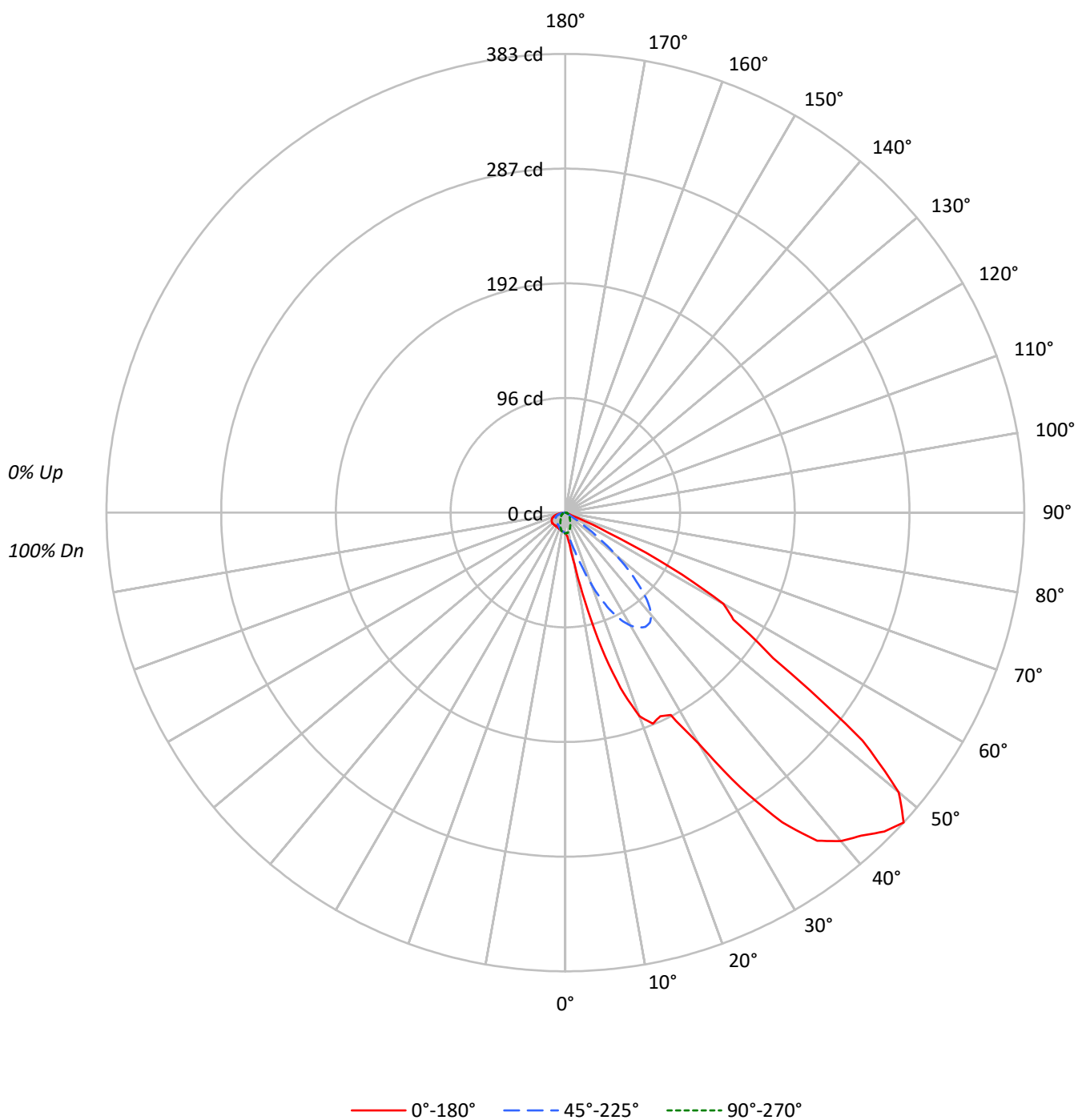
Lumens per Lamp: N/A
Luminaire Lumens: 216.0 lumens
Efficiency: N/A
Efficacy: 60.0 lumens/watt
Spacing Criteria (0/90/45): 3.58 / 0.82 / 1.91
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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	102	102	100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	88	88	86
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	75	75	73
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	63	63	61
4	83	71	63	56	81	70	62	55	67	60	55	65	59	54	63	58	53	53	53	51
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	45	45	43
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	50	43	39	39	39	37
7	63	50	41	34	62	49	40	34	47	39	34	46	39	34	44	38	33	33	33	31
8	58	44	36	30	57	44	35	29	42	35	29	41	34	29	40	34	29	29	29	27
9	54	40	31	26	53	39	31	26	38	31	25	37	30	25	36	30	25	25	25	23
10	50	36	28	23	49	36	28	22	35	27	22	34	27	22	33	27	22	22	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	2962	2962	2962	2962	2962
5°	3509	3285	2939	2801	2766
10°	7572	4075	2798	2711	2746
15°	20950	6686	2532	2603	2692
20°	33136	11730	2181	2493	2639
25°	35630	17235	1881	2413	2660
30°	44228	21637	1631	2367	2744
35°	66374	24473	1409	2397	2901
40°	80486	25157	1259	2473	3058
45°	91700	21579	1218	2630	3361
50°	97312	14897	1259	2840	3751
55°	63595	6005	1231	3093	4144
60°	52425	1033	1206	3341	4547
65°	15812	530	1141	3586	5012
70°	655	554	1108	3676	5438
75°	599	599	1131	3726	5989
80°	595	595	1091	3670	6149
85°	395	790	1383	3754	5928

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 47.5°

Luminance: 97635 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.8	0.8
10°-20°	10.2	4.7
20°-30°	26.3	12.2
30°-40°	47.2	21.9
40°-50°	63.1	29.2
50°-60°	48.1	22.2
60°-70°	14.6	6.8
70°-80°	3.5	1.6
80°-90°	1.3	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°	38.3	17.7
0°-40°	85.5	39.6
0°-60°	196.7	91.1
0°-90°	216.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	216.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	17	17	17	17	17	
5°	20	19	17	16	16	3
15°	118	38	14	15	15	35
25°	188	91	10	13	14	89
35°	316	116	7	11	14	194
45°	376	89	5	11	14	288
55°	212	20	4	10	14	211
65°	39	1	3	9	12	54
75°	1	1	2	6	9	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°	25°	30°	35°	45°	67.5°	90°
0°	17.2	17.2	17.2	17.2	17.2	17.2	17.2	17.2	17.2	17.2	17.2
2.5°	18.3	18.3	18.3	18.3	18.3	18.3	18.1	18.1	18.1	17.7	17.4
5°	20.3	20.5	20.3	20.3	20.0	20.0	19.6	19.6	19.0	17.9	17.0
7.5°	26.7	26.5	26.3	25.6	25.0	23.7	23.1	22.2	20.5	17.9	16.6
10°	43.3	42.2	41.4	39.7	36.2	34.0	31.0	28.0	23.3	17.9	16.0
12.5°	75.2	75.0	72.8	67.2	62.1	55.2	47.9	40.7	28.7	17.5	15.3
15°	117.5	115.9	112.7	106.2	97.2	86.4	73.3	60.4	37.5	17.0	14.2
17.5°	153.7	151.7	149.3	142.7	132.5	118.8	103.2	85.4	49.4	16.2	13.1
20°	180.8	179.5	177.4	172.2	162.5	150.2	132.6	111.2	64.0	15.3	11.9
22.5°	190.7	190.5	190.9	189.0	184.1	174.4	157.6	135.3	78.4	14.2	10.8
25°	187.5	187.3	189.7	192.2	193.3	189.4	176.5	154.7	90.7	13.2	9.9
27.5°	190.5	189.9	188.8	189.2	192.4	194.6	188.6	169.6	101.3	11.9	9.0
30°	222.4	219.2	214.2	205.6	199.3	198.7	196.1	181.3	108.8	10.6	8.2
32.5°	272.2	268.3	259.1	243.3	228.2	216.6	208.4	191.2	114.0	9.3	7.3
35°	315.7	312.9	302.2	286.6	264.9	243.3	228.4	205.8	116.4	8.2	6.7
37.5°	345.2	344.0	333.6	316.8	294.8	269.2	249.4	220.7	115.9	6.9	6.2
40°	358.0	354.7	345.9	331.7	309.5	286.6	265.7	230.2	111.9	5.6	5.6
42.5°	365.7	361.9	352.4	339.0	317.2	292.7	267.5	226.1	102.6	4.5	5.4
45°	376.5	372.6	360.1	345.7	323.7	295.3	260.3	211.6	88.6	3.4	5.0
47.5°	383.0	380.4	371.1	356.7	330.0	291.6	243.5	197.9	73.1	2.6	4.9
50°	363.2	360.6	353.7	343.8	325.9	279.1	228.7	175.9	55.6	2.1	4.7
52.5°	312.7	314.9	316.2	319.0	306.0	251.1	206.7	158.4	37.5	1.7	4.3
55°	211.8	215.1	218.8	230.0	245.3	223.5	183.6	136.9	20.0	1.7	4.1
57.5°	166.4	165.3	164.2	163.4	175.4	184.3	161.4	109.5	8.6	1.7	3.7
60°	152.2	148.9	146.6	147.2	153.2	149.6	127.8	71.5	3.0	1.7	3.5
62.5°	99.8	102.4	107.5	116.0	111.9	96.1	74.3	28.4	1.5	1.7	3.2
65°	38.8	37.5	38.8	41.2	35.6	26.5	16.6	5.0	1.3	1.5	2.8
67.5°	5.2	4.7	3.5	2.2	2.1	1.9	1.5	1.3	1.3	1.5	2.6
70°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.1	1.1	1.3	2.2
72.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.3	1.9
75°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.1	1.7
77.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.9	1.3
80°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.7	1.1
82.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.6	0.6	0.7	0.9
85°	0.2	0.4	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.6	0.7
87.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.6	0.6
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°	17.2	17.2	17.2	17.2
2.5°	17.0	16.6	16.6	16.6
5°	16.6	16.2	16.2	16.0
7.5°	16.0	15.9	15.9	15.9
10°	15.7	15.5	15.7	15.7
12.5°	14.9	15.1	15.3	15.3
15°	14.2	14.6	14.9	15.1
17.5°	13.4	14.2	14.6	14.7
20°	12.7	13.6	14.2	14.4
22.5°	12.1	13.1	13.8	14.2
25°	11.4	12.7	13.6	14.0
27.5°	10.6	12.1	13.2	13.8
30°	10.1	11.9	13.2	13.8
32.5°	9.5	11.6	13.1	13.6
35°	9.1	11.4	13.1	13.8
37.5°	8.8	11.2	13.1	13.6
40°	8.6	11.0	13.1	13.6
42.5°	8.4	11.0	13.1	13.8
45°	8.0	10.8	13.1	13.8
47.5°	7.8	10.8	13.1	13.8
50°	7.6	10.6	13.1	14.0
52.5°	7.5	10.4	13.1	14.0
55°	7.1	10.3	12.9	13.8
57.5°	6.9	10.1	12.7	13.4
60°	6.5	9.7	12.3	13.2
62.5°	6.2	9.3	11.9	12.7
65°	5.6	8.8	11.4	12.3
67.5°	5.0	8.0	10.8	11.8
70°	4.5	7.3	10.1	10.8
72.5°	3.9	6.5	9.3	9.9
75°	3.4	5.6	8.2	9.0
77.5°	2.8	4.9	6.9	7.5
80°	2.1	3.7	5.6	6.2
82.5°	1.7	2.8	4.1	4.5
85°	1.1	1.9	2.6	3.0
87.5°	0.6	0.9	1.3	1.5
90°	0.0	0.0	0.0	0.0

(END OF REPORT)