

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: P1317614

Luminaire Tested: P3SQAS02R559835DE010 E3SQCA451MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1317614
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-80)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS02R559835DE010 E3SQCA451MB
Description: 3in Adjustable LED luminaire with, R55 optic, 3500K CCT AND, 98CRI , E3SQCA451MB TRIM
Light Source: -
Ballast/Driver: -

Summary

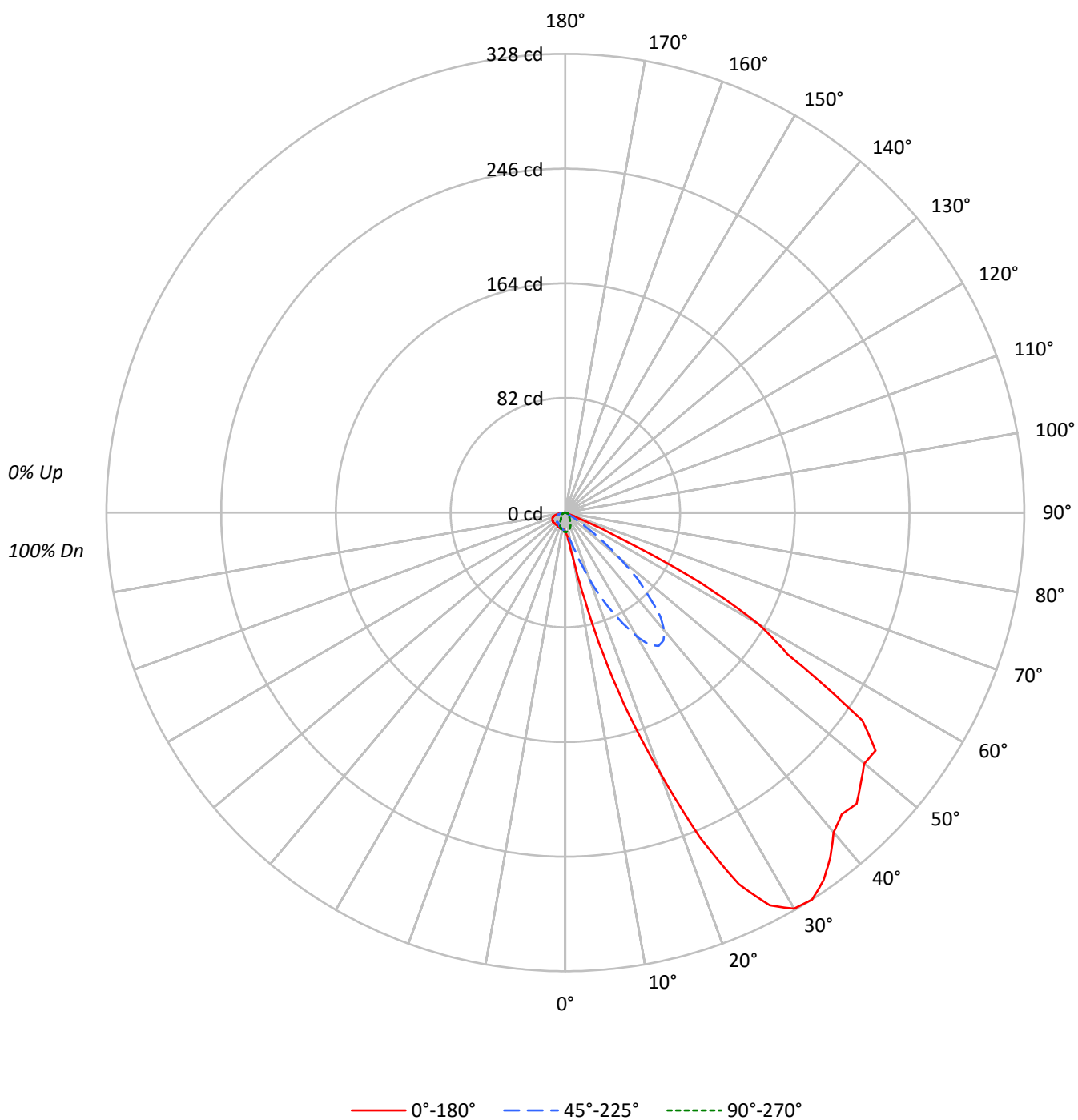
Lumens per Lamp: N/A
Luminaire Lumens: 211.0 lumens
Efficiency: N/A
Efficacy: 58.6 lumens/watt
Spacing Criteria (0/90/45): 3.76 / 0.91 / 1.95
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
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	107	104	100	97	99	97	94		95	93	91		92	90	88	86
2	100	93	86	81	98	91	85	80	87	83	78		84	80	77		81	78	75	73
3	91	81	73	67	89	80	72	67	77	71	65		74	69	64		72	67	63	61
4	83	71	63	56	81	70	62	56	68	61	55		65	59	54		63	58	54	51
5	76	63	54	47	74	62	53	47	60	52	47		58	51	46		56	50	46	43
6	69	56	47	40	68	55	46	40	53	46	40		51	45	39		50	44	39	37
7	64	50	41	35	62	49	41	35	48	40	34		46	39	34		45	38	34	32
8	59	45	36	30	57	44	36	30	43	35	30		41	35	29		40	34	29	27
9	54	40	32	26	53	40	32	26	39	31	26		38	31	26		36	30	26	24
10	50	37	28	23	49	36	28	23	35	28	23		34	27	23		33	27	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	2342	2342	2342	2342	2342
5°	2991	2732	2351	2196	2126
10°	6103	3480	2291	2081	2081
15°	18721	5349	2122	2033	2086
20°	36179	9365	1906	1979	2089
25°	55697	14556	1672	1919	2090
30°	65029	20364	1372	1889	2148
35°	67573	24451	1135	1871	2229
40°	67064	24685	1057	1978	2428
45°	71704	20435	999	2143	2630
50°	74726	13477	991	2304	2947
55°	77798	5885	1021	2522	3243
60°	54973	1343	1033	2756	3651
65°	17931	448	978	2975	4116
70°	554	453	1057	3172	4683
75°	466	466	865	3327	5190
80°	397	595	893	3372	5554
85°	395	790	1186	3359	5533

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 79072 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.4	0.7
10°-20°	9.0	4.2
20°-30°	30.0	14.2
30°-40°	49.3	23.4
40°-50°	55.0	26.1
50°-60°	46.3	21.9
60°-70°	15.7	7.4
70°-80°	3.1	1.5
80°-90°	1.2	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°	40.4	19.2
0°-40°	89.7	42.5
0°-60°	191.1	90.6
0°-90°	211.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	211.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	14	14	14	14	14	
5°	17	16	14	13	12	2
15°	105	30	12	11	12	33
25°	293	77	9	10	11	132
35°	321	116	5	9	11	200
45°	294	84	4	9	11	225
55°	259	20	3	8	11	211
65°	44	1	2	7	10	60
75°	1	1	1	5	8	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°	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6
2.5°	14.9	14.9	14.9	14.9	14.9	14.9	14.7	14.2	13.8	13.2	13.1
5°	17.3	17.3	17.3	17.2	17.2	16.8	15.8	14.5	13.6	12.9	12.7
7.5°	22.4	22.2	21.8	21.6	21.1	20.9	17.5	14.9	13.4	12.5	12.3
10°	34.9	34.5	33.9	31.9	30.0	28.7	19.9	15.1	13.1	12.1	11.9
12.5°	62.8	62.1	59.3	55.0	49.8	47.2	23.9	15.3	12.5	11.7	11.7
15°	105.0	104.0	98.8	92.8	83.3	78.1	30.0	15.1	11.9	11.2	11.4
17.5°	151.6	149.0	143.6	135.7	122.9	116.7	39.2	14.7	11.2	10.8	11.2
20°	197.4	196.7	187.7	177.1	161.3	153.1	51.1	14.2	10.4	10.3	10.8
22.5°	251.1	248.0	238.4	227.1	205.3	194.4	63.9	13.4	9.7	9.7	10.4
25°	293.1	289.3	281.9	268.6	248.0	236.4	76.6	12.5	8.8	9.1	10.1
27.5°	316.6	312.3	306.7	295.3	279.3	269.0	89.3	11.4	7.8	8.6	9.7
30°	327.0	325.9	321.8	313.4	298.7	289.5	102.4	10.1	6.9	8.0	9.5
32.5°	328.1	328.7	327.0	321.6	310.4	302.6	112.0	8.9	6.2	7.6	9.1
35°	321.4	323.5	324.6	322.3	315.1	308.7	116.3	7.6	5.4	7.3	8.9
37.5°	311.0	314.7	318.4	319.0	314.5	310.4	115.2	6.5	5.0	7.1	8.9
40°	298.3	301.6	309.3	314.1	312.6	309.7	109.8	5.4	4.7	6.7	8.8
42.5°	292.5	293.3	301.5	309.7	309.3	306.9	100.3	4.3	4.3	6.7	8.8
45°	294.4	291.0	296.4	305.9	305.4	302.2	83.9	3.4	4.1	6.5	8.8
47.5°	286.5	281.9	291.0	302.2	300.2	295.5	69.4	2.4	3.9	6.3	8.6
50°	278.9	278.2	285.2	290.8	288.0	285.4	50.3	1.9	3.7	6.2	8.6
52.5°	279.5	278.2	278.9	278.7	273.1	270.3	34.5	1.5	3.5	6.0	8.6
55°	259.1	255.0	251.1	252.2	252.6	250.7	19.6	1.3	3.4	6.0	8.4
57.5°	188.3	187.2	191.5	203.6	213.1	214.2	9.5	1.3	3.2	5.8	8.2
60°	159.6	158.8	159.0	162.6	167.6	164.4	3.9	1.3	3.0	5.6	8.0
62.5°	110.0	117.3	120.2	128.5	125.1	120.6	1.5	1.5	2.8	5.2	7.8
65°	44.0	43.8	47.9	51.8	50.7	47.4	1.1	1.3	2.4	4.8	7.3
67.5°	10.3	9.3	8.0	6.9	5.8	4.7	1.1	1.3	2.2	4.5	6.9
70°	1.1	1.1	1.1	1.1	1.1	0.9	0.9	1.3	2.1	4.1	6.3
72.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.1	1.7	3.5	5.8
75°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.9	1.3	3.0	5.0
77.5°	0.6	0.6	0.6	0.7	0.6	0.7	0.7	0.9	1.1	2.4	4.3
80°	0.4	0.4	0.6	0.6	0.6	0.6	0.6	0.7	0.9	2.1	3.4
82.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.6	0.6	0.7	1.5	2.4
85°	0.2	0.2	0.2	0.2	0.2	0.4	0.4	0.6	0.6	1.1	1.7
87.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4	0.6	0.6	0.7
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°	13.6	13.6
2.5°	12.9	12.9
5°	12.5	12.3
7.5°	12.1	12.1
10°	11.9	11.9
12.5°	11.7	11.9
15°	11.7	11.7
17.5°	11.4	11.6
20°	11.2	11.4
22.5°	11.0	11.2
25°	10.8	11.0
27.5°	10.6	10.8
30°	10.4	10.8
32.5°	10.3	10.6
35°	10.3	10.6
37.5°	10.3	10.8
40°	10.3	10.8
42.5°	10.3	10.8
45°	10.3	10.8
47.5°	10.3	10.8
50°	10.3	11.0
52.5°	10.3	11.0
55°	10.3	10.8
57.5°	10.1	10.8
60°	10.1	10.6
62.5°	9.9	10.4
65°	9.5	10.1
67.5°	9.1	9.9
70°	8.6	9.3
72.5°	8.0	8.6
75°	7.3	7.8
77.5°	6.3	6.7
80°	5.0	5.6
82.5°	3.9	4.3
85°	2.6	2.8
87.5°	1.1	1.3
90°	0.0	0.0

(END OF REPORT)