

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: P1315268

Luminaire Tested: P3SQAS09R709740DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1315268
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-83)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS09R709740DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R70 optic, 4000K CCT AND, 97CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

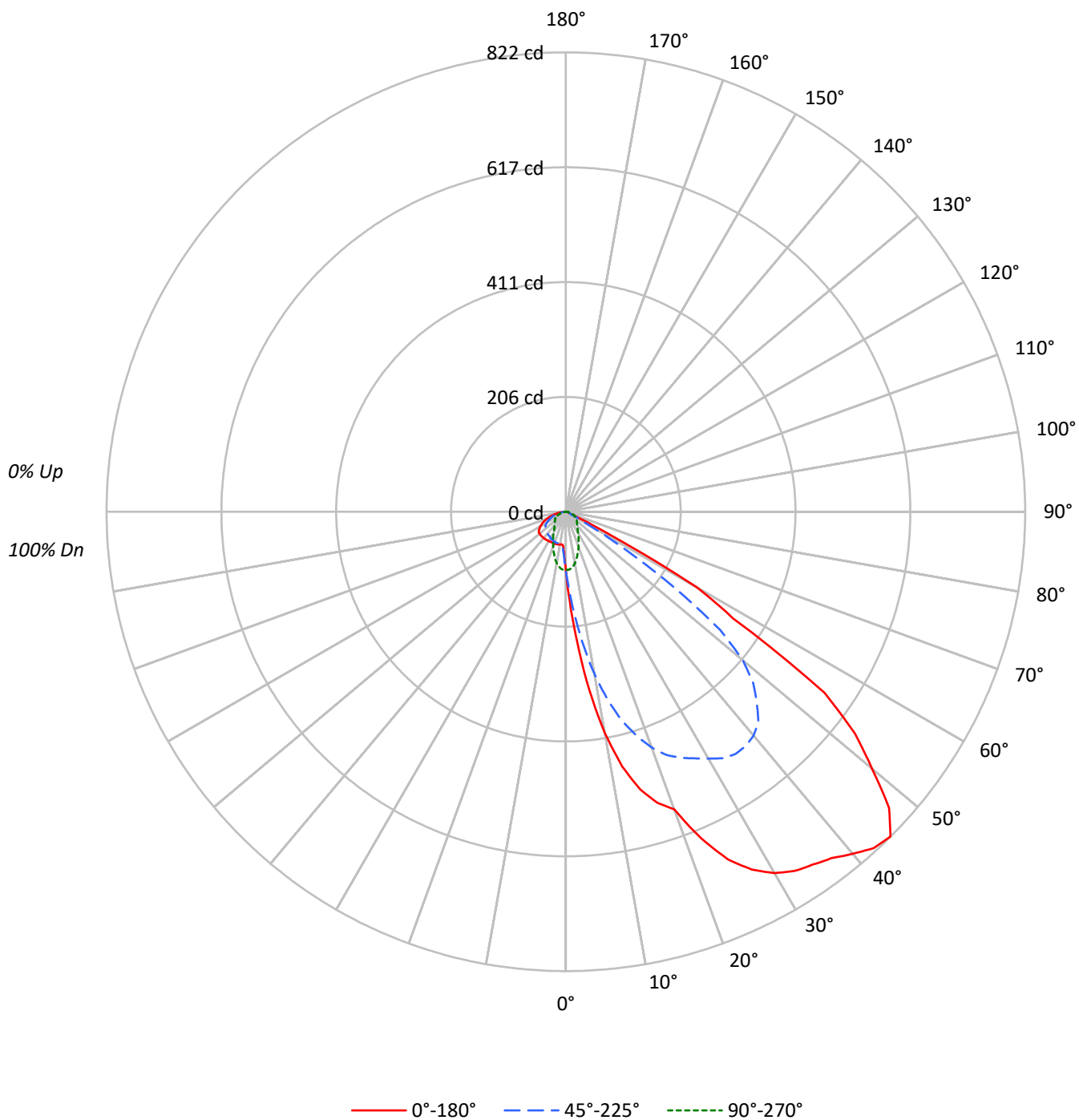
Lumens per Lamp: N/A
Luminaire Lumens: 710.0 lumens
Efficiency: N/A
Efficacy: 64.0 lumens/watt
Spacing Criteria (0/90/45): 2.92 / 0.77 / 2.03
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11.1
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
RCR																			
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100
1	110	106	103	99	108	104	101	98	100	97	95	96	94	92	93	91	89	87	87
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	75	75
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	74	69	66	64	64
4	85	74	66	59	83	72	65	59	70	63	58	68	62	57	66	61	57	54	54
5	78	66	57	51	76	65	57	51	63	55	50	61	54	49	59	53	49	47	47
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	41	41
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	35	35
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33	31	31
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28	28
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	17808	17808	17808	17808	17808
5°	40540	32450	17634	11151	10407
10°	70232	51537	16351	10160	10405
15°	91699	68841	14264	10359	10734
20°	103862	82309	12206	10520	11161
25°	130434	92334	10223	10641	11440
30°	148473	101421	8730	10838	12111
35°	162036	111262	7590	11017	12804
40°	179632	117536	7014	11466	13849
45°	200133	117664	6893	12081	15003
50°	191705	110655	6832	12727	16317
55°	169738	71672	7026	13392	17655
60°	92966	15362	7061	13674	18290
65°	6642	3749	6928	13570	18460
70°	3223	3575	6445	12840	17826
75°	2861	3793	6122	12244	16502
80°	2777	3471	5653	11207	15472
85°	2766	4150	5533	9880	14030

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 200133 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.5	1.9
10°-20°	57.7	8.1
20°-30°	110.7	15.6
30°-40°	156.6	22.0
40°-50°	177.1	24.9
50°-60°	140.3	19.8
60°-70°	37.8	5.3
70°-80°	12.6	1.8
80°-90°	3.8	0.5
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°	181.9	25.6
0°-40°	338.5	47.7
0°-60°	655.8	92.4
0°-90°	710.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	710.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	103	103	103	103	103	
5°	234	188	102	64	60	28
15°	514	386	80	58	60	145
25°	686	486	54	56	60	315
35°	771	529	36	52	61	485
45°	822	483	28	50	62	615
55°	565	239	23	45	59	459
65°	16	9	17	33	45	59
75°	4	6	9	18	25	5
85°	1	2	3	5	7	2
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	103.4	103.4	103.4	103.4	103.4	103.4	103.4	103.4	103.4	103.4	103.4
2.5°	160.8	160.8	160.1	157.3	155.8	152.3	149.5	141.7	122.5	104.1	89.3
5°	234.5	238.0	233.1	232.3	228.1	221.7	217.5	187.7	141.7	102.0	76.5
7.5°	321.6	323.0	321.6	314.5	308.1	297.5	287.6	240.8	160.8	98.5	67.3
10°	401.6	399.5	395.3	390.3	381.1	369.8	352.8	294.7	179.2	93.5	61.6
12.5°	466.8	466.1	461.1	456.2	444.9	430.0	413.0	343.6	194.8	87.1	58.8
15°	514.3	514.3	509.3	503.6	493.0	481.0	461.9	386.1	207.6	80.0	56.0
17.5°	546.2	544.7	541.2	536.9	528.4	516.4	501.5	420.1	216.1	73.0	55.3
20°	566.7	566.0	563.2	556.8	549.7	540.5	527.0	449.1	219.6	66.6	54.5
22.5°	632.6	626.9	616.3	602.8	585.8	563.9	545.4	471.1	218.2	59.5	53.1
25°	686.4	684.3	672.9	656.7	634.0	605.7	575.2	485.9	211.1	53.8	51.7
27.5°	721.8	718.3	707.7	690.0	665.9	638.2	609.9	497.3	201.2	48.9	49.6
30°	746.6	744.5	733.9	714.0	689.2	658.8	629.7	510.0	187.7	43.9	47.5
32.5°	762.2	760.1	749.5	731.7	707.7	675.8	642.5	522.8	171.4	39.7	45.3
35°	770.7	768.6	756.5	741.0	718.3	687.1	651.7	529.2	151.6	36.1	43.2
37.5°	781.3	777.1	760.8	741.7	719.0	690.0	654.5	528.4	131.8	33.3	41.8
40°	799.0	787.7	764.3	738.8	715.5	686.4	652.4	522.8	109.8	31.2	40.4
42.5°	816.0	799.7	765.0	734.6	708.4	680.0	644.6	510.0	85.7	29.8	39.7
45°	821.7	797.6	755.1	724.7	699.9	670.8	634.0	483.1	58.1	28.3	38.3
47.5°	784.2	766.5	731.0	708.4	685.0	656.7	618.4	454.8	33.3	26.9	36.8
50°	715.5	704.1	684.3	670.1	657.4	637.5	600.0	413.0	19.8	25.5	35.4
52.5°	651.7	648.2	634.0	622.7	615.6	606.4	572.4	348.5	16.3	24.8	34.0
55°	565.3	553.9	550.4	546.2	561.0	560.3	514.3	238.7	15.6	23.4	32.6
57.5°	354.9	359.9	378.3	412.3	452.6	476.0	474.6	127.5	14.9	22.0	30.5
60°	269.9	269.2	274.8	289.0	318.8	352.1	383.2	44.6	14.2	20.5	29.0
62.5°	80.8	82.9	99.9	146.6	175.7	216.8	197.6	10.6	13.5	18.4	26.2
65°	16.3	17.0	17.0	19.1	23.4	35.4	43.2	9.2	12.8	17.0	24.1
67.5°	7.1	7.1	7.1	7.8	7.8	9.2	7.8	8.5	11.3	14.9	21.3
70°	6.4	6.4	6.4	6.4	6.4	6.4	7.1	7.1	9.9	12.8	18.4
72.5°	5.0	5.0	5.0	5.7	5.7	5.7	5.7	6.4	8.5	10.6	15.6
75°	4.3	4.3	4.3	4.3	5.0	5.0	5.0	5.7	7.1	9.2	12.8
77.5°	3.5	3.5	3.5	3.5	3.5	4.3	4.3	4.3	5.7	7.1	10.6
80°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	3.5	4.3	5.7	7.8
82.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.8	3.5	4.3	5.7
85°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.1	2.1	2.8	3.5
87.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.4	1.4	1.4	2.1
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):

	135°	157.5°	180°
0°	103.4	103.4	103.4
2.5°	78.6	74.4	72.3
5°	64.5	60.9	60.2
7.5°	59.5	58.8	58.8
10°	58.1	58.8	59.5
12.5°	58.1	59.5	60.2
15°	58.1	59.5	60.2
17.5°	58.1	59.5	60.2
20°	57.4	59.5	60.9
22.5°	56.7	59.5	60.2
25°	56.0	59.5	60.2
27.5°	55.3	58.8	60.2
30°	54.5	58.8	60.9
32.5°	53.1	58.8	60.9
35°	52.4	58.8	60.9
37.5°	51.7	58.8	61.6
40°	51.0	58.8	61.6
42.5°	50.3	58.8	61.6
45°	49.6	58.1	61.6
47.5°	48.2	58.1	61.6
50°	47.5	57.4	60.9
52.5°	46.0	56.7	60.9
55°	44.6	55.3	58.8
57.5°	42.5	53.1	56.0
60°	39.7	50.3	53.1
62.5°	36.1	46.8	48.9
65°	33.3	42.5	45.3
67.5°	29.0	37.5	40.4
70°	25.5	32.6	35.4
72.5°	22.0	27.6	30.5
75°	18.4	22.7	24.8
77.5°	14.2	18.4	19.8
80°	11.3	14.2	15.6
82.5°	7.8	9.9	10.6
85°	5.0	6.4	7.1
87.5°	2.1	2.8	2.8
90°	0.0	0.0	0.0

(END OF REPORT)