

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: P1312959

Luminaire Tested: P3SQAS02R459730DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1312959
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-84)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS02R459730DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R45 optic, 3000K CCT AND, 97CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

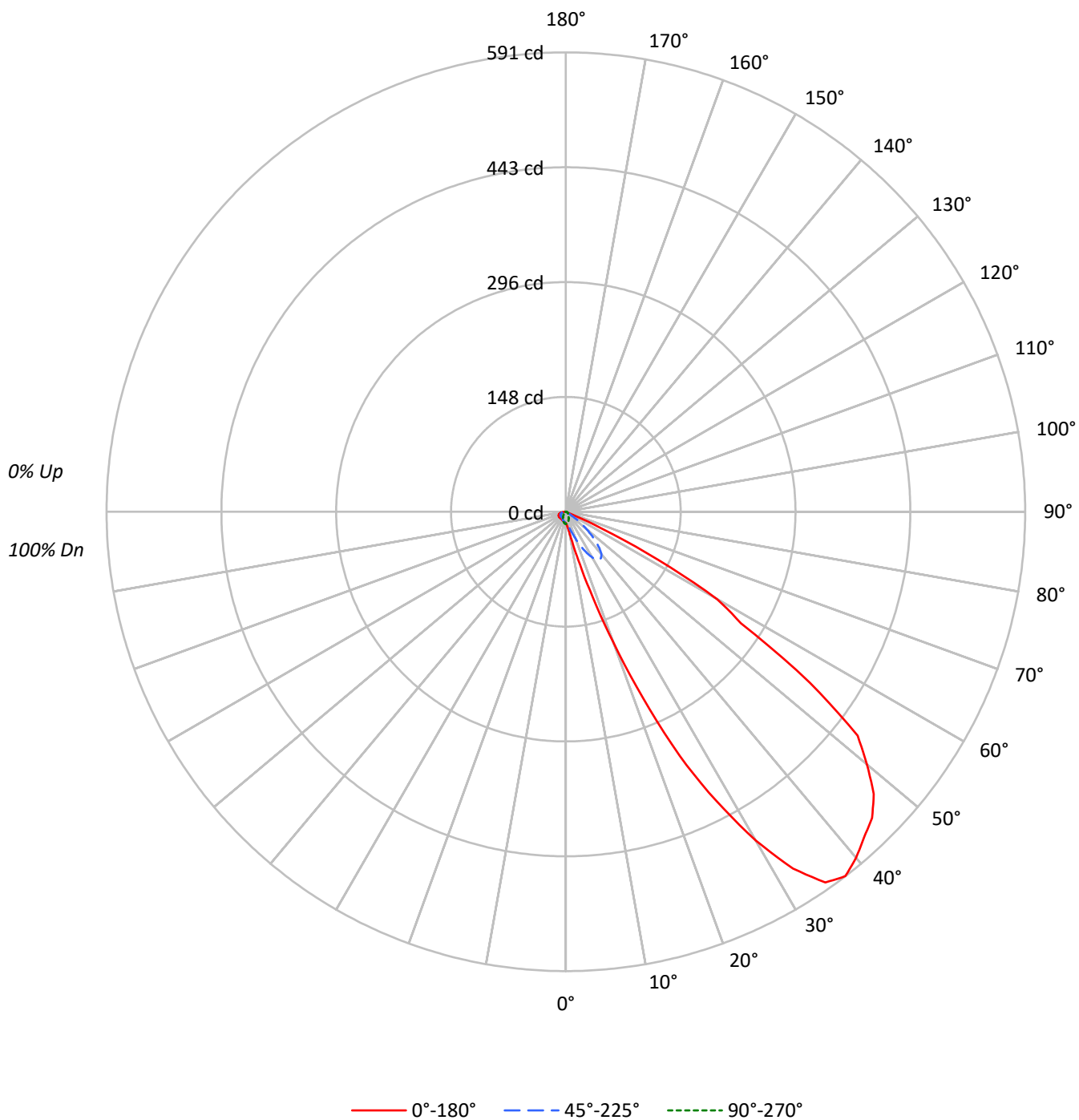
Lumens per Lamp: N/A
Luminaire Lumens: 264.0 lumens
Efficiency: N/A
Efficacy: 73.3 lumens/watt
Spacing Criteria (0/90/45): 3.81 / 0.82 / 1.83
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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		96	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	66	77	70	65		74	69	64		71	67	63	61
4	83	71	62	56	81	70	62	55	67	60	55		65	59	54		63	58	53	51
5	76	63	53	47	73	61	53	46	59	52	46		57	51	45		55	50	45	43
6	69	55	46	39	67	54	46	39	52	45	39		51	44	39		49	43	38	36
7	63	49	40	34	61	48	40	33	47	39	33		45	38	33		44	37	33	31
8	58	44	35	29	56	43	35	29	42	34	29		40	33	28		39	33	28	26
9	53	39	31	25	52	39	30	25	38	30	25		36	29	25		35	29	24	22
10	49	35	27	22	48	35	27	22	34	27	21		33	26	21		32	26	21	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	2635	2635	2635	2635	2635
5°	3129	2904	2610	2420	2420
10°	5002	3393	2448	2291	2291
15°	12445	4547	2211	2140	2211
20°	32788	6800	1924	2034	2163
25°	65825	10071	1653	1900	2109
30°	97046	13483	1352	1869	2168
35°	122405	15831	1156	1829	2250
40°	130598	15985	1034	1911	2406
45°	135687	13347	950	2070	2606
50°	135466	9297	938	2224	2920
55°	115150	4114	991	2492	3213
60°	77397	827	964	2790	3686
65°	20539	367	978	3016	4197
70°	554	453	1007	3273	4733
75°	466	466	998	3460	5390
80°	397	694	1091	3670	6050
85°	395	790	1778	3952	6126

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 10°

Vertical Angle: 47.5°

Luminance: 139187 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.5	0.6
10°-20°	7.4	2.8
20°-30°	30.7	11.6
30°-40°	64.7	24.5
40°-50°	79.8	30.2
50°-60°	59.9	22.7
60°-70°	15.4	5.8
70°-80°	3.2	1.2
80°-90°	1.3	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°	39.7	15.0
0°-40°	104.4	39.5
0°-60°	244.1	92.5
0°-90°	264.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	264.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	15	15	15	15	15	
5°	18	17	15	14	14	2
15°	70	26	12	12	12	26
25°	346	53	9	10	11	161
35°	582	75	6	9	11	355
45°	557	55	4	8	11	426
55°	384	14	3	8	11	331
65°	50	1	2	7	10	73
75°	1	1	2	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°	25°	30°	45°	67.5°	90°	112.5°
0°	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3
2.5°	16.1	16.1	16.1	16.1	16.1	16.1	16.1	15.9	15.7	15.3	14.8
5°	18.1	17.9	17.9	17.9	17.7	17.5	17.5	16.8	15.9	15.1	14.4
7.5°	21.4	21.4	21.2	20.7	20.5	20.1	19.6	17.9	15.9	14.6	13.7
10°	28.6	28.1	27.5	27.0	26.0	24.4	23.3	19.4	15.7	14.0	13.3
12.5°	42.8	43.6	41.4	39.3	36.2	33.4	29.9	22.0	15.7	13.3	12.7
15°	69.8	71.3	67.2	62.8	55.4	48.4	41.9	25.5	15.3	12.4	11.8
17.5°	114.1	116.0	109.1	98.8	87.3	73.3	61.3	30.3	14.8	11.6	11.1
20°	178.9	178.7	165.1	152.3	130.0	109.5	87.0	37.1	14.2	10.5	10.5
22.5°	258.5	259.4	242.8	219.7	188.0	155.1	119.3	44.9	13.3	9.6	9.8
25°	346.4	339.0	319.4	291.2	250.9	205.3	158.1	53.0	12.4	8.7	9.2
27.5°	419.7	412.5	390.0	356.7	313.2	259.1	197.6	61.1	11.3	7.9	8.5
30°	488.0	478.8	451.8	414.0	362.3	303.9	234.7	67.8	10.0	6.8	7.9
32.5°	544.3	536.0	505.2	461.4	405.1	342.3	266.1	73.1	8.7	6.1	7.4
35°	582.2	573.7	545.3	497.1	435.8	370.2	291.6	75.3	7.6	5.5	7.2
37.5°	590.9	586.4	566.1	520.9	457.0	388.1	308.0	74.6	6.3	5.0	6.8
40°	580.9	582.0	572.4	534.9	468.3	395.7	314.8	71.1	5.2	4.6	6.5
42.5°	568.0	570.9	570.2	540.5	473.1	396.1	311.9	64.1	4.1	4.1	6.3
45°	557.1	560.0	563.9	538.1	469.9	390.5	303.0	54.8	3.1	3.9	6.3
47.5°	537.3	540.3	546.0	518.9	453.3	375.8	286.8	44.5	2.2	3.7	6.1
50°	505.6	507.2	505.6	475.3	421.4	352.3	260.7	34.7	1.5	3.5	6.1
52.5°	473.1	470.1	457.4	419.0	370.8	315.0	227.7	24.6	1.1	3.3	5.9
55°	383.5	378.7	369.3	345.7	318.3	269.2	184.1	13.7	1.1	3.3	5.7
57.5°	267.2	269.8	273.1	268.3	255.7	212.0	139.8	6.1	1.1	3.1	5.7
60°	224.7	222.5	222.7	219.7	198.7	154.7	96.2	2.4	1.1	2.8	5.5
62.5°	134.2	135.7	138.5	139.2	118.4	86.4	50.4	1.1	1.1	2.6	5.2
65°	50.4	52.8	46.2	40.1	31.8	23.3	11.8	0.9	1.3	2.4	4.8
67.5°	1.5	1.7	2.2	2.0	2.0	1.7	1.3	0.9	1.3	2.2	4.6
70°	1.1	1.1	1.1	1.1	1.1	0.9	0.9	0.9	1.1	2.0	4.1
72.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.1	1.7	3.7
75°	0.7	0.9	0.7	0.7	0.7	0.7	0.7	0.7	1.1	1.5	3.1
77.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.9	1.3	2.6
80°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.7	0.9	1.1	2.2
82.5°	0.4	0.4	0.4	0.2	0.4	0.4	0.4	0.4	0.9	0.9	1.7
85°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.7	0.9	1.1
87.5°	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.4	0.7	0.7	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):

	135°	157.5°	180°
0°	15.3	15.3	15.3
2.5°	14.4	14.4	14.4
5°	14.0	14.0	14.0
7.5°	13.5	13.5	13.5
10°	13.1	13.1	13.1
12.5°	12.7	12.7	12.9
15°	12.0	12.4	12.4
17.5°	11.6	12.0	12.2
20°	11.1	11.6	11.8
22.5°	10.5	11.1	11.6
25°	10.0	10.9	11.1
27.5°	9.6	10.7	11.1
30°	9.4	10.5	10.9
32.5°	8.9	10.3	10.7
35°	8.7	10.3	10.7
37.5°	8.7	10.0	10.7
40°	8.5	10.0	10.7
42.5°	8.5	10.0	10.7
45°	8.5	10.0	10.7
47.5°	8.3	10.0	10.9
50°	8.3	10.3	10.9
52.5°	8.3	10.3	10.9
55°	8.3	10.3	10.7
57.5°	8.1	10.0	10.7
60°	8.1	10.0	10.7
62.5°	7.6	9.8	10.5
65°	7.4	9.6	10.3
67.5°	7.0	9.4	9.8
70°	6.5	8.7	9.4
72.5°	5.9	8.3	8.9
75°	5.2	7.6	8.1
77.5°	4.6	6.8	7.2
80°	3.7	5.7	6.1
82.5°	2.8	4.4	4.6
85°	2.0	2.8	3.1
87.5°	0.9	1.3	1.5
90°	0.0	0.0	0.0

(END OF REPORT)