

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: P1313155

Luminaire Tested: P3SQAS05R609730DE010 E3SQCA451MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1313155
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-81)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS05R609730DE010 E3SQCA451MW
Description: 3in Adjustable LED luminaire with, R60 optic, 3000K CCT AND, 97CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

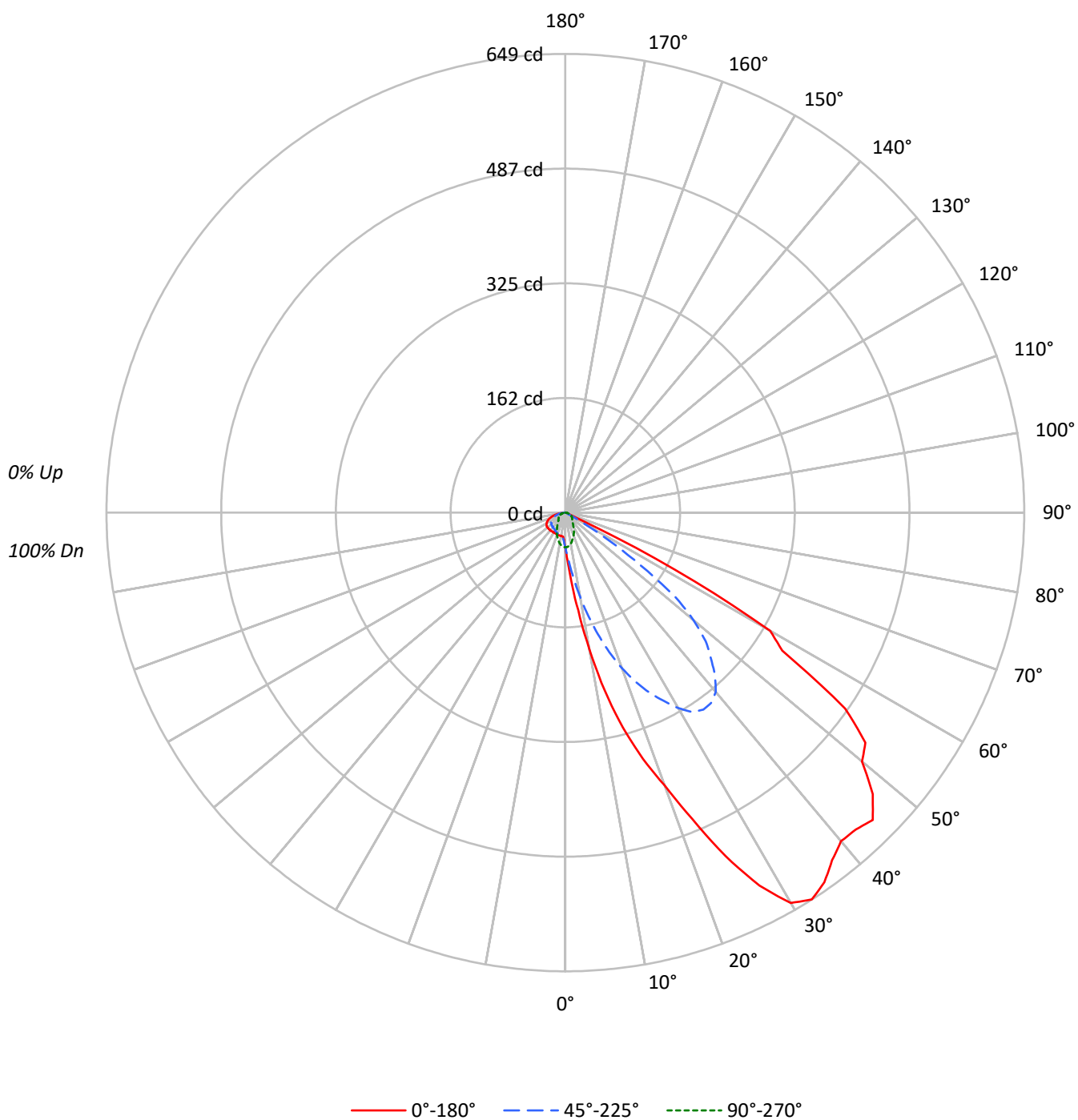
Lumens per Lamp: N/A
Luminaire Lumens: 493.9 lumens
Efficiency: N/A
Efficacy: 68.6 lumens/watt
Spacing Criteria (0/90/45): 3.39 / 0.84 / 2.07
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 7.2
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	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	91	86	81	88	83	79	85	81	77	82	79	76	74		
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62		
4	84	72	64	58	82	71	63	57	69	62	56	66	60	56	64	59	55	53		
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45		
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39		
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33		
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29		
9	55	42	33	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25		
10	52	38	30	25	50	38	30	25	37	29	24	36	29	24	35	29	24	22		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	8422	8422	8422	8422	8422
5°	16614	12966	8298	6293	5982
10°	34311	21125	7782	5736	5806
15°	56128	31701	6971	5759	5919
20°	75308	42960	6250	5755	6011
25°	101892	53340	5454	5720	6233
30°	126817	63498	4554	5707	6523
35°	134262	71567	3869	5845	6791
40°	136399	74416	3530	6048	7374
45°	149740	70876	3385	6454	7989
50°	146773	63526	3376	6859	8788
55°	145086	38974	3363	7416	9698
60°	115079	9266	3548	7888	10506
65°	7335	1630	3464	8069	11329
70°	1561	1813	3374	8359	11984
75°	1464	1797	2994	8052	12244
80°	1289	1785	3075	8034	11604
85°	790	1778	3557	7114	11461

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°

Vertical Angle: 52.5°

Luminance: 158032 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.1	1.2
10°-20°	30.8	6.2
20°-30°	71.4	14.5
30°-40°	111.0	22.5
40°-50°	126.5	25.6
50°-60°	106.6	21.6
60°-70°	30.9	6.3
70°-80°	7.9	1.6
80°-90°	2.7	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°	108.3	21.9
0°-40°	219.4	44.4
0°-60°	452.5	91.6
0°-90°	493.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	493.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	49	49	49	49	49	
5°	96	75	48	36	35	12
15°	315	178	39	32	33	91
25°	536	281	29	30	33	249
35°	639	340	18	28	32	397
45°	615	291	14	26	33	462
55°	483	130	11	25	32	407
65°	18	4	8	20	28	89
75°	2	3	4	12	18	2
85°	0	1	2	4	6	1
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°	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9
2.5°	66.0	65.6	65.6	65.1	64.7	64.2	62.9	62.4	59.7	54.3	48.9
5°	96.1	95.6	94.3	93.9	91.6	88.5	85.3	82.2	75.0	59.7	48.0
7.5°	139.2	140.1	139.2	134.3	131.1	126.2	116.8	110.0	95.6	65.1	46.3
10°	196.2	196.2	194.9	187.3	180.5	171.1	159.0	147.3	120.8	70.1	44.5
12.5°	258.2	259.6	252.8	246.5	234.4	222.7	206.1	188.6	149.5	74.1	42.2
15°	314.8	313.9	307.2	299.1	286.5	270.3	252.8	230.4	177.8	76.8	39.1
17.5°	365.1	363.3	357.4	348.5	333.2	315.2	292.8	268.5	207.0	79.0	36.8
20°	410.9	404.6	397.9	388.4	373.6	354.8	331.4	304.0	234.4	79.0	34.1
22.5°	468.8	462.5	453.1	438.7	419.0	395.6	368.2	337.2	258.7	77.2	31.4
25°	536.2	531.2	515.1	496.7	471.1	443.2	411.3	369.6	280.7	74.5	28.7
27.5°	595.0	589.6	573.4	546.5	515.5	482.3	448.6	405.9	300.0	69.6	25.6
30°	637.7	630.9	618.3	592.7	555.0	514.6	474.6	433.8	319.3	63.8	22.9
32.5°	648.9	648.0	638.6	619.7	586.0	541.6	494.0	449.5	334.5	56.1	20.7
35°	638.6	639.9	638.1	628.7	604.0	560.4	506.5	458.0	340.4	48.5	18.4
37.5°	619.7	621.5	624.6	626.0	610.3	571.6	513.7	461.6	339.0	40.9	17.1
40°	606.7	605.8	605.8	614.8	611.6	576.6	514.6	458.9	331.0	32.8	15.7
42.5°	608.0	598.1	591.4	605.8	610.3	574.3	508.8	451.7	313.4	25.1	14.4
45°	614.8	593.6	582.0	600.4	607.6	566.7	498.0	441.0	291.0	17.5	13.9
47.5°	589.6	575.7	573.9	599.9	602.6	553.7	481.4	423.9	269.4	12.1	13.0
50°	547.8	545.6	555.0	582.0	582.4	532.1	462.5	392.9	237.1	8.5	12.6
52.5°	534.8	536.2	544.7	558.6	545.6	495.8	428.4	366.9	196.2	6.7	12.1
55°	483.2	485.4	493.5	502.0	492.6	451.3	387.1	335.4	129.8	6.3	11.2
57.5°	363.7	369.6	384.4	392.0	392.9	367.8	350.7	289.2	73.2	6.3	10.8
60°	334.1	326.5	319.7	304.0	289.6	286.5	288.3	216.9	26.9	5.8	10.3
62.5°	174.7	171.1	181.4	188.2	189.9	199.8	186.8	114.5	5.8	5.8	9.4
65°	18.0	18.0	22.0	29.2	48.5	64.7	61.5	33.2	4.0	5.4	8.5
67.5°	5.4	5.4	5.4	6.3	8.1	8.1	6.7	4.9	4.0	4.9	7.6
70°	3.1	3.1	3.1	3.1	3.1	3.1	3.6	3.1	3.6	4.5	6.7
72.5°	2.7	2.7	2.7	2.7	3.1	3.1	3.1	3.1	3.1	4.0	5.8
75°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.7	2.7	3.1	4.5
77.5°	1.8	1.8	1.8	1.8	1.8	1.8	2.2	2.2	2.2	2.7	3.6
80°	1.3	1.3	1.3	1.3	1.3	1.8	1.8	1.8	1.8	2.2	3.1
82.5°	0.9	0.9	0.9	0.9	1.3	1.3	1.3	1.3	1.3	1.8	2.2
85°	0.4	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.3	1.8
87.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.9	0.9	1.3
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°	48.9	48.9	48.9	48.9
2.5°	44.5	41.3	39.5	38.6
5°	40.4	36.4	35.0	34.6
7.5°	36.8	34.1	33.7	33.7
10°	34.6	32.8	33.2	33.2
12.5°	33.2	32.8	33.2	33.7
15°	31.9	32.3	33.2	33.2
17.5°	31.0	31.9	32.8	33.2
20°	29.6	31.4	32.8	32.8
22.5°	28.7	31.0	32.3	32.8
25°	27.8	30.1	31.9	32.8
27.5°	26.5	29.6	31.9	32.3
30°	25.1	28.7	31.4	32.8
32.5°	23.8	28.3	31.4	32.3
35°	22.9	27.8	31.4	32.3
37.5°	22.0	27.4	31.4	32.8
40°	21.6	26.9	31.0	32.8
42.5°	20.7	26.9	31.0	32.8
45°	20.2	26.5	31.0	32.8
47.5°	19.8	26.0	31.0	32.8
50°	18.9	25.6	30.5	32.8
52.5°	18.4	25.1	30.5	32.8
55°	17.5	24.7	30.1	32.3
57.5°	17.1	23.8	29.6	31.4
60°	16.2	22.9	28.7	30.5
62.5°	14.8	21.6	27.4	29.6
65°	13.5	19.8	26.0	27.8
67.5°	12.1	18.4	24.2	26.0
70°	10.8	16.6	22.0	23.8
72.5°	9.4	14.4	19.8	21.1
75°	8.1	12.1	16.6	18.4
77.5°	6.3	9.9	13.9	15.3
80°	4.9	8.1	10.8	11.7
82.5°	4.0	5.8	8.1	8.5
85°	2.7	3.6	4.9	5.8
87.5°	1.3	1.8	2.2	2.7
90°	0.0	0.0	0.0	0.0

(END OF REPORT)