

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: P1312162

Luminaire Tested: P3SQAS05R509727DE010 E3SQCA301MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1312162
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-65)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS05R509727DE010 E3SQCA301MW
Description: 3in Adjustable LED luminaire with, R50 optic, 2700K CCT AND, 97CRI , E3SQCA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

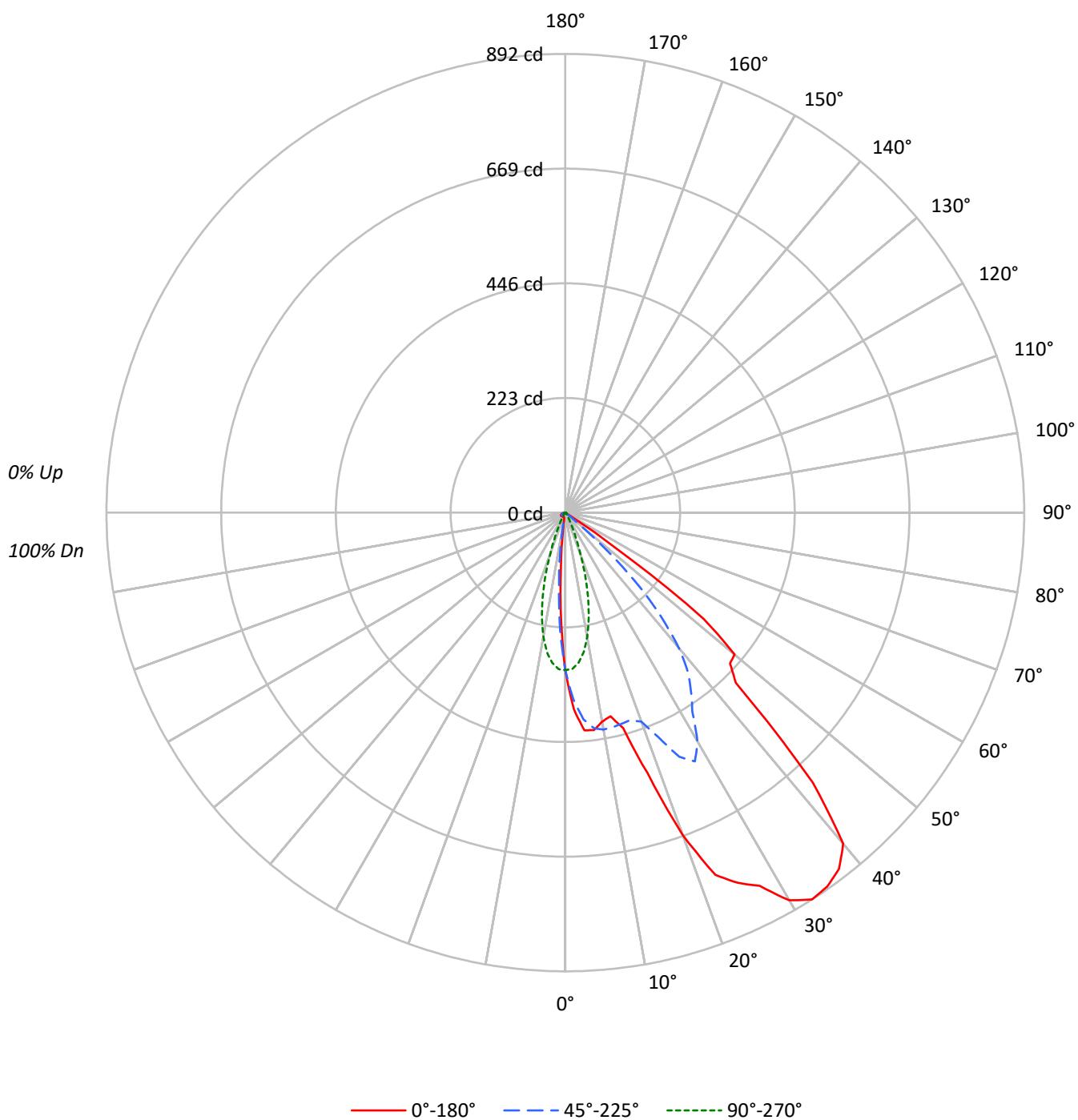
Lumens per Lamp: N/A
Luminaire Lumens: 476.0 lumens
Efficiency: N/A
Efficacy: 66.1 lumens/watt
Spacing Criteria (0/90/45): 1.8 / 0.54 / 1.2
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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
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	112	109	106	103	110	107	104	101	102	100	98	99	97	95	95	94	93	91	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73	73
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65	65
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58	58
6	79	68	61	56	78	68	61	55	66	60	55	64	59	55	63	58	54	53	53
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47	47
8	69	58	51	45	68	57	50	45	56	50	45	55	49	45	54	49	45	43	43
9	65	53	46	41	64	53	46	41	52	46	41	51	45	41	50	45	41	39	39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	37	46	41	37	36	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	52700	52700	52700	52700	52700
5°	73492	69723	50654	24359	15801
10°	72138	74918	42810	5124	2203
15°	77364	75723	30275	1801	1712
20°	122171	79285	15982	1540	1613
25°	150957	99574	6366	1425	1596
30°	173073	102117	2585	1412	1670
35°	186592	89627	1135	1493	1850
40°	188872	77181	854	1686	2068
45°	114156	50027	828	1827	2338
50°	115023	8654	911	2143	2706
55°	33990	510	1021	2402	3033
60°	586	586	999	2583	3307
65°	530	530	1019	2730	3586
70°	655	655	1057	2971	4028
75°	532	532	1131	3061	4192
80°	397	793	1289	2876	4562
85°	790	1581	1581	3359	4150

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°

Vertical Angle: 45°

Luminance: 130377 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	24.8	5.2
10°-20°	61.4	12.9
20°-30°	115.1	24.2
30°-40°	137.6	28.9
40°-50°	98.6	20.7
50°-60°	30.4	6.4
60°-70°	4.0	0.8
70°-80°	2.9	0.6
80°-90°	1.2	0.2
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°	201.3	42.3
0°-40°	338.9	71.2
0°-60°	468.0	98.3
0°-90°	476.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	476.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	306	306	306	306	306	
5°	425	403	293	141	91	39
15°	434	425	170	10	10	139
25°	794	524	34	8	8	366
35°	888	426	5	7	9	551
45°	469	205	3	8	10	430
55°	113	2	3	8	10	146
65°	1	1	2	7	9	1
75°	1	1	2	5	6	1
85°	0	1	1	2	2	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	306.0	306.0	306.0	306.0	306.0	306.0	306.0	306.0	306.0	306.0	306.0
2.5°	382.7	383.6	384.8	381.5	379.4	377.7	374.8	373.9	366.8	363.9	360.9
5°	425.1	424.2	425.1	423.8	423.0	420.5	418.0	413.8	409.2	403.3	396.6
7.5°	426.3	425.5	427.2	427.2	428.9	428.9	428.9	429.3	426.8	422.6	416.7
10°	412.5	412.5	414.2	413.3	416.3	417.5	420.5	425.5	428.0	428.4	426.8
12.5°	405.4	405.4	405.8	404.1	405.0	406.2	409.6	415.4	421.3	427.2	430.5
15°	433.9	434.7	428.9	420.5	414.2	407.5	405.4	409.2	415.4	424.7	432.2
17.5°	530.7	532.0	525.7	505.6	486.3	458.6	433.9	421.7	415.0	422.6	432.6
20°	666.6	661.9	651.0	629.7	601.6	558.8	520.2	481.3	443.9	432.6	436.0
22.5°	762.6	760.9	752.1	728.2	703.9	664.0	615.0	560.5	506.4	472.0	454.0
25°	794.4	793.2	785.2	770.9	757.5	727.3	683.3	628.4	571.8	524.0	478.7
27.5°	818.3	816.6	804.1	788.1	774.3	743.7	703.4	661.9	610.0	545.4	475.8
30°	870.3	865.7	848.1	819.6	793.2	750.8	706.4	654.8	584.4	513.5	445.6
32.5°	892.1	889.6	874.5	851.4	822.5	767.2	699.7	613.3	520.7	459.5	410.0
35°	887.5	883.7	868.2	841.8	806.6	753.3	663.2	544.6	469.1	426.3	370.6
37.5°	873.6	868.2	849.8	818.7	776.0	706.4	588.6	488.8	440.2	392.0	316.9
40°	840.1	831.3	809.9	777.6	734.9	643.5	520.7	455.3	410.0	343.3	257.0
42.5°	711.8	707.2	717.7	712.2	674.5	566.8	472.5	424.7	362.2	277.5	186.1
45°	468.7	476.6	495.5	527.8	535.3	487.5	433.0	374.4	298.1	205.4	107.3
47.5°	433.9	432.2	436.8	443.1	444.4	424.2	374.8	309.4	221.3	117.4	29.8
50°	429.3	426.8	423.0	415.4	399.5	360.5	304.4	225.5	127.9	32.3	2.1
52.5°	339.1	336.6	336.6	325.7	305.2	267.5	210.0	124.1	35.6	2.1	1.7
55°	113.2	120.7	119.5	119.1	128.3	118.2	90.6	31.9	2.9	1.7	1.7
57.5°	2.1	2.1	2.1	3.8	5.9	8.4	5.0	2.5	1.7	1.7	1.7
60°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
62.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
65°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.7
67.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
70°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
72.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.3	1.3	1.3
75°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.3
77.5°	0.4	0.4	0.4	0.4	0.8	0.8	0.8	0.8	0.8	0.8	0.8
80°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8	0.8	0.8	0.8
82.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8	0.8	0.8
85°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8	0.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.4
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):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	306.0	306.0	306.0	306.0	306.0	306.0	306.0	306.0
2.5°	354.2	348.4	337.0	304.8	269.1	228.5	200.8	197.5
5°	386.1	377.3	358.8	293.0	211.7	140.9	104.8	91.4
7.5°	407.1	395.3	372.7	273.7	154.3	74.2	39.8	31.9
10°	419.6	408.7	379.8	244.8	98.1	29.3	13.4	12.6
12.5°	426.3	415.9	382.3	210.0	55.3	13.4	10.5	10.5
15°	431.0	419.6	378.6	169.8	27.7	10.1	9.6	9.6
17.5°	433.0	419.2	367.7	127.9	14.7	9.2	9.2	9.2
20°	434.3	414.6	347.5	87.2	10.1	8.4	8.8	8.8
22.5°	435.6	403.3	321.1	55.3	8.0	8.0	8.4	8.4
25°	433.0	383.6	283.8	33.5	7.1	7.5	8.0	8.4
27.5°	415.0	353.8	238.5	20.5	6.3	7.1	8.0	8.4
30°	384.0	310.2	186.1	13.0	5.9	7.1	8.0	8.4
32.5°	343.8	260.3	132.9	8.0	5.9	7.1	8.0	8.4
35°	289.7	199.1	86.4	5.4	5.9	7.1	8.4	8.8
37.5°	228.9	139.2	46.5	4.2	5.9	7.1	8.4	8.8
40°	164.8	83.4	16.8	3.8	5.4	7.5	8.8	9.2
42.5°	96.4	31.0	2.9	3.4	5.4	7.5	8.8	9.2
45°	27.7	3.4	1.7	3.4	5.4	7.5	9.2	9.6
47.5°	2.1	1.3	1.7	3.4	5.4	7.5	9.2	10.1
50°	1.3	1.3	1.3	3.4	5.4	8.0	9.6	10.1
52.5°	1.7	1.7	1.7	3.4	5.4	8.0	9.6	10.1
55°	1.7	1.7	1.7	3.4	5.4	8.0	9.6	10.1
57.5°	1.7	1.7	1.7	3.4	5.4	7.5	9.6	10.1
60°	1.7	1.7	1.7	2.9	5.0	7.5	9.2	9.6
62.5°	1.7	1.7	1.7	2.9	5.0	7.1	9.2	9.2
65°	1.7	1.7	1.7	2.5	4.6	6.7	8.4	8.8
67.5°	1.7	1.7	1.7	2.5	4.2	6.3	8.0	8.4
70°	1.3	1.7	1.7	2.1	3.8	5.9	7.5	8.0
72.5°	1.3	1.3	1.7	2.1	3.4	5.0	6.7	7.1
75°	1.3	1.3	1.3	1.7	2.9	4.6	5.9	6.3
77.5°	1.3	1.3	1.3	1.7	2.5	3.8	5.4	5.4
80°	0.8	1.3	1.3	1.3	2.1	2.9	4.2	4.6
82.5°	0.8	0.8	0.8	1.3	1.7	2.5	3.4	3.4
85°	0.8	0.8	0.8	0.8	1.3	1.7	2.1	2.1
87.5°	0.4	0.8	0.8	0.8	0.8	0.8	0.8	0.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)