

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: P1307731

Luminaire Tested: P3SQAS05R509030DE010 E3SQCA301MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1307731
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: P3SQAS05R509030DE010 E3SQCA301MW
Description: 3in Adjustable LED luminaire with, R50 optic, 3000K CCT AND, 90CRI , E3SQCA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

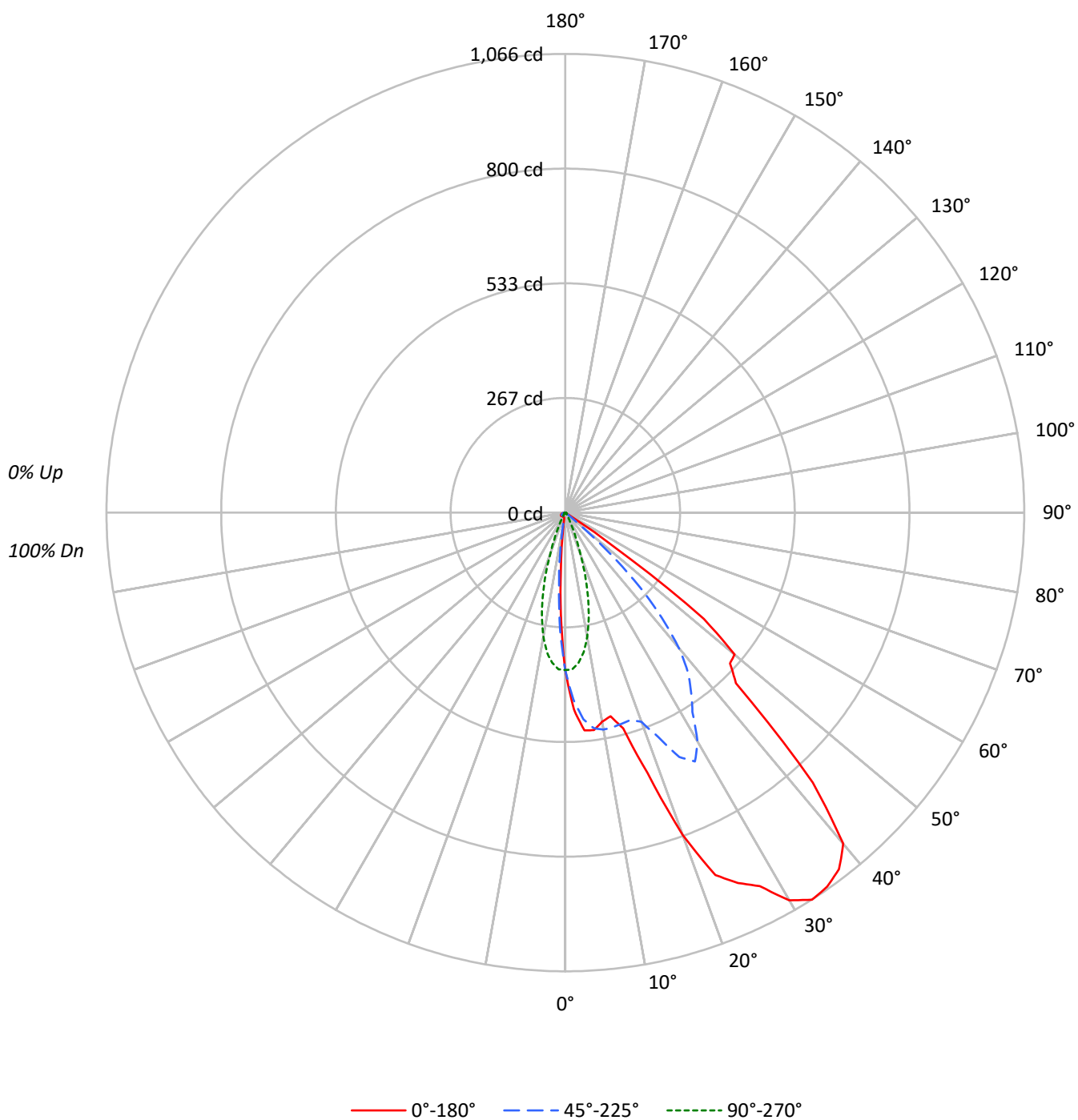
Lumens per Lamp: N/A
Luminaire Lumens: 568.9 lumens
Efficiency: N/A
Efficacy: 79.0 lumens/watt
Spacing Criteria (0/90/45): 1.8 / 0.54 / 1.2
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	112	109	106	103	110	107	104	101	102	100	98	99	97	95	95	94	93	91		
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81		
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73		
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65		
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58		
6	79	68	61	56	78	68	61	55	66	60	55	64	59	55	63	58	54	53		
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47		
8	69	58	51	45	68	57	50	45	56	50	45	55	49	45	54	49	45	43		
9	65	53	46	41	64	53	46	41	52	46	41	51	45	41	50	45	41	39		
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	46	41	37	36		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	62999	62999	62999	62999	62999
5°	87841	83346	60560	29113	18879
10°	86233	89556	51187	6138	2623
15°	92483	90504	36194	2140	2050
20°	146034	94790	19097	1833	1924
25°	180449	119033	7620	1710	1900
30°	206880	122084	3082	1690	1989
35°	223049	107141	1367	1787	2208
40°	225765	92266	1012	2023	2473
45°	136466	59794	974	2192	2801
50°	137475	10342	1072	2545	3215
55°	40625	601	1201	2852	3603
60°	689	689	1206	3100	3961
65°	611	611	1223	3260	4279
70°	755	755	1259	3525	4784
75°	665	665	1331	3660	4991
80°	496	992	1488	3471	5455
85°	988	1976	1976	3952	4940

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°

Vertical Angle: 45°

Luminance: 155854 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.6	5.2
10°-20°	73.4	12.9
20°-30°	137.6	24.2
30°-40°	164.5	28.9
40°-50°	117.9	20.7
50°-60°	36.3	6.4
60°-70°	4.7	0.8
70°-80°	3.4	0.6
80°-90°	1.4	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°	240.6	42.3
0°-40°	405.1	71.2
0°-60°	559.4	98.3
0°-90°	568.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	568.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	366	366	366	366	366	
5°	508	482	350	168	109	47
15°	519	508	203	12	12	166
25°	950	626	40	9	10	438
35°	1061	510	6	8	10	658
45°	560	246	4	9	12	515
55°	135	2	4	10	12	174
65°	2	2	3	8	10	2
75°	1	1	2	6	8	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°	365.8	365.8	365.8	365.8	365.8	365.8	365.8	365.8	365.8	365.8	365.8
2.5°	457.5	458.5	460.0	456.0	453.5	451.5	448.0	447.0	438.5	435.0	431.5
5°	508.1	507.1	508.1	506.6	505.6	502.6	499.6	494.6	489.1	482.1	474.1
7.5°	509.6	508.6	510.6	510.6	512.6	512.6	512.6	513.1	510.1	505.1	498.1
10°	493.1	493.1	495.1	494.1	497.6	499.1	502.6	508.6	511.6	512.1	510.1
12.5°	484.6	484.6	485.1	483.1	484.1	485.6	489.6	496.6	503.6	510.6	514.7
15°	518.7	519.7	512.6	502.6	495.1	487.1	484.6	489.1	496.6	507.6	516.7
17.5°	634.4	635.9	628.4	604.4	581.3	548.2	518.7	504.1	496.1	505.1	517.2
20°	796.8	791.3	778.2	752.7	719.1	668.0	621.9	575.3	530.7	517.2	521.2
22.5°	911.5	909.5	899.0	870.4	841.4	793.8	735.1	670.0	605.4	564.3	542.7
25°	949.6	948.1	938.6	921.6	905.5	869.4	816.8	751.2	683.5	626.4	572.3
27.5°	978.2	976.2	961.2	942.1	925.6	889.0	840.9	791.3	729.1	652.0	568.8
30°	1040.3	1034.8	1013.8	979.7	948.1	897.5	844.4	782.8	698.6	613.9	532.7
32.5°	1066.4	1063.4	1045.3	1017.8	983.2	917.1	836.4	733.1	622.4	549.2	490.1
35°	1060.9	1056.4	1037.8	1006.3	964.2	900.5	792.8	651.0	560.8	509.6	443.0
37.5°	1044.3	1037.8	1015.8	978.7	927.6	844.4	703.6	584.3	526.2	468.5	378.8
40°	1004.2	993.7	968.2	929.6	878.5	769.2	622.4	544.2	490.1	410.4	307.2
42.5°	850.9	845.4	857.9	851.4	806.3	677.5	564.8	507.6	433.0	331.7	222.5
45°	560.3	569.8	592.3	630.9	639.9	582.8	517.7	447.5	356.3	245.5	128.3
47.5°	518.7	516.7	522.2	529.7	531.2	507.1	448.0	369.8	264.6	140.3	35.6
50°	513.1	510.1	505.6	496.6	477.6	431.0	363.8	269.6	152.8	38.6	2.5
52.5°	405.4	402.4	402.4	389.4	364.8	319.7	251.1	148.3	42.6	2.5	2.0
55°	135.3	144.3	142.8	142.3	153.3	141.3	108.2	38.1	3.5	2.0	2.0
57.5°	2.5	2.5	2.5	4.5	7.0	10.0	6.0	3.0	2.0	2.0	2.0
60°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
62.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
65°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.0
67.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
70°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
72.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.5	1.5	1.5
75°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.5
77.5°	0.5	0.5	0.5	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0
80°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.0	1.0	1.0
82.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.0	1.0
85°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.5
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°	365.8	365.8	365.8	365.8	365.8	365.8	365.8	365.8
2.5°	423.4	416.4	402.9	364.3	321.7	273.1	240.0	236.0
5°	461.5	451.0	429.0	350.3	253.1	168.4	125.3	109.2
7.5°	486.6	472.6	445.5	327.2	184.4	88.7	47.6	38.1
10°	501.6	488.6	454.0	292.7	117.3	35.1	16.0	15.0
12.5°	509.6	497.1	457.0	251.1	66.1	16.0	12.5	12.5
15°	515.2	501.6	452.5	203.0	33.1	12.0	11.5	11.5
17.5°	517.7	501.1	439.5	152.8	17.5	11.0	11.0	11.0
20°	519.2	495.6	415.4	104.2	12.0	10.0	10.5	10.5
22.5°	520.7	482.1	383.9	66.1	9.5	9.5	10.0	10.0
25°	517.7	458.5	339.3	40.1	8.5	9.0	9.5	10.0
27.5°	496.1	422.9	285.1	24.6	7.5	8.5	9.5	10.0
30°	459.0	370.8	222.5	15.5	7.0	8.5	9.5	10.0
32.5°	410.9	311.2	158.9	9.5	7.0	8.5	9.5	10.0
35°	346.3	238.0	103.2	6.5	7.0	8.5	10.0	10.5
37.5°	273.6	166.4	55.6	5.0	7.0	8.5	10.0	10.5
40°	196.9	99.7	20.0	4.5	6.5	9.0	10.5	11.0
42.5°	115.3	37.1	3.5	4.0	6.5	9.0	10.5	11.0
45°	33.1	4.0	2.0	4.0	6.5	9.0	11.0	11.5
47.5°	2.5	1.5	2.0	4.0	6.5	9.0	11.0	12.0
50°	1.5	1.5	1.5	4.0	6.5	9.5	11.5	12.0
52.5°	2.0	2.0	2.0	4.0	6.5	9.5	11.5	12.0
55°	2.0	2.0	2.0	4.0	6.5	9.5	11.5	12.0
57.5°	2.0	2.0	2.0	4.0	6.5	9.0	11.5	12.0
60°	2.0	2.0	2.0	3.5	6.0	9.0	11.0	11.5
62.5°	2.0	2.0	2.0	3.5	6.0	8.5	11.0	11.0
65°	2.0	2.0	2.0	3.0	5.5	8.0	10.0	10.5
67.5°	2.0	2.0	2.0	3.0	5.0	7.5	9.5	10.0
70°	1.5	2.0	2.0	2.5	4.5	7.0	9.0	9.5
72.5°	1.5	1.5	2.0	2.5	4.0	6.0	8.0	8.5
75°	1.5	1.5	1.5	2.0	3.5	5.5	7.0	7.5
77.5°	1.5	1.5	1.5	2.0	3.0	4.5	6.5	6.5
80°	1.0	1.5	1.5	1.5	2.5	3.5	5.0	5.5
82.5°	1.0	1.0	1.0	1.5	2.0	3.0	4.0	4.0
85°	1.0	1.0	1.0	1.0	1.5	2.0	2.5	2.5
87.5°	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)