

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: P1308849

Luminaire Tested: P3SQAS05R509035DE010 E3SQCA301MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1308849
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: P3SQAS05R509035DE010 E3SQCA301MW
Description: 3in Adjustable LED luminaire with, R50 optic, 3500K CCT AND, 90CRI , E3SQCA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

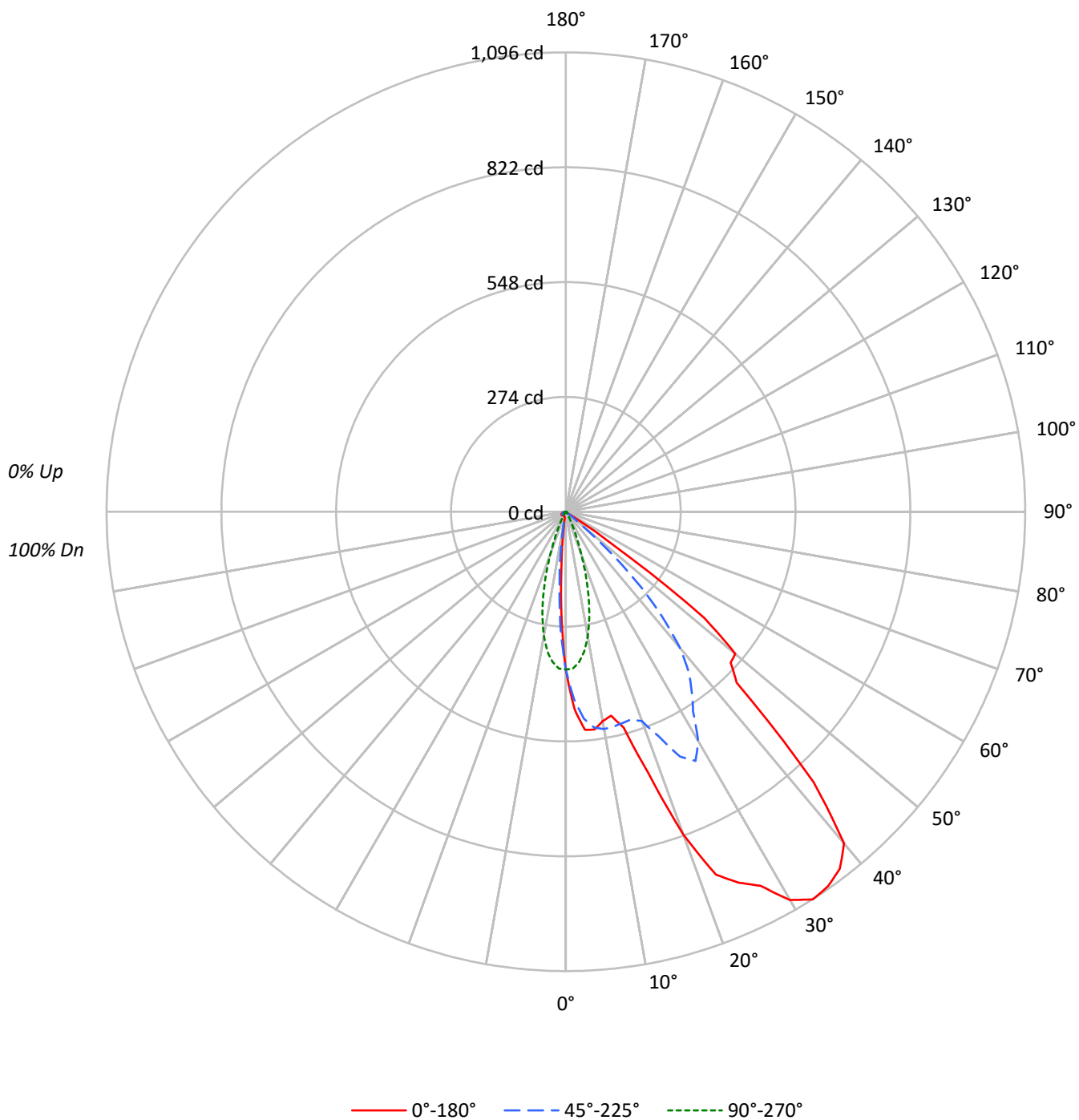
Lumens per Lamp: N/A
Luminaire Lumens: 585.0 lumens
Efficiency: N/A
Efficacy: 81.2 lumens/watt
Spacing Criteria (0/90/45): 1.8 / 0.54 / 1.2
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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			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	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°	64773	64773	64773	64773	64773
5°	90313	85680	62254	29926	19414
10°	88664	92074	52621	6313	2711
15°	95068	93054	37211	2211	2104
20°	150139	97448	19647	1888	1979
25°	185523	122377	7829	1767	1957
30°	212707	125504	3182	1750	2048
35°	229314	110168	1409	1850	2271
40°	232127	94874	1034	2091	2540
45°	140290	61499	999	2265	2874
50°	141360	10637	1099	2626	3322
55°	41766	631	1231	2943	3723
60°	723	723	1240	3203	4064
65°	611	611	1263	3342	4401
70°	755	755	1309	3626	4935
75°	665	665	1397	3793	5124
80°	496	992	1488	3570	5653
85°	988	1976	1976	4150	5138

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°

Vertical Angle: 45°

Luminance: 160238 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.4	5.2
10°-20°	75.5	12.9
20°-30°	141.5	24.2
30°-40°	169.1	28.9
40°-50°	121.2	20.7
50°-60°	37.4	6.4
60°-70°	4.9	0.8
70°-80°	3.5	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°	247.4	42.3
0°-40°	416.5	71.2
0°-60°	575.1	98.3
0°-90°	585.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	585.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	376	376	376	376	376	
5°	522	496	360	173	112	49
15°	533	522	209	12	12	171
25°	976	644	41	9	10	450
35°	1091	524	7	9	11	677
45°	576	252	4	9	12	529
55°	139	2	4	10	12	179
65°	2	2	3	8	11	2
75°	1	1	2	6	8	1
85°	0	1	1	2	3	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°	376.1	376.1	376.1	376.1	376.1	376.1	376.1	376.1	376.1	376.1	376.1
2.5°	470.4	471.4	473.0	468.8	466.3	464.2	460.6	459.6	450.8	447.2	443.6
5°	522.4	521.4	522.4	520.9	519.8	516.8	513.7	508.5	502.8	495.6	487.4
7.5°	524.0	522.9	525.0	525.0	527.1	527.1	527.1	527.6	524.5	519.3	512.1
10°	507.0	507.0	509.0	508.0	511.6	513.2	516.8	522.9	526.0	526.5	524.5
12.5°	498.2	498.2	498.7	496.7	497.7	499.2	503.4	510.6	517.8	525.0	529.1
15°	533.2	534.3	527.1	516.8	509.0	500.8	498.2	502.8	510.6	521.9	531.2
17.5°	652.3	653.8	646.1	621.3	597.6	563.6	533.2	518.3	510.1	519.3	531.7
20°	819.2	813.5	800.1	773.8	739.3	686.8	639.4	591.5	545.6	531.7	535.8
22.5°	937.2	935.1	924.3	894.9	865.0	816.1	755.8	688.8	622.4	580.1	558.0
25°	976.3	974.8	965.0	947.5	931.0	893.9	839.8	772.3	702.7	644.0	588.4
27.5°	1005.7	1003.6	988.2	968.6	951.6	914.0	864.5	813.5	749.6	670.3	584.8
30°	1069.6	1063.9	1042.3	1007.2	974.8	922.7	868.1	804.8	718.2	631.1	547.7
32.5°	1096.4	1093.3	1074.7	1046.4	1010.8	942.8	859.9	753.8	639.9	564.7	503.9
35°	1090.7	1086.1	1067.0	1034.5	991.3	925.8	815.1	669.3	576.5	524.0	455.4
37.5°	1073.7	1067.0	1044.3	1006.2	953.7	868.1	723.4	600.7	541.0	481.7	389.5
40°	1032.5	1021.7	995.4	955.7	903.2	790.9	639.9	559.5	503.9	422.0	315.8
42.5°	874.8	869.2	882.0	875.3	829.0	696.6	580.6	521.9	445.1	341.1	228.8
45°	576.0	585.8	609.0	648.7	657.9	599.2	532.2	460.1	366.3	252.5	131.9
47.5°	533.2	531.2	536.9	544.6	546.1	521.4	460.6	380.2	272.0	144.3	36.6
50°	527.6	524.5	519.8	510.6	491.0	443.1	374.0	277.2	157.1	39.7	2.6
52.5°	416.8	413.7	413.7	400.3	375.1	328.7	258.1	152.5	43.8	2.6	2.1
55°	139.1	148.4	146.8	146.3	157.7	145.3	111.3	39.2	3.6	2.1	2.1
57.5°	2.6	2.6	2.6	4.6	7.2	10.3	6.2	3.1	2.1	2.1	2.1
60°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
62.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
65°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.1
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°	376.1	376.1	376.1	376.1	376.1	376.1	376.1	376.1
2.5°	435.4	428.1	414.2	374.6	330.8	280.8	246.8	242.7
5°	474.5	463.7	441.0	360.1	260.2	173.1	128.8	112.3
7.5°	500.3	485.8	458.0	336.4	189.6	91.2	48.9	39.2
10°	515.7	502.3	466.8	300.9	120.6	36.1	16.5	15.5
12.5°	524.0	511.1	469.9	258.1	68.0	16.5	12.9	12.9
15°	529.6	515.7	465.2	208.7	34.0	12.4	11.8	11.8
17.5°	532.2	515.2	451.8	157.1	18.0	11.3	11.3	11.3
20°	533.8	509.5	427.1	107.2	12.4	10.3	10.8	10.8
22.5°	535.3	495.6	394.7	68.0	9.8	9.8	10.3	10.3
25°	532.2	471.4	348.8	41.2	8.8	9.3	9.8	10.3
27.5°	510.1	434.8	293.2	25.2	7.7	8.8	9.8	10.3
30°	471.9	381.3	228.8	16.0	7.2	8.8	9.8	10.3
32.5°	422.5	319.9	163.3	9.8	7.2	8.8	9.8	10.3
35°	356.0	244.7	106.1	6.7	7.2	8.8	10.3	10.8
37.5°	281.3	171.1	57.2	5.2	7.2	8.8	10.3	10.8
40°	202.5	102.5	20.6	4.6	6.7	9.3	10.8	11.3
42.5°	118.5	38.1	3.6	4.1	6.7	9.3	10.8	11.3
45°	34.0	4.1	2.1	4.1	6.7	9.3	11.3	11.8
47.5°	2.6	1.5	2.1	4.1	6.7	9.3	11.3	12.4
50°	1.5	1.5	1.5	4.1	6.7	9.8	11.8	12.4
52.5°	2.1	2.1	2.1	4.1	6.7	9.8	11.8	12.4
55°	2.1	2.1	2.1	4.1	6.7	9.8	11.8	12.4
57.5°	2.1	2.1	2.1	4.1	6.7	9.3	11.8	12.4
60°	2.1	2.1	2.1	3.6	6.2	9.3	11.3	11.8
62.5°	2.1	2.1	2.1	3.6	6.2	8.8	11.3	11.3
65°	2.1	2.1	2.1	3.1	5.7	8.2	10.3	10.8
67.5°	2.1	2.1	2.1	3.1	5.2	7.7	9.8	10.3
70°	1.5	2.1	2.1	2.6	4.6	7.2	9.3	9.8
72.5°	1.5	1.5	2.1	2.6	4.1	6.2	8.2	8.8
75°	1.5	1.5	1.5	2.1	3.6	5.7	7.2	7.7
77.5°	1.5	1.5	1.5	2.1	3.1	4.6	6.7	6.7
80°	1.0	1.5	1.5	1.5	2.6	3.6	5.2	5.7
82.5°	1.0	1.0	1.0	1.5	2.1	3.1	4.1	4.1
85°	1.0	1.0	1.0	1.0	1.5	2.1	2.6	2.6
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)