

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: P1309967

Luminaire Tested: P3SQAS05R509040DE010 E3SQCA301MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1309967
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: P3SQAS05R509040DE010 E3SQCA301MW
Description: 3in Adjustable LED luminaire with, R50 optic, 4000K CCT AND, 90CRI , E3SQCA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

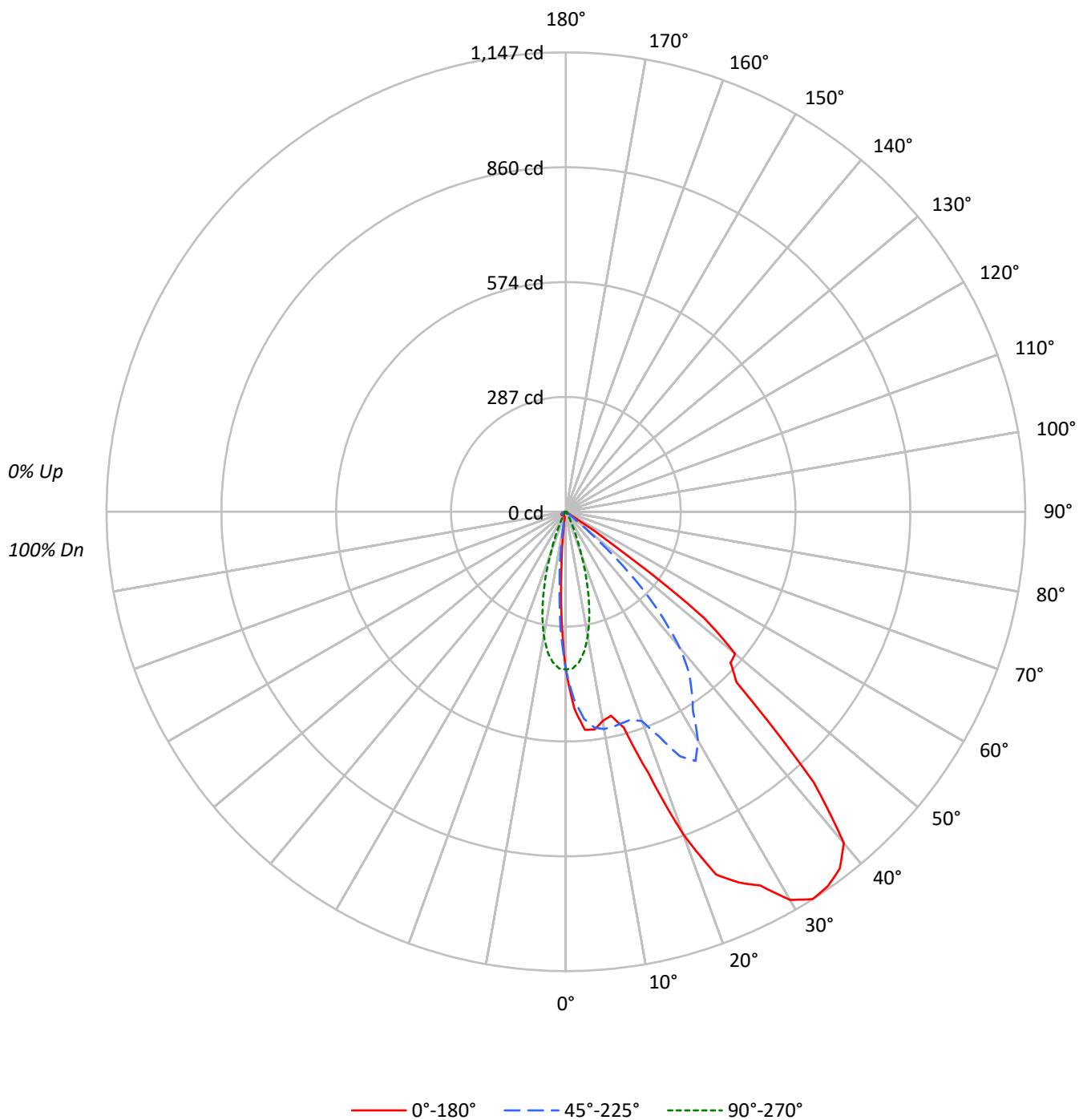
Lumens per Lamp: N/A
Luminaire Lumens: 612.0 lumens
Efficiency: N/A
Efficacy: 85.0 lumens/watt
Spacing Criteria (0/90/45): 1.8 / 0.54 / 1.2
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1309967

CATALOG NUMBER: P3SQAS05R509040DE010 E3SQCA301MW

Luminous Intensity Polar Plot



TEST NUMBER: P1309967

CATALOG NUMBER: P3SQAS05R509040DE010 E3SQCA301MW

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	50	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	42	38	60	49	42	38	48	42	38	47	42	37	46	41	37	36		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	67770	67770	67770	67770	67770
5°	94479	89639	65141	31309	20313
10°	92756	96324	55052	6593	2833
15°	99472	97351	38922	2300	2211
20°	157067	101938	20545	1979	2071
25°	194093	128021	8190	1843	2052
30°	222511	131311	3321	1830	2148
35°	239890	115256	1472	1934	2376
40°	242829	99236	1102	2181	2675
45°	146769	64324	1047	2363	3020
50°	147871	11119	1152	2733	3456
55°	43688	661	1291	3063	3873
60°	758	758	1309	3341	4271
65°	652	652	1304	3505	4605
70°	806	806	1360	3777	5136
75°	732	732	1464	3926	5390
80°	496	1091	1587	3769	5852
85°	988	2174	2174	4347	5335

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°

Vertical Angle: 45°

Luminance: 167642 cd/sqm

TEST NUMBER: P1309967

CATALOG NUMBER: P3SQAS05R509040DE010 E3SQCA301MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.8	5.2
10°-20°	79.0	12.9
20°-30°	148.0	24.2
30°-40°	176.9	28.9
40°-50°	126.8	20.7
50°-60°	39.1	6.4
60°-70°	5.1	0.8
70°-80°	3.7	0.6
80°-90°	1.5	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°	258.8	42.3
0°-40°	435.8	71.2
0°-60°	601.7	98.3
0°-90°	612.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	612.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	394	394	394	394	394	
5°	546	518	377	181	118	51
15°	558	546	218	13	12	179
25°	1021	674	43	10	11	471
35°	1141	548	7	9	11	708
45°	603	264	4	10	12	553
55°	146	2	4	10	13	187
65°	2	2	3	9	11	2
75°	1	1	2	6	8	1
85°	0	1	1	2	3	0
90°	0	0	0	0	0	

TEST NUMBER: P1309967

CATALOG NUMBER: P3SQAS05R509040DE010 E3SQCA301MW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	393.5	393.5	393.5	393.5	393.5	393.5	393.5	393.5	393.5	393.5	393.5
2.5°	492.1	493.2	494.8	490.5	487.8	485.6	481.9	480.8	471.6	467.8	464.1
5°	546.5	545.5	546.5	544.9	543.8	540.6	537.4	532.0	526.1	518.5	509.9
7.5°	548.2	547.1	549.2	549.2	551.4	551.4	551.4	551.9	548.7	543.3	535.8
10°	530.4	530.4	532.5	531.4	535.2	536.8	540.6	547.1	550.3	550.8	548.7
12.5°	521.2	521.2	521.7	519.6	520.7	522.3	526.6	534.1	541.7	549.2	553.5
15°	557.9	558.9	551.4	540.6	532.5	523.9	521.2	526.1	534.1	546.0	555.7
17.5°	682.4	684.0	675.9	650.0	625.2	589.7	557.9	542.2	533.6	543.3	556.2
20°	857.0	851.1	837.1	809.6	773.5	718.5	668.9	618.8	570.8	556.2	560.6
22.5°	980.4	978.3	967.0	936.2	905.0	853.8	790.7	720.6	651.1	606.9	583.7
25°	1021.4	1019.8	1009.5	991.2	974.0	935.2	878.6	807.9	735.2	673.7	615.5
27.5°	1052.1	1050.0	1033.8	1013.3	995.5	956.2	904.4	851.1	784.2	701.2	611.8
30°	1118.9	1113.0	1090.4	1053.7	1019.8	965.3	908.2	841.9	751.4	660.3	572.9
32.5°	1147.0	1143.7	1124.3	1094.7	1057.5	986.4	899.6	788.5	669.4	590.7	527.1
35°	1141.0	1136.2	1116.3	1082.3	1037.0	968.6	852.7	700.2	603.1	548.2	476.5
37.5°	1123.3	1116.3	1092.5	1052.7	997.7	908.2	756.7	628.5	565.9	504.0	407.5
40°	1080.1	1068.8	1041.3	999.8	944.9	827.4	669.4	585.3	527.1	441.4	330.4
42.5°	915.2	909.3	922.8	915.7	867.2	728.7	607.4	546.0	465.7	356.8	239.3
45°	602.6	612.8	637.1	678.6	688.3	626.8	556.8	481.3	383.2	264.1	138.0
47.5°	557.9	555.7	561.6	569.7	571.3	545.5	481.9	397.8	284.6	150.9	38.3
50°	551.9	548.7	543.8	534.1	513.7	463.5	391.3	290.0	164.4	41.5	2.7
52.5°	436.0	432.8	432.8	418.8	392.4	343.9	270.0	159.5	45.8	2.7	2.2
55°	145.5	155.2	153.6	153.1	164.9	152.0	116.4	41.0	3.8	2.2	2.2
57.5°	2.7	2.7	2.7	4.9	7.5	10.8	6.5	3.2	2.2	2.2	2.2
60°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
62.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
65°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	2.2
67.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
70°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
72.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.6	1.6	1.6
75°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.6
77.5°	0.5	0.5	0.5	0.5	1.1	1.1	1.1	1.1	1.1	1.1	1.1
80°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.1	1.1	1.1	1.1
82.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.1	1.1	1.1
85°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.1	1.1
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

TEST NUMBER: P1309967

CATALOG NUMBER: P3SQAS05R509040DE010 E3SQCA301MW

CANDELA DISTRIBUTION (continued):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	393.5	393.5	393.5	393.5	393.5	393.5	393.5	393.5
2.5°	455.4	447.9	433.3	391.8	346.0	293.8	258.2	253.9
5°	496.4	485.1	461.4	376.8	272.2	181.1	134.7	117.5
7.5°	523.4	508.3	479.2	352.0	198.3	95.4	51.2	41.0
10°	539.5	525.5	488.3	314.8	126.1	37.7	17.2	16.2
12.5°	548.2	534.7	491.6	270.0	71.1	17.2	13.5	13.5
15°	554.1	539.5	486.7	218.3	35.6	12.9	12.4	12.4
17.5°	556.8	539.0	472.7	164.4	18.9	11.9	11.9	11.9
20°	558.4	533.1	446.8	112.1	12.9	10.8	11.3	11.3
22.5°	560.0	518.5	412.9	71.1	10.2	10.2	10.8	10.8
25°	556.8	493.2	364.9	43.1	9.2	9.7	10.2	10.8
27.5°	533.6	454.9	306.7	26.4	8.1	9.2	10.2	10.8
30°	493.7	398.9	239.3	16.7	7.5	9.2	10.2	10.8
32.5°	442.0	334.7	170.9	10.2	7.5	9.2	10.2	10.8
35°	372.4	256.0	111.0	7.0	7.5	9.2	10.8	11.3
37.5°	294.3	178.9	59.8	5.4	7.5	9.2	10.8	11.3
40°	211.8	107.3	21.6	4.9	7.0	9.7	11.3	11.9
42.5°	124.0	39.9	3.8	4.3	7.0	9.7	11.3	11.9
45°	35.6	4.3	2.2	4.3	7.0	9.7	11.9	12.4
47.5°	2.7	1.6	2.2	4.3	7.0	9.7	11.9	12.9
50°	1.6	1.6	1.6	4.3	7.0	10.2	12.4	12.9
52.5°	2.2	2.2	2.2	4.3	7.0	10.2	12.4	12.9
55°	2.2	2.2	2.2	4.3	7.0	10.2	12.4	12.9
57.5°	2.2	2.2	2.2	4.3	7.0	9.7	12.4	12.9
60°	2.2	2.2	2.2	3.8	6.5	9.7	11.9	12.4
62.5°	2.2	2.2	2.2	3.8	6.5	9.2	11.9	11.9
65°	2.2	2.2	2.2	3.2	5.9	8.6	10.8	11.3
67.5°	2.2	2.2	2.2	3.2	5.4	8.1	10.2	10.8
70°	1.6	2.2	2.2	2.7	4.9	7.5	9.7	10.2
72.5°	1.6	1.6	2.2	2.7	4.3	6.5	8.6	9.2
75°	1.6	1.6	1.6	2.2	3.8	5.9	7.5	8.1
77.5°	1.6	1.6	1.6	2.2	3.2	4.9	7.0	7.0
80°	1.1	1.6	1.6	1.6	2.7	3.8	5.4	5.9
82.5°	1.1	1.1	1.1	1.6	2.2	3.2	4.3	4.3
85°	1.1	1.1	1.1	1.1	1.6	2.2	2.7	2.7
87.5°	0.5	1.1	1.1	1.1	1.1	1.1	1.1	1.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)