

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: P1316029

Luminaire Tested: P3SQAS05R709827DE010 E3SQCA301MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1316029
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-70)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS05R709827DE010 E3SQCA301MW
Description: 3in Adjustable LED luminaire with, R70 optic, 2700K CCT AND, 98CRI , E3SQCA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

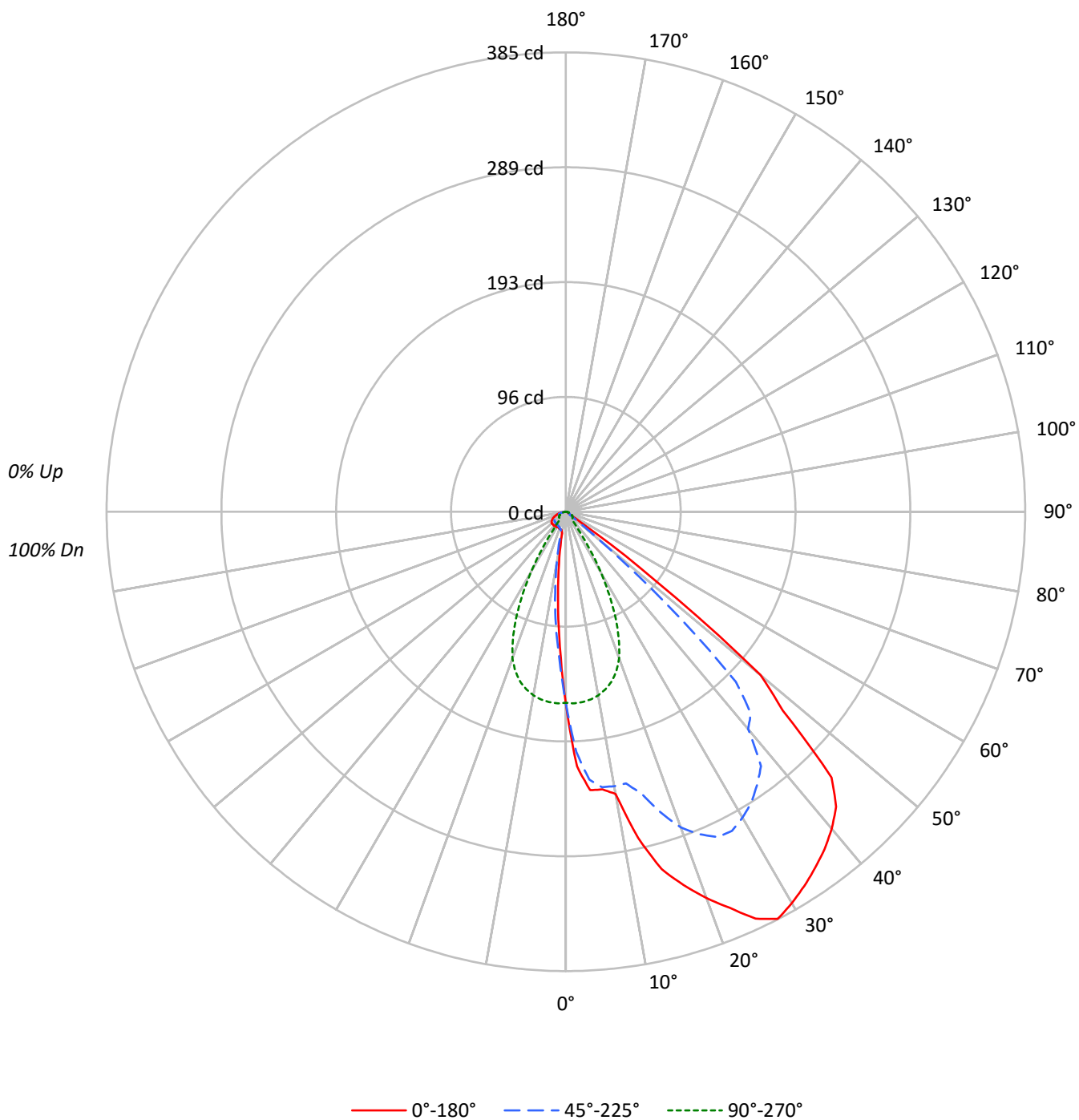
Lumens per Lamp: N/A
Luminaire Lumens: 304.0 lumens
Efficiency: N/A
Efficacy: 42.2 lumens/watt
Spacing Criteria (0/90/45): 1.69 / 0.89 / 1.39
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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: P1316029

CATALOG NUMBER: P3SQAS05R709827DE010 E3SQCA301MW

Luminous Intensity Polar Plot



TEST NUMBER: P1316029

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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	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90		
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80		
3	97	89	83	78	95	87	82	77	85	80	76	82	78	74	80	76	73	71		
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	64		
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	62	59	57		
6	79	67	60	54	77	66	59	54	65	58	54	63	58	53	62	57	53	51		
7	73	62	54	49	72	61	54	49	60	53	48	58	52	48	57	52	48	46		
8	69	57	49	44	67	56	49	44	55	49	44	54	48	44	53	47	43	42		
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	38		
10	60	49	42	37	59	48	41	37	47	41	37	46	41	36	45	40	36	35		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	27573	27573	27573	27573	27573
5°	40489	38933	27678	16527	12949
10°	41989	40834	27334	7905	3200
15°	55290	43540	26317	2835	2764
20°	63157	51592	23954	2712	2786
25°	71507	57160	18813	2622	2755
30°	75330	58864	11654	2605	2943
35°	76592	58742	3847	2691	3112
40°	77945	53440	1866	2878	3417
45°	76697	49053	1924	3020	3702
50°	57016	9056	1929	3322	4073
55°	4564	1231	2072	3513	4354
60°	964	1309	2032	3548	4512
65°	978	1263	1956	3505	4646
70°	856	1209	1913	3323	4532
75°	665	1131	1597	3194	4392
80°	694	992	1686	3075	4066
85°	593	1383	1976	2766	3359

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°

Vertical Angle: 45°

Luminance: 77622 cd/sqm

TEST NUMBER: P1316029

CATALOG NUMBER: P3SQAS05R709827DE010 E3SQCA301MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.6	4.8
10°-20°	41.0	13.5
20°-30°	68.8	22.6
30°-40°	82.7	27.2
40°-50°	65.6	21.6
50°-60°	21.0	6.9
60°-70°	5.9	1.9
70°-80°	3.5	1.1
80°-90°	1.1	0.4
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°	124.3	40.9
0°-40°	207.0	68.1
0°-60°	293.5	96.6
0°-90°	304.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	304.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	160	160	160	160	160	
5°	234	225	160	96	75	22
15°	310	244	148	16	16	87
25°	376	301	99	14	14	172
35°	364	279	18	13	15	228
45°	315	201	8	12	15	226
55°	15	4	7	12	14	48
65°	2	3	5	9	11	2
75°	1	2	2	5	7	1
85°	0	1	1	1	2	0
90°	0	0	0	0	0	

TEST NUMBER: P1316029

CATALOG NUMBER: P3SQAS05R709827DE010 E3SQCA301MW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	160.1	160.1	160.1	160.1	160.1	160.1	160.1	160.1	160.1	160.1	160.1
2.5°	213.5	214.9	214.9	213.2	213.9	211.1	209.0	205.9	205.2	201.4	196.6
5°	234.2	233.5	233.5	232.1	232.8	231.8	230.8	230.1	228.0	225.2	222.5
7.5°	234.6	235.3	235.6	235.3	236.6	235.6	235.6	235.6	234.2	232.8	230.1
10°	240.1	239.0	238.0	235.6	234.2	233.2	233.2	233.5	234.2	233.5	231.8
12.5°	279.8	276.0	274.2	268.4	263.9	256.3	247.7	241.1	235.3	233.2	231.8
15°	310.1	309.4	306.0	300.4	294.9	286.0	276.0	266.0	255.3	244.2	236.3
17.5°	328.0	326.7	323.2	317.4	310.8	302.5	294.6	287.0	276.6	264.2	251.5
20°	344.6	341.5	337.0	330.1	323.6	315.6	307.0	299.8	291.1	281.5	266.6
22.5°	359.4	356.7	349.4	340.1	333.6	326.0	318.4	311.5	303.6	292.5	279.1
25°	376.3	370.1	358.4	346.3	338.4	332.2	326.7	321.1	312.9	300.8	284.9
27.5°	384.6	376.0	363.2	351.2	343.6	337.0	331.1	325.6	316.3	301.5	283.2
30°	378.8	373.9	365.0	355.6	349.4	343.2	336.3	328.0	313.2	296.0	279.1
32.5°	371.9	369.4	365.3	359.8	356.0	349.8	340.1	326.7	306.0	289.1	270.8
35°	364.3	363.2	361.8	359.4	357.0	351.2	339.1	319.4	298.7	279.4	261.8
37.5°	356.3	355.3	356.3	356.0	353.9	346.3	328.0	309.8	288.4	268.7	234.6
40°	346.7	346.0	347.7	349.4	347.0	337.0	317.4	295.3	276.3	237.7	225.9
42.5°	335.3	334.9	338.0	339.4	336.0	321.1	298.0	281.8	241.8	229.4	201.8
45°	314.9	315.6	317.0	318.7	316.7	300.4	279.4	249.7	232.1	201.4	114.9
47.5°	246.6	247.3	254.2	268.7	278.7	273.2	255.3	233.2	207.7	115.2	36.2
50°	212.8	212.1	212.5	215.9	223.9	231.5	225.9	213.9	123.8	33.8	4.5
52.5°	93.5	103.8	114.9	145.9	165.9	187.0	191.1	133.8	40.4	4.5	4.5
55°	15.2	15.9	20.0	29.3	52.8	79.7	96.6	44.8	4.1	4.1	4.1
57.5°	3.1	3.1	3.1	3.4	5.2	11.0	12.8	3.8	3.8	3.8	4.1
60°	2.8	2.8	2.8	2.8	3.1	3.1	3.1	3.4	3.4	3.8	3.8
62.5°	2.8	2.8	2.8	2.8	2.8	2.8	3.1	3.1	3.4	3.4	3.8
65°	2.4	2.4	2.4	2.4	2.8	2.8	2.8	2.8	3.1	3.1	3.4
67.5°	2.1	2.1	2.1	2.1	2.4	2.4	2.4	2.8	2.8	2.8	3.1
70°	1.7	1.7	1.7	1.7	2.1	2.1	2.1	2.1	2.4	2.4	2.4
72.5°	1.4	1.4	1.4	1.4	1.7	1.7	1.7	1.7	2.1	2.1	2.1
75°	1.0	1.0	1.4	1.4	1.4	1.4	1.4	1.4	1.7	1.7	1.7
77.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.4	1.4	1.4	1.4
80°	0.7	0.7	0.7	0.7	0.7	0.7	1.0	1.0	1.0	1.0	1.0
82.5°	0.3	0.3	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
85°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.7	0.7	0.7	0.7
87.5°	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3
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: P1316029

CATALOG NUMBER: P3SQAS05R709827DE010 E3SQCA301MW

CANDELA DISTRIBUTION (continued):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	160.1	160.1	160.1	160.1	160.1	160.1	160.1	160.1
2.5°	193.5	188.7	182.1	160.7	141.1	123.1	114.2	113.1
5°	218.0	213.5	202.5	160.1	122.5	95.6	79.3	74.9
7.5°	227.3	223.5	213.9	158.7	104.9	68.6	50.4	43.5
10°	229.7	227.3	219.0	156.3	86.6	45.2	23.8	18.3
12.5°	230.8	229.0	221.1	152.5	68.3	23.5	16.2	16.2
15°	232.5	230.8	223.2	147.6	50.4	15.9	15.5	15.5
17.5°	240.1	234.6	225.9	140.4	33.1	15.2	15.2	15.2
20°	252.5	240.4	227.3	130.7	20.7	14.8	14.8	15.2
22.5°	262.8	246.6	227.0	116.2	15.2	14.1	14.5	14.8
25°	267.3	249.4	223.9	99.0	13.1	13.8	14.5	14.5
27.5°	266.6	250.4	221.1	79.3	12.4	13.5	14.1	14.8
30°	262.8	247.7	214.9	58.6	11.7	13.1	14.1	14.8
32.5°	256.3	237.0	202.5	37.9	11.4	13.1	14.1	14.8
35°	234.9	219.7	184.5	18.3	11.0	12.8	14.5	14.8
37.5°	222.5	201.4	140.7	9.0	10.7	12.8	14.5	14.8
40°	202.5	150.4	63.5	8.3	10.7	12.8	14.5	15.2
42.5°	127.3	61.7	10.3	7.9	10.3	12.8	14.5	15.2
45°	46.6	8.3	5.5	7.9	10.3	12.4	14.5	15.2
47.5°	4.8	4.8	5.2	7.6	10.0	12.4	14.5	15.2
50°	4.5	4.8	5.2	7.2	9.7	12.4	14.1	15.2
52.5°	4.5	4.8	5.2	7.2	9.3	12.1	14.1	15.2
55°	4.5	4.8	4.8	6.9	9.0	11.7	13.8	14.5
57.5°	4.1	4.5	4.8	6.6	8.6	11.0	13.5	14.1
60°	4.1	4.5	4.8	5.9	8.3	10.3	12.8	13.1
62.5°	3.8	4.1	4.5	5.5	7.6	9.7	11.7	12.4
65°	3.8	3.8	4.1	4.8	6.9	8.6	10.7	11.4
67.5°	3.1	3.4	3.4	4.1	5.9	7.6	9.7	10.3
70°	2.8	2.8	3.1	3.8	5.2	6.6	8.3	9.0
72.5°	2.4	2.4	2.4	3.1	4.5	5.9	7.2	7.9
75°	2.1	2.1	2.1	2.4	3.8	4.8	6.2	6.6
77.5°	1.7	1.7	1.7	2.1	3.1	4.1	4.8	5.5
80°	1.4	1.4	1.4	1.7	2.4	3.1	3.8	4.1
82.5°	1.0	1.0	1.0	1.4	1.7	2.1	2.8	2.8
85°	0.7	0.7	0.7	1.0	1.0	1.4	1.7	1.7
87.5°	0.3	0.3	0.3	0.7	0.7	0.7	0.7	0.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)