

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: P1314940

Luminaire Tested: P3SQAS02R709740DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1314940
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-57)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS02R709740DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R70 optic, 4000K CCT AND, 97CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

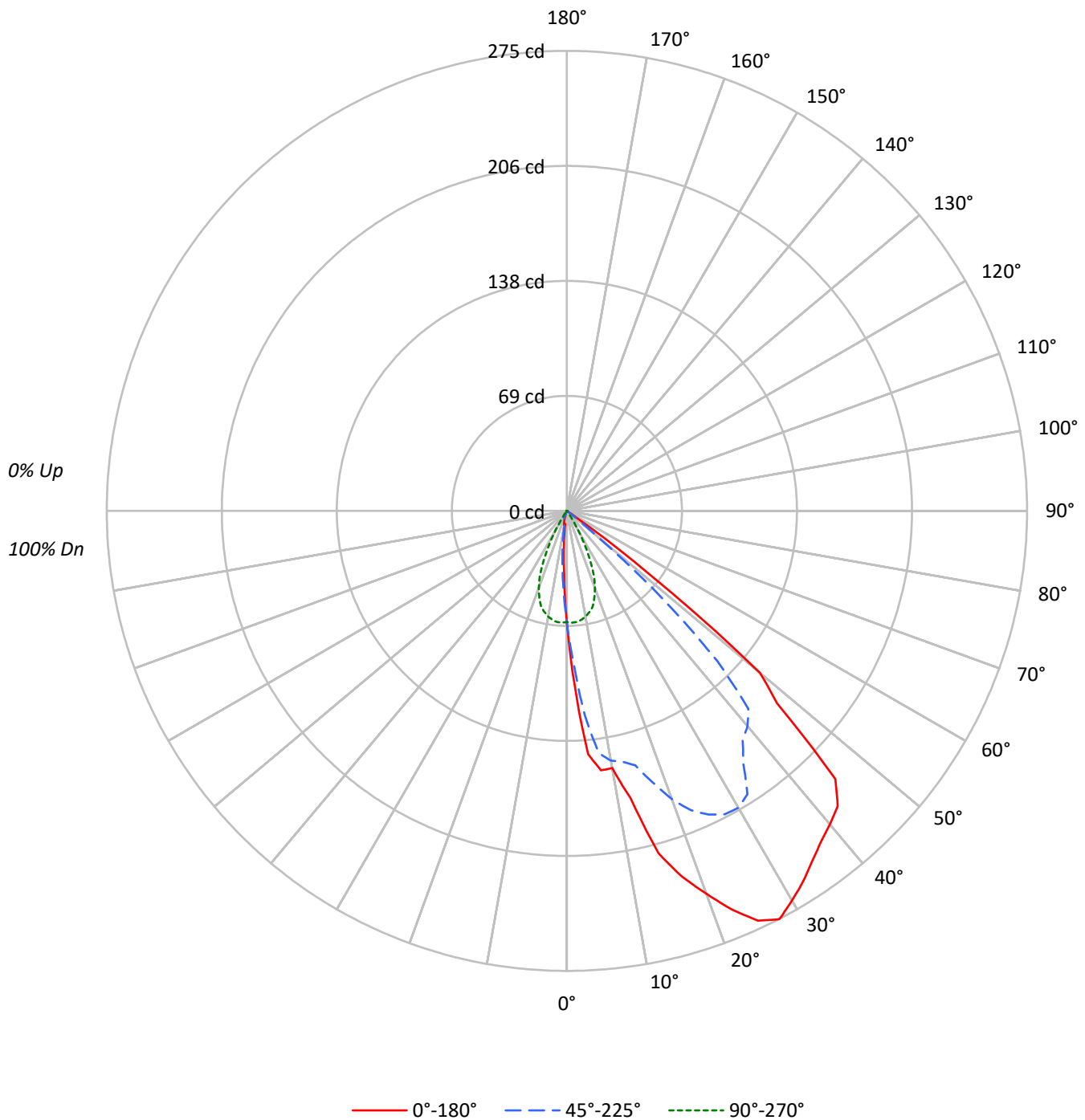
Lumens per Lamp: N/A
Luminaire Lumens: 179.1 lumens
Efficiency: N/A
Efficacy: 49.7 lumens/watt
Spacing Criteria (0/90/45): 2.08 / 0.83 / 1.48
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 3.6
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: P1314940

CATALOG NUMBER: P3SQAS02R709740DE010 E3SQCA301MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1314940

CATALOG NUMBER: P3SQAS02R709740DE010 E3SQCA301MMS

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	102	102	100
1	112	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	93	93	91
2	105	99	94	90	103	98	93	89	94	90	87	91	88	85	88	86	84	84	84	82
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	75	75	73
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	67	67	66
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	61	61	59
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	55	55	55	53
7	74	63	56	50	73	62	55	50	61	54	50	59	54	50	58	53	49	49	49	48
8	69	58	51	46	68	57	50	45	56	50	45	55	49	45	54	49	45	45	45	43
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	45	41	41	41	39
10	61	49	42	38	60	49	42	38	48	42	37	47	41	37	46	41	37	37	37	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	11436	11436	11436	11436	11436
5°	25241	21178	11531	5238	3458
10°	27299	26512	11227	1451	1504
15°	37781	28064	10591	1480	1088
20°	44628	33613	8980	880	330
25°	51364	38062	6328	152	0
30°	53495	40748	2923	0	0
35°	53739	38601	168	0	0
40°	54969	37770	0	0	0
45°	55239	30956	0	0	0
50°	40324	6430	0	0	0
55°	2282	0	0	0	0
60°	0	103	103	0	0
65°	0	0	122	0	0
70°	0	151	151	0	0
75°	0	200	200	0	0
80°	0	298	298	298	0
85°	0	593	593	593	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 5°

Vertical Angle: 45°

Luminance: 56287 cd/sqm

TEST NUMBER: P1314940

CATALOG NUMBER: P3SQAS02R709740DE010 E3SQCA301MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.3	4.1
10°-20°	24.3	13.6
20°-30°	43.6	24.4
30°-40°	53.0	29.6
40°-50°	41.0	22.9
50°-60°	9.5	5.3
60°-70°	0.1	0.0
70°-80°	0.2	0.1
80°-90°	0.2	0.1
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°	75.2	42.0
0°-40°	128.2	71.6
0°-60°	178.7	99.8
0°-90°	179.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	179.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	66	66	66	66	66	
5°	146	122	67	30	20	14
15°	212	157	59	8	6	59
25°	270	200	33	1	0	123
35°	256	184	1	0	0	161
45°	227	127	0	0	0	160
55°	8	0	0	0	0	31
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	

TEST NUMBER: P1314940

CATALOG NUMBER: P3SQAS02R709740DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4
2.5°	103.6	103.6	104.1	103.8	101.5	100.5	97.3	95.5	95.0	90.9	89.4
5°	146.0	146.3	145.0	144.7	142.2	140.4	137.7	133.4	129.1	122.5	116.7
7.5°	156.4	156.1	155.9	155.9	155.3	154.3	153.1	151.8	150.0	146.0	141.5
10°	156.1	156.1	155.9	155.9	155.6	155.9	155.6	154.8	154.1	151.6	149.0
12.5°	175.8	174.3	172.3	169.2	164.2	160.4	156.1	154.8	154.3	153.6	152.1
15°	211.9	210.7	206.4	201.1	196.0	187.4	180.6	171.3	163.9	157.4	154.1
17.5°	229.4	230.1	225.3	222.0	217.2	210.4	202.3	192.7	182.4	170.0	160.1
20°	243.5	244.3	240.2	236.9	231.4	224.3	217.2	206.9	197.0	183.4	170.5
22.5°	257.9	258.4	254.6	249.8	243.5	236.2	227.1	216.5	205.9	193.7	180.1
25°	270.3	269.8	263.5	256.6	250.6	242.7	233.9	223.5	213.4	200.3	187.4
27.5°	275.1	274.8	267.8	261.2	254.1	243.5	235.7	226.6	216.0	204.4	191.2
30°	269.0	273.1	268.5	263.7	255.1	244.5	236.9	226.1	216.2	204.9	190.0
32.5°	262.7	267.8	266.2	264.0	253.9	245.5	235.7	225.6	214.0	200.8	178.1
35°	255.6	260.9	261.2	258.7	249.6	241.2	232.1	221.5	208.4	183.6	167.0
37.5°	249.3	254.4	255.9	250.6	243.5	232.4	224.1	212.9	189.2	172.5	163.9
40°	244.5	248.3	250.6	242.2	235.2	224.3	214.7	195.3	173.8	168.0	155.9
42.5°	239.5	243.0	244.0	234.9	224.1	213.7	199.8	175.3	169.0	160.4	127.8
45°	226.8	231.1	228.6	219.8	211.7	200.8	180.1	169.5	162.7	127.1	78.6
47.5°	170.3	175.1	181.9	184.4	187.2	179.3	168.0	164.2	133.6	77.0	24.5
50°	150.5	149.8	149.8	151.1	153.3	155.9	159.1	138.4	80.3	24.0	0.0
52.5°	61.4	64.4	79.3	92.7	108.1	123.5	128.3	84.9	31.3	0.5	0.0
55°	7.6	7.6	10.6	18.2	30.1	48.5	54.6	27.3	2.3	0.0	0.0
57.5°	0.0	0.0	0.0	0.3	2.0	5.6	3.8	1.0	0.3	0.3	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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: P1314940

CATALOG NUMBER: P3SQAS02R709740DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (continued):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4
2.5°	86.9	83.9	79.6	66.9	56.1	46.5	40.9	38.1
5°	111.1	103.8	94.0	66.7	45.5	30.3	22.7	20.0
7.5°	134.4	126.0	109.4	65.7	34.9	17.7	9.9	7.8
10°	144.5	138.4	123.5	64.2	25.3	8.3	8.3	8.6
12.5°	148.5	144.0	131.9	61.9	16.7	8.1	8.6	8.1
15°	151.3	147.0	135.9	59.4	9.6	8.3	6.8	6.1
17.5°	152.8	147.8	137.2	54.6	6.3	7.1	4.3	3.5
20°	157.6	149.5	138.2	49.0	6.1	4.8	2.3	1.8
22.5°	165.7	153.1	138.4	42.2	4.8	2.8	0.8	0.0
25°	173.0	157.9	139.2	33.3	1.5	0.8	0.0	0.0
27.5°	176.6	159.4	138.9	23.5	0.0	0.0	0.0	0.0
30°	172.3	155.6	136.7	14.7	0.0	0.0	0.0	0.0
32.5°	162.2	152.8	129.6	6.3	0.0	0.0	0.0	0.0
35°	158.9	146.8	113.4	0.8	0.0	0.0	0.0	0.0
37.5°	151.6	129.3	83.4	0.0	0.0	0.0	0.0	0.0
40°	130.3	93.5	39.7	0.0	0.0	0.0	0.0	0.0
42.5°	86.1	39.9	2.3	0.0	0.0	0.0	0.0	0.0
45°	30.3	2.5	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.3	0.3	0.0	0.0	0.0	0.0
67.5°	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0
70°	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0
72.5°	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0
75°	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0
77.5°	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0
80°	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0
82.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0
85°	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0
87.5°	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)