

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: P1305502

Luminaire Tested: P3SQASS02R709024DE010 E3SQCA301MB

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1305502  
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: P3SQASS02R709024DE010 E3SQCA301MB  
Description: 3in Adjustable LED luminaire with, R70 optic, 2400K CCT AND, 90CRI , E3SQCA301MB TRIM  
Light Source: -  
Ballast/Driver: -

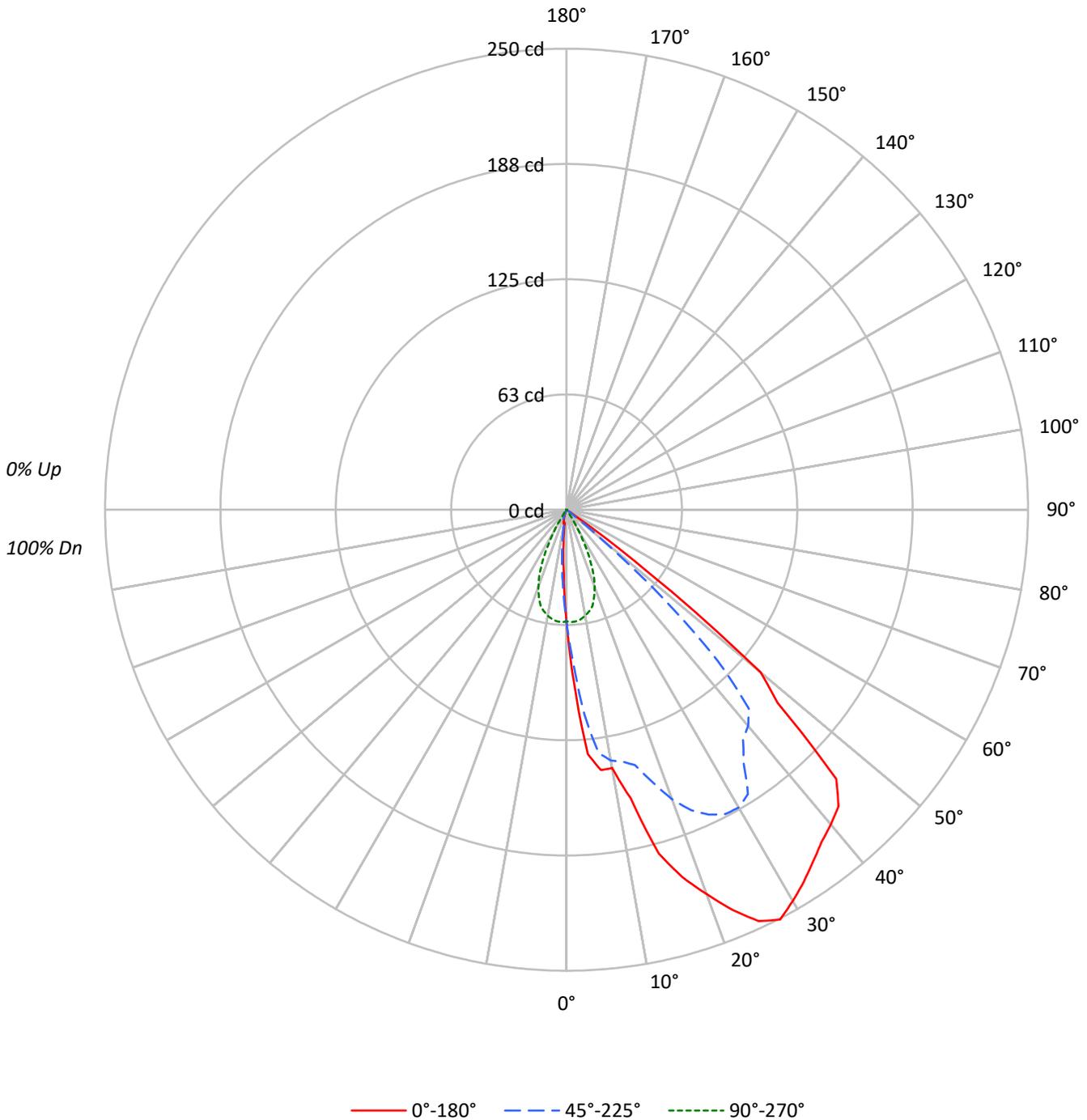
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 163.0 lumens  
Efficiency: N/A  
Efficacy: 45.3 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: P1305502  
CATALOG NUMBER: P3SQASS02R709024DE010 E3SQCA301MB

### Luminous Intensity Polar Plot





TEST NUMBER: P1305502

CATALOG NUMBER: P3SQASS02R709024DE010 E3SQCA301MB

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				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	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	112	109	106	103	110	107	104	102	103	101	99	99	97	96	96	94	93	91				91
2	105	99	94	90	103	98	93	89	94	91	87	91	88	85	88	86	84	82				82
3	98	90	84	79	96	89	83	79	86	81	78	84	80	76	81	78	75	73				73
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66				66
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59				59
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	55	53				53
7	74	63	56	50	73	62	55	50	61	55	50	59	54	50	58	53	49	48				48
8	69	58	51	46	68	57	50	45	56	50	45	55	49	45	54	49	45	43				43
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	45	41	39				39
10	61	49	42	38	60	49	42	38	48	42	37	47	41	37	46	41	37	36				36

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°	135°	180°
0°	10419	10419	10419	10419	10419
5°	22993	19293	10494	4772	3146
10°	24868	24133	10213	1329	1364
15°	34412	25550	9646	1355	981
20°	40632	30607	8174	806	293
25°	46766	34661	5777	133	0
30°	48722	37088	2645	0	0
35°	48945	35153	147	0	0
40°	50068	34398	0	0	0
45°	50319	28180	0	0	0
50°	36733	5868	0	0	0
55°	2072	0	0	0	0
60°	0	69	69	0	0
65°	0	0	82	0	0
70°	0	101	101	0	0
75°	0	133	133	0	0
80°	0	198	198	198	0
85°	0	395	395	395	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 5°  
 Vertical Angle: 45°  
 Luminance: 51269 cd/sqm



TEST NUMBER: P1305502

CATALOG NUMBER: P3SQASS02R709024DE010 E3SQCA301MB

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	6.6	4.1
10°-20°	22.1	13.6
20°-30°	39.7	24.4
30°-40°	48.3	29.6
40°-50°	37.3	22.9
50°-60°	8.7	5.3
60°-70°	0.0	0.0
70°-80°	0.1	0.1
80°-90°	0.1	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
<b>0°-30°</b>	<b>68.4</b>	<b>42.0</b>
<b>0°-40°</b>	<b>116.7</b>	<b>71.6</b>
<b>0°-60°</b>	<b>162.7</b>	<b>99.8</b>
<b>0°-90°</b>	<b>163.0</b>	<b>100.0</b>
90°-120°	0.0	0.0
90°-150°	0.0	0.0
<b>90°-180°</b>	<b>0.0</b>	<b>0.0</b>
<b>0°-180°</b>	<b>163.0</b>	<b>100.0</b>

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	60	60	60	60	60	
5°	133	112	61	28	18	13
15°	193	143	54	8	6	54
25°	246	182	30	1	0	112
35°	233	167	1	0	0	146
45°	207	116	0	0	0	146
55°	7	0	0	0	0	28
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	0



TEST NUMBER: P1305502  
 CATALOG NUMBER: P3SQASS02R709024DE010 E3SQCA301MB

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5
2.5°	94.3	94.3	94.8	94.5	92.5	91.5	88.6	86.9	86.5	82.8	81.4
5°	133.0	133.2	132.0	131.8	129.5	127.9	125.4	121.5	117.5	111.6	106.3
7.5°	142.4	142.2	141.9	141.9	141.5	140.5	139.4	138.2	136.6	133.0	128.8
10°	142.2	142.2	141.9	141.9	141.7	141.9	141.7	141.0	140.3	138.0	135.7
12.5°	160.1	158.7	156.9	154.1	149.5	146.1	142.2	141.0	140.5	139.9	138.5
15°	193.0	191.8	187.9	183.1	178.5	170.7	164.5	156.0	149.3	143.3	140.3
17.5°	208.9	209.5	205.2	202.2	197.8	191.6	184.2	175.5	166.1	154.8	145.8
20°	221.7	222.4	218.7	215.8	210.7	204.3	197.8	188.4	179.4	167.0	155.3
22.5°	234.8	235.3	231.9	227.5	221.7	215.1	206.8	197.1	187.5	176.4	164.0
25°	246.1	245.7	239.9	233.7	228.2	221.0	213.0	203.6	194.4	182.4	170.7
27.5°	250.5	250.3	243.8	237.8	231.4	221.7	214.6	206.3	196.7	186.1	174.1
30°	245.0	248.7	244.5	240.1	232.3	222.7	215.8	205.9	196.9	186.5	173.0
32.5°	239.2	243.8	242.4	240.4	231.2	223.6	214.6	205.4	194.8	182.9	162.2
35°	232.8	237.6	237.8	235.5	227.3	219.7	211.4	201.7	189.8	167.2	152.0
37.5°	227.0	231.6	233.0	228.2	221.7	211.6	204.0	193.9	172.3	157.1	149.3
40°	222.7	226.1	228.2	220.6	214.1	204.3	195.5	177.8	158.3	153.0	141.9
42.5°	218.1	221.3	222.2	213.9	204.0	194.6	181.9	159.6	153.9	146.1	116.4
45°	206.6	210.5	208.2	200.1	192.8	182.9	164.0	154.3	148.1	115.7	71.5
47.5°	155.0	159.4	165.6	167.9	170.4	163.3	153.0	149.5	121.7	70.2	22.3
50°	137.1	136.4	136.4	137.6	139.6	141.9	144.9	126.1	73.1	21.9	0.0
52.5°	55.9	58.7	72.2	84.4	98.4	112.5	116.8	77.3	28.5	0.5	0.0
55°	6.9	6.9	9.7	16.6	27.4	44.2	49.7	24.8	2.1	0.0	0.0
57.5°	0.0	0.0	0.0	0.2	1.8	5.1	3.5	0.9	0.2	0.2	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2
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	0.2	0.2
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2
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: P1305502  
 CATALOG NUMBER: P3SQASS02R709024DE010 E3SQCA301MB

**CANDELA DISTRIBUTION (continued):**

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5
2.5°	79.1	76.4	72.5	61.0	51.1	42.3	37.3	34.7
5°	101.2	94.5	85.6	60.7	41.4	27.6	20.7	18.2
7.5°	122.4	114.8	99.6	59.8	31.7	16.1	9.0	7.1
10°	131.6	126.1	112.5	58.4	23.0	7.6	7.6	7.8
12.5°	135.3	131.1	120.1	56.4	15.2	7.4	7.8	7.4
15°	137.8	133.9	123.8	54.1	8.7	7.6	6.2	5.5
17.5°	139.2	134.6	124.9	49.7	5.8	6.4	3.9	3.2
20°	143.5	136.2	125.8	44.6	5.5	4.4	2.1	1.6
22.5°	150.9	139.4	126.1	38.4	4.4	2.5	0.7	0.0
25°	157.6	143.8	126.7	30.4	1.4	0.7	0.0	0.0
27.5°	160.8	145.1	126.5	21.4	0.0	0.0	0.0	0.0
30°	156.9	141.7	124.4	13.3	0.0	0.0	0.0	0.0
32.5°	147.7	139.2	118.0	5.8	0.0	0.0	0.0	0.0
35°	144.7	133.6	103.3	0.7	0.0	0.0	0.0	0.0
37.5°	138.0	117.8	75.9	0.0	0.0	0.0	0.0	0.0
40°	118.7	85.1	36.1	0.0	0.0	0.0	0.0	0.0
42.5°	78.4	36.3	2.1	0.0	0.0	0.0	0.0	0.0
45°	27.6	2.3	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°	0.2	0.2	0.2	0.2	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	0.2	0.2	0.0	0.0	0.0	0.0
67.5°	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0
70°	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0
72.5°	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0
75°	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0
77.5°	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0
80°	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0
82.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0
85°	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0
87.5°	0.2	0.2	0.2	0.2	0.2	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)