

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: P1446550

Luminaire Tested: P3ART09R709730DE010 E3CLSWW1MMS

Issue Date: 5/8/2026

**Test Information**

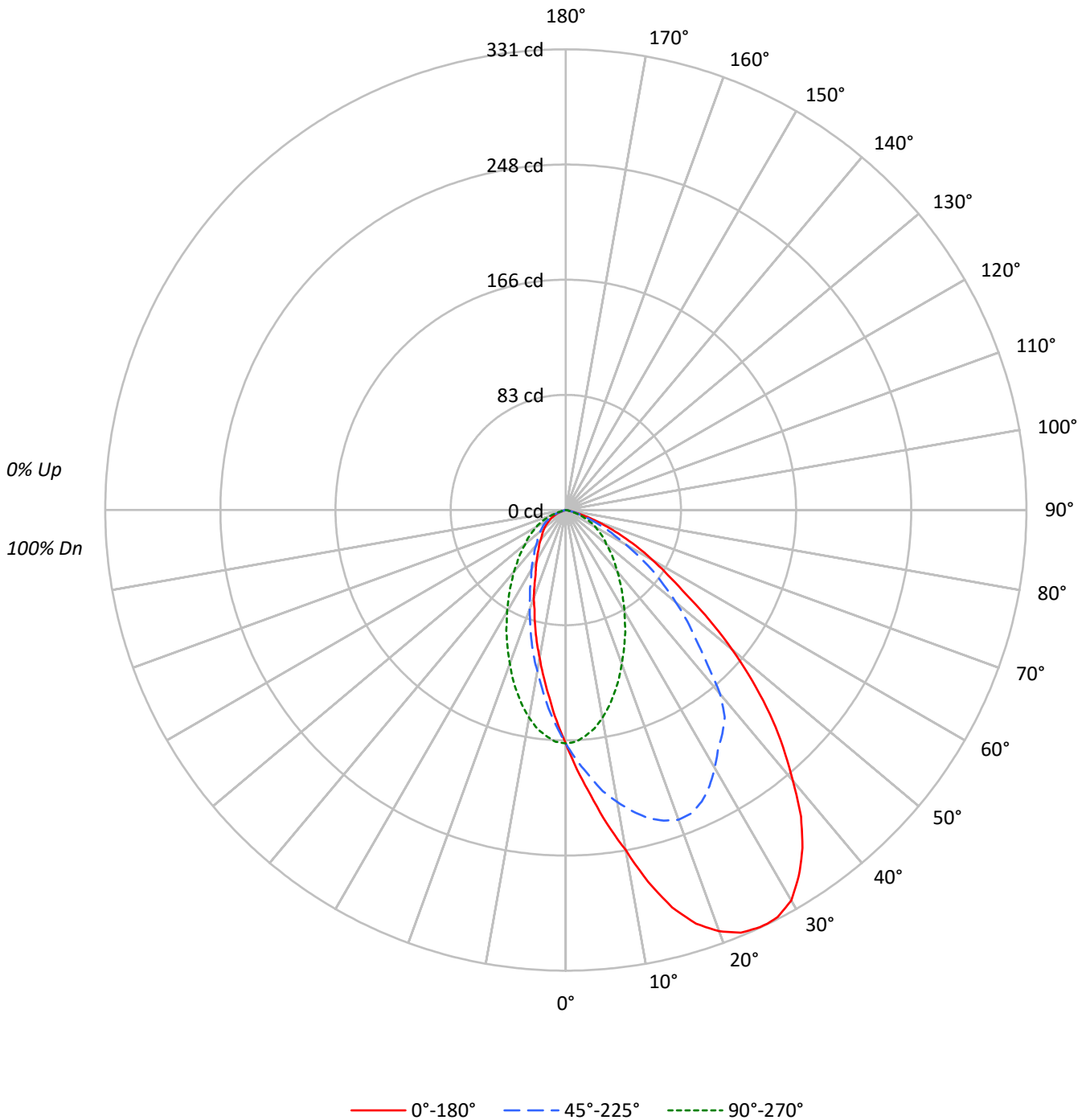
Test Method: LM-79-2019  
Report Number: P1446550  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2509-551-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/8/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3ART09R709730DE010 E3CLSWW1MMS  
Description: 3in Adjustable LED luminaire with, R70 optic, 3000K CCT AND, 97CRI , E3CLSWW1MMS TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 334.0 lumens  
Efficiency: N/A  
Efficacy: 30.1 lumens/watt  
Spacing Criteria (0/90/45): 1.47 / 0.85 / 1.23  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 11.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	102	100
1	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	91	91	91	89
2	103	96	91	86	101	95	90	85	91	87	83	88	85	81	85	82	80	80	80	80	78
3	95	87	80	74	93	85	79	74	82	77	72	80	75	71	77	73	70	70	70	70	68
4	88	78	70	65	86	77	70	64	74	68	63	72	67	63	70	66	62	62	62	62	60
5	82	71	63	57	80	70	62	57	68	61	56	66	60	56	64	59	55	55	55	55	53
6	76	64	56	51	74	63	56	51	62	55	50	60	54	50	59	53	49	49	49	49	47
7	71	59	51	45	69	58	51	45	57	50	45	55	49	45	54	49	44	44	44	44	43
8	66	54	46	41	65	53	46	41	52	46	41	51	45	41	50	44	40	40	40	40	39
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	37	37	37	35
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	34	34	34	32

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

	0°	45°	90°	135°	180°
0°	36773	36773	36773	36773	36773
5°	45256	42131	35857	31477	29826
10°	55265	47450	33756	26163	24048
15°	67106	52032	30761	21725	19364
20°	75163	55258	27419	17688	15705
25°	79988	55915	24292	14662	12388
30°	82038	54211	21345	12483	10559
35°	79371	52494	18765	10654	9128
40°	72679	49350	16545	9504	8130
45°	64348	41121	14699	8807	7350
50°	53320	35240	12929	8085	6789
55°	40218	29323	11966	7608	6155
60°	31576	22016	10789	7061	5394
65°	23608	16240	9340	5915	4410
70°	15195	10322	6668	4231	2436
75°	6439	5592	3219	1610	763
80°	1137	1137	0	0	0
85°	0	0	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 64348 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	15.9	4.8
10°-20°	45.8	13.7
20°-30°	66.9	20.0
30°-40°	72.9	21.8
40°-50°	63.1	18.9
50°-60°	42.3	12.7
60°-70°	21.8	6.5
70°-80°	5.2	1.5
80°-90°	0.0	0.0
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°	128.6	38.5
0°-40°	201.6	60.3
0°-60°	307.0	91.9
0°-90°	334.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	334.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	168	168	168	168	168	
5°	206	191	163	143	136	21
15°	296	229	136	96	85	84
25°	331	231	100	61	51	152
35°	296	196	70	40	34	184
45°	208	133	47	28	24	159
55°	105	77	31	20	16	97
65°	46	31	18	11	8	46
75°	8	7	4	2	1	10
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	167.7	167.7	167.7	167.7	167.7	167.7	167.7	167.7	167.7	167.7	167.7
2.5°	186.6	185.7	185.7	183.8	181.9	180.0	177.1	174.3	171.5	168.6	166.7
5°	205.6	206.5	205.6	201.8	197.0	191.4	185.7	179.0	172.4	166.7	162.9
7.5°	227.4	227.4	224.5	219.8	213.1	203.7	194.2	182.8	172.4	162.9	158.2
10°	248.2	248.2	243.5	235.9	225.5	213.1	199.9	184.7	170.5	157.3	151.6
12.5°	273.8	272.8	267.1	254.8	239.7	221.7	203.7	184.7	167.7	151.6	144.0
15°	295.6	294.6	287.0	271.9	252.0	229.2	204.6	182.8	162.0	144.0	135.5
17.5°	311.7	309.8	301.2	285.1	262.4	234.0	205.6	179.0	155.4	135.5	126.9
20°	322.1	321.1	311.7	292.7	268.1	236.8	204.6	174.3	148.7	126.9	117.5
22.5°	328.7	326.8	317.3	296.5	268.1	235.9	200.8	167.7	140.2	118.4	108.9
25°	330.6	329.7	318.3	295.6	265.2	231.1	195.1	161.0	131.7	109.9	100.4
26°	330.6	329.7	318.3	294.6	263.4	228.3	192.3	158.2	128.8	106.1	97.6
27.5°	329.7	328.7	316.4	291.8	259.6	223.6	186.6	152.5	123.2	101.4	91.9
30°	324.0	322.1	309.8	285.1	251.0	214.1	177.1	144.0	114.6	92.8	84.3
32.5°	311.7	309.8	296.5	273.8	241.6	203.7	166.7	134.5	106.1	84.3	76.7
35°	296.5	294.6	281.4	259.6	228.3	196.1	155.4	124.1	96.6	77.7	70.1
37.5°	277.6	274.7	263.4	240.6	212.2	187.6	145.9	113.7	88.1	70.1	63.5
40°	253.9	252.9	242.5	221.7	193.3	172.4	140.2	113.7	80.5	63.5	57.8
42.5°	231.1	229.2	219.8	201.8	176.2	150.6	123.2	108.9	74.8	56.8	52.1
45°	207.5	205.6	197.0	181.9	158.2	132.6	132.6	93.8	64.4	52.1	47.4
47.5°	181.9	180.0	173.4	162.0	141.1	118.4	96.6	76.7	58.7	46.4	42.6
50°	156.3	157.3	151.6	140.2	124.1	103.3	83.4	64.4	50.2	41.7	37.9
52.5°	130.7	129.8	126.0	118.4	107.0	89.0	71.0	54.9	43.6	36.9	35.1
55°	105.2	106.1	104.2	99.5	90.0	76.7	59.7	47.4	38.8	33.2	31.3
57.5°	87.2	88.1	84.3	81.5	73.9	62.5	49.3	39.8	33.2	29.4	27.5
60°	72.0	72.9	70.1	66.3	60.6	50.2	39.8	33.2	29.4	26.5	24.6
62.5°	58.7	57.8	55.9	52.1	47.4	39.8	32.2	27.5	24.6	22.7	21.8
65°	45.5	45.5	43.6	40.7	36.9	31.3	25.6	22.7	20.8	18.9	18.0
67.5°	34.1	34.1	32.2	30.3	26.5	22.7	19.9	18.0	17.1	15.2	14.2
70°	23.7	23.7	22.7	21.8	18.9	16.1	15.2	13.3	12.3	11.4	10.4
72.5°	15.2	15.2	15.2	13.3	12.3	10.4	10.4	9.5	8.5	7.6	7.6
75°	7.6	8.5	7.6	7.6	6.6	6.6	5.7	5.7	4.7	4.7	3.8
77.5°	2.8	2.8	2.8	2.8	2.8	2.8	1.9	1.9	1.9	1.9	1.9
80°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	167.7	167.7	167.7	167.7	167.7	167.7	167.7	167.7	167.7	167.7
2.5°	164.8	162.0	160.1	157.3	155.4	153.5	152.5	151.6	151.6	151.6
5°	160.1	155.4	150.6	145.9	143.0	140.2	137.4	136.4	135.5	135.5
7.5°	154.4	146.8	140.2	134.5	129.8	126.9	124.1	122.2	121.3	121.3
10°	146.8	137.4	129.8	122.2	117.5	113.7	111.8	108.9	108.9	108.0
12.5°	138.3	126.9	118.4	111.8	107.0	102.3	99.5	97.6	96.6	96.6
15°	128.8	117.5	108.0	100.4	95.7	90.9	88.1	86.2	85.3	85.3
17.5°	119.4	107.0	97.6	90.0	85.3	80.5	77.7	75.8	75.8	74.8
20°	109.9	97.6	88.1	80.5	75.8	72.0	69.2	67.3	66.3	67.3
22.5°	101.4	89.0	79.6	72.9	67.3	63.5	60.6	59.7	58.7	58.7
25°	91.9	80.5	72.0	65.4	60.6	56.8	54.0	53.0	52.1	51.2
26°	89.0	77.7	69.2	62.5	57.8	54.0	52.1	50.2	49.3	49.3
27.5°	85.3	72.9	65.4	58.7	54.0	51.2	48.3	47.4	46.4	46.4
30°	76.7	66.3	58.7	53.0	49.3	45.5	43.6	42.6	41.7	41.7
32.5°	70.1	59.7	53.0	48.3	44.5	41.7	39.8	37.9	37.9	37.9
35°	63.5	54.0	48.3	43.6	39.8	36.9	36.0	35.1	34.1	34.1
37.5°	57.8	49.3	43.6	39.8	36.9	34.1	32.2	31.3	31.3	31.3
40°	52.1	45.5	39.8	36.0	33.2	31.3	29.4	28.4	28.4	28.4
42.5°	47.4	40.7	36.9	33.2	30.3	28.4	27.5	26.5	25.6	25.6
45°	43.6	37.9	33.2	30.3	28.4	26.5	24.6	23.7	23.7	23.7
47.5°	38.8	35.1	30.3	27.5	25.6	23.7	22.7	21.8	21.8	21.8
50°	36.0	32.2	28.4	25.6	23.7	21.8	20.8	19.9	19.9	19.9
52.5°	32.2	29.4	26.5	23.7	21.8	19.9	18.9	18.0	18.0	18.0
55°	29.4	26.5	23.7	21.8	19.9	18.0	17.1	16.1	16.1	16.1
57.5°	26.5	23.7	21.8	19.9	18.0	17.1	15.2	15.2	14.2	14.2
60°	23.7	20.8	18.9	18.0	16.1	15.2	13.3	12.3	12.3	12.3
62.5°	19.9	18.9	17.1	15.2	13.3	12.3	11.4	10.4	10.4	10.4
65°	17.1	16.1	14.2	12.3	11.4	10.4	9.5	8.5	8.5	8.5
67.5°	14.2	12.3	11.4	10.4	9.5	8.5	7.6	6.6	5.7	6.6
70°	10.4	9.5	8.5	7.6	6.6	5.7	4.7	4.7	3.8	3.8
72.5°	6.6	5.7	5.7	4.7	3.8	3.8	2.8	2.8	1.9	1.9
75°	3.8	3.8	2.8	2.8	1.9	1.9	0.9	0.9	0.9	0.9
77.5°	1.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)