

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: P1446238

Luminaire Tested: P3ART02R709050DE010 E3CLSWW1MMS

Issue Date: 5/8/2026

**Test Information**

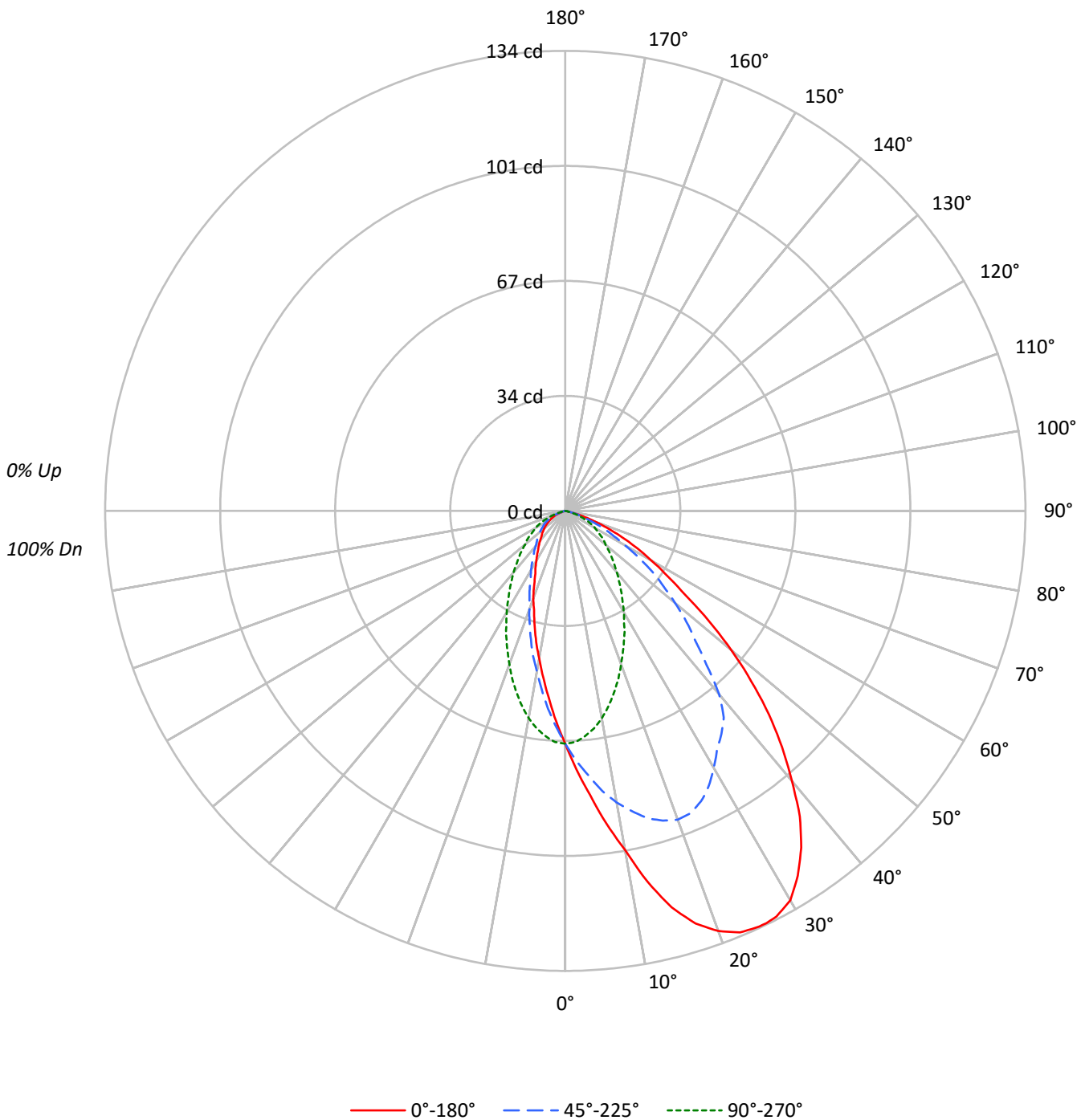
Test Method: LM-79-2019  
Report Number: P1446238  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2509-551-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/8/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3ART02R709050DE010 E3CLSWW1MMS  
Description: 3in Adjustable LED luminaire with, R70 optic, 5000K CCT AND, 90CRI , E3CLSWW1MMS TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 135.0 lumens  
Efficiency: N/A  
Efficacy: 37.5 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): 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

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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	89	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°	14867	14867	14867	14867	14867
5°	18292	17015	14506	12723	12062
10°	22333	19194	13649	10577	9730
15°	27128	21044	12440	8786	7832
20°	30383	22332	11084	7141	6347
25°	32324	22598	9823	5928	5008
30°	33170	21902	8634	5039	4254
35°	32070	21228	7576	4310	3694
40°	29369	19952	6698	3836	3292
45°	26018	16622	5923	3566	2977
50°	21560	14226	5219	3275	2729
55°	16248	11851	4817	3058	2485
60°	12762	8903	4386	2851	2193
65°	9547	6538	3788	2387	1764
70°	6155	4167	2693	1731	962
75°	2626	2288	1271	678	339
80°	505	505	0	0	0
85°	0	0	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 26018 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	6.4	4.8
10°-20°	18.5	13.7
20°-30°	27.1	20.0
30°-40°	29.5	21.8
40°-50°	25.5	18.9
50°-60°	17.1	12.7
60°-70°	8.8	6.5
70°-80°	2.1	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°	52.0	38.5
0°-40°	81.5	60.3
0°-60°	124.1	91.9
0°-90°	135.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	135.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	68	68	68	68	68	
5°	83	77	66	58	55	8
15°	120	93	55	39	34	34
25°	134	93	41	24	21	61
35°	120	79	28	16	14	74
45°	84	54	19	12	10	64
55°	42	31	13	8	6	39
65°	18	13	7	5	3	19
75°	3	3	2	1	0	4
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°	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8
2.5°	75.4	75.0	75.0	74.3	73.5	72.8	71.6	70.5	69.3	68.2	67.4
5°	83.1	83.5	83.1	81.6	79.6	77.3	75.0	72.4	69.7	67.4	65.9
7.5°	91.9	91.9	90.7	88.8	86.2	82.3	78.5	73.9	69.7	65.9	63.9
10°	100.3	100.3	98.4	95.3	91.1	86.2	80.8	74.7	68.9	63.6	61.3
12.5°	110.7	110.3	108.0	103.0	96.9	89.6	82.3	74.7	67.8	61.3	58.2
15°	119.5	119.1	116.0	109.9	101.9	92.7	82.7	73.9	65.5	58.2	54.8
17.5°	126.0	125.2	121.8	115.3	106.1	94.6	83.1	72.4	62.8	54.8	51.3
20°	130.2	129.8	126.0	118.3	108.4	95.7	82.7	70.5	60.1	51.3	47.5
22.5°	132.9	132.1	128.3	119.8	108.4	95.3	81.2	67.8	56.7	47.9	44.0
25°	133.6	133.2	128.7	119.5	107.2	93.4	78.9	65.1	53.2	44.4	40.6
26°	133.6	133.2	128.7	119.1	106.4	92.3	77.7	63.9	52.1	42.9	39.4
27.5°	133.2	132.9	127.9	117.9	104.9	90.4	75.4	61.6	49.8	41.0	37.1
30°	131.0	130.2	125.2	115.3	101.5	86.5	71.6	58.2	46.3	37.5	34.1
32.5°	126.0	125.2	119.8	110.7	97.6	82.3	67.4	54.4	42.9	34.1	31.0
35°	119.8	119.1	113.7	104.9	92.3	79.3	62.8	50.2	39.1	31.4	28.3
37.5°	112.2	111.0	106.4	97.3	85.8	75.8	59.0	45.9	35.6	28.3	25.7
40°	102.6	102.2	98.0	89.6	78.1	69.7	56.7	45.9	32.5	25.7	23.4
42.5°	93.4	92.7	88.8	81.6	71.2	60.9	49.8	44.0	30.2	23.0	21.1
45°	83.9	83.1	79.6	73.5	63.9	53.6	44.0	37.9	26.0	21.1	19.1
47.5°	73.5	72.8	70.1	65.5	57.1	47.9	39.1	31.0	23.7	18.8	17.2
50°	63.2	63.6	61.3	56.7	50.2	41.7	33.7	26.0	20.3	16.8	15.3
52.5°	52.8	52.5	50.9	47.9	43.3	36.0	28.7	22.2	17.6	14.9	14.2
55°	42.5	42.9	42.1	40.2	36.4	31.0	24.1	19.1	15.7	13.4	12.6
57.5°	35.2	35.6	34.1	32.9	29.9	25.3	19.9	16.1	13.4	11.9	11.1
60°	29.1	29.5	28.3	26.8	24.5	20.3	16.1	13.4	11.9	10.7	10.0
62.5°	23.7	23.4	22.6	21.1	19.1	16.1	13.0	11.1	10.0	9.2	8.8
65°	18.4	18.4	17.6	16.5	14.9	12.6	10.3	9.2	8.4	7.7	7.3
67.5°	13.8	13.8	13.0	12.3	10.7	9.2	8.0	7.3	6.9	6.1	5.7
70°	9.6	9.6	9.2	8.8	7.7	6.5	6.1	5.4	5.0	4.6	4.2
72.5°	6.1	6.1	6.1	5.4	5.0	4.2	4.2	3.8	3.4	3.1	3.1
75°	3.1	3.4	3.1	3.1	2.7	2.7	2.3	2.3	1.9	1.9	1.5
77.5°	1.1	1.1	1.1	1.1	1.1	1.1	0.8	0.8	0.8	0.8	0.8
80°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	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°	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8
2.5°	66.6	65.5	64.7	63.6	62.8	62.0	61.6	61.3	61.3	61.3
5°	64.7	62.8	60.9	59.0	57.8	56.7	55.5	55.1	54.8	54.8
7.5°	62.4	59.3	56.7	54.4	52.5	51.3	50.2	49.4	49.0	49.0
10°	59.3	55.5	52.5	49.4	47.5	45.9	45.2	44.0	44.0	43.7
12.5°	55.9	51.3	47.9	45.2	43.3	41.4	40.2	39.4	39.1	39.1
15°	52.1	47.5	43.7	40.6	38.7	36.8	35.6	34.8	34.5	34.5
17.5°	48.2	43.3	39.4	36.4	34.5	32.5	31.4	30.6	30.6	30.2
20°	44.4	39.4	35.6	32.5	30.6	29.1	28.0	27.2	26.8	27.2
22.5°	41.0	36.0	32.2	29.5	27.2	25.7	24.5	24.1	23.7	23.7
25°	37.1	32.5	29.1	26.4	24.5	23.0	21.8	21.4	21.1	20.7
26°	36.0	31.4	28.0	25.3	23.4	21.8	21.1	20.3	19.9	19.9
27.5°	34.5	29.5	26.4	23.7	21.8	20.7	19.5	19.1	18.8	18.8
30°	31.0	26.8	23.7	21.4	19.9	18.4	17.6	17.2	16.8	16.8
32.5°	28.3	24.1	21.4	19.5	18.0	16.8	16.1	15.3	15.3	15.3
35°	25.7	21.8	19.5	17.6	16.1	14.9	14.6	14.2	13.8	13.8
37.5°	23.4	19.9	17.6	16.1	14.9	13.8	13.0	12.6	12.6	12.6
40°	21.1	18.4	16.1	14.6	13.4	12.6	11.9	11.5	11.5	11.5
42.5°	19.1	16.5	14.9	13.4	12.3	11.5	11.1	10.7	10.3	10.3
45°	17.6	15.3	13.4	12.3	11.5	10.7	10.0	9.6	9.6	9.6
47.5°	15.7	14.2	12.3	11.1	10.3	9.6	9.2	8.8	8.8	8.8
50°	14.6	13.0	11.5	10.3	9.6	8.8	8.4	8.0	8.0	8.0
52.5°	13.0	11.9	10.7	9.6	8.8	8.0	7.7	7.3	7.3	7.3
55°	11.9	10.7	9.6	8.8	8.0	7.3	6.9	6.5	6.5	6.5
57.5°	10.7	9.6	8.8	8.0	7.3	6.9	6.1	6.1	5.7	5.7
60°	9.6	8.4	7.7	7.3	6.5	6.1	5.4	5.0	5.0	5.0
62.5°	8.0	7.7	6.9	6.1	5.4	5.0	4.6	4.2	4.2	4.2
65°	6.9	6.5	5.7	5.0	4.6	4.2	3.8	3.4	3.4	3.4
67.5°	5.7	5.0	4.6	4.2	3.8	3.4	3.1	2.7	2.3	2.7
70°	4.2	3.8	3.4	3.1	2.7	2.3	1.9	1.9	1.5	1.5
72.5°	2.7	2.3	2.3	1.9	1.5	1.5	1.1	1.1	0.8	0.8
75°	1.5	1.5	1.1	1.1	0.8	0.8	0.4	0.4	0.4	0.4
77.5°	0.8	0.4	0.4	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)