

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: P1446895

Luminaire Tested: P3ART02R709827DE010 E3LCWW1WMH

Issue Date: 5/8/2026

**Test Information**

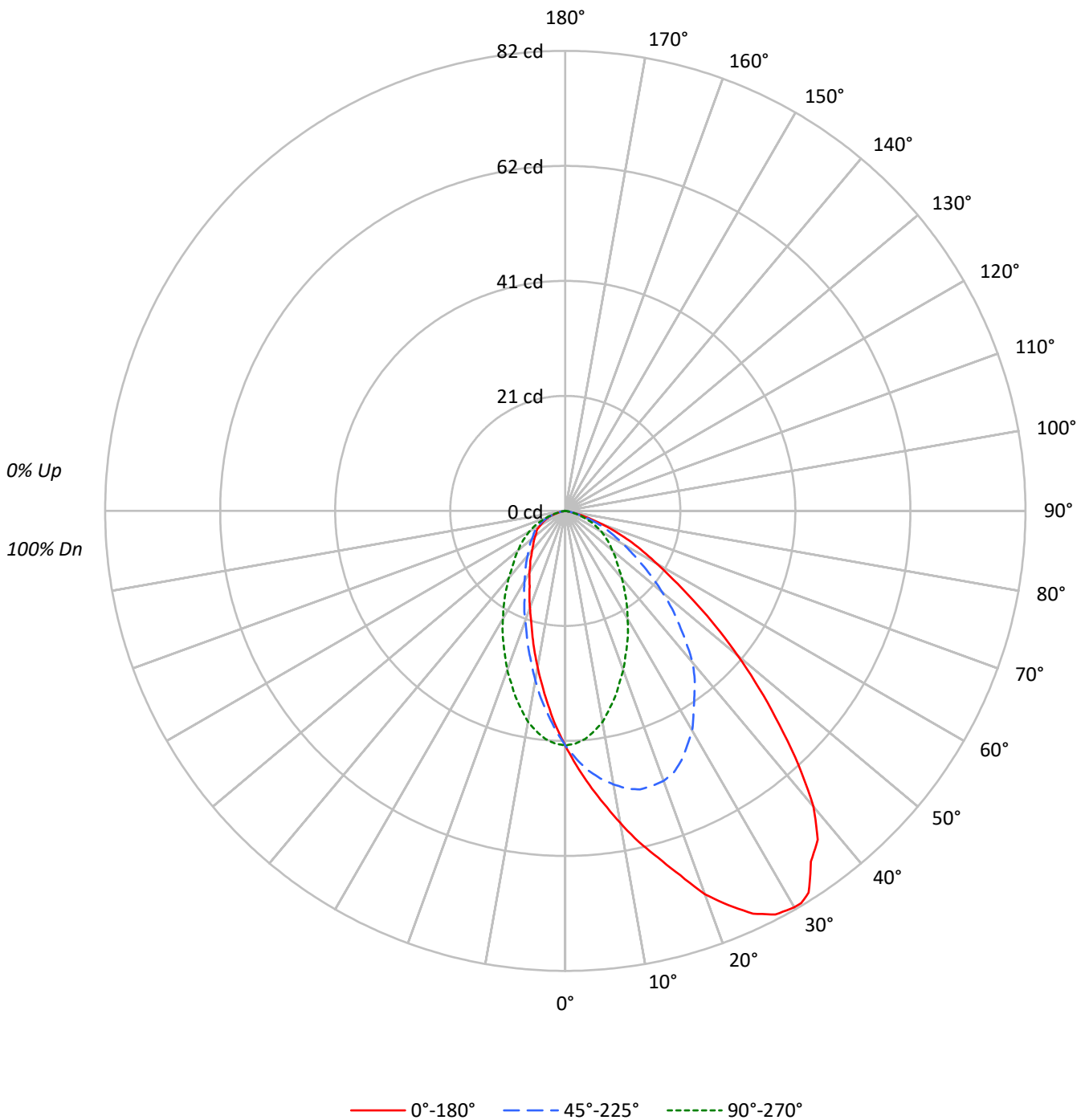
Test Method: LM-79-2019  
Report Number: P1446895  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2509-551-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/8/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3ART02R709827DE010 E3LCWW1WMH  
Description: 3in Adjustable LED luminaire with, R70 optic, 2700K CCT AND, 98CRI , E3LCWW1WMH TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 85.0 lumens  
Efficiency: N/A  
Efficacy: 23.6 lumens/watt  
Spacing Criteria (0/90/45): 1.54 / 0.87 / 1.18  
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	100	100	100	100
1	111	107	103	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88	88	88	88
2	102	95	90	85	100	93	88	84	90	86	82	87	83	80	84	81	78	76	76	76	76
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66	66	66	66
4	87	77	69	63	85	75	68	62	73	67	62	71	65	61	69	64	60	58	58	58	58
5	81	69	61	55	79	68	61	55	66	59	54	64	58	54	62	57	53	51	51	51	51
6	75	63	55	49	73	62	54	49	60	53	48	59	53	48	57	52	47	46	46	46	46
7	70	57	49	44	68	57	49	44	55	48	43	54	48	43	52	47	43	41	41	41	41
8	65	53	45	39	64	52	45	39	51	44	39	50	43	39	48	43	39	37	37	37	37
9	61	49	41	36	60	48	41	36	47	40	36	46	40	35	45	39	35	34	34	34	34
10	57	45	38	33	56	45	37	33	44	37	33	43	37	32	42	36	32	31	31	31	31

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

	0°	45°	90°	135°	180°
0°	9166	9166	9166	9166	9166
5°	10786	10213	8981	7968	7660
10°	12580	11022	8506	6836	6301
15°	14529	11669	7787	5766	5153
20°	16965	11948	7047	4854	4294
25°	19162	11856	6315	4137	3629
30°	20661	11445	5621	3671	3241
35°	20425	10734	5033	3293	2918
40°	19694	10105	4494	2977	2634
45°	16715	8900	4031	2760	2481
50°	13680	7676	3718	2627	2388
55°	10628	6384	3517	2600	2409
60°	8245	5307	3289	2544	2237
65°	6538	4410	2906	2387	2127
70°	4488	3270	2308	1988	1859
75°	2288	1864	1610	1440	1186
80°	253	631	884	631	253
85°	0	0	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 16715 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	3.9	4.6
10°-20°	10.9	12.8
20°-30°	16.0	18.9
30°-40°	18.0	21.2
40°-50°	15.8	18.6
50°-60°	11.3	13.3
60°-70°	6.7	7.9
70°-80°	2.2	2.6
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>30.8</b>	<b>36.3</b>
<b>0°-40°</b>	<b>48.8</b>	<b>57.4</b>
<b>0°-60°</b>	<b>75.9</b>	<b>89.4</b>
<b>0°-90°</b>	<b>85.0</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>85.0</b>	<b>100.0</b>

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	42	42	42	42	42	
5°	49	46	41	36	35	5
15°	64	51	34	25	23	18
25°	79	49	26	17	15	36
35°	76	40	19	12	11	48
45°	54	29	13	9	8	42
55°	28	17	9	7	6	25
65°	13	8	6	5	4	13
75°	3	2	2	2	1	3
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°	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8
2.5°	45.4	45.4	45.4	44.9	44.9	44.2	43.7	43.0	42.5	41.8	41.5
5°	49.0	49.0	48.5	48.1	47.3	46.4	45.2	44.0	42.5	41.3	40.8
7.5°	52.6	52.9	52.2	51.2	49.8	48.1	46.4	44.4	42.3	40.6	39.6
10°	56.5	56.5	55.5	54.1	51.9	49.5	46.9	44.2	41.5	39.1	38.2
12.5°	60.4	60.1	58.9	56.8	54.1	50.7	47.1	43.7	40.6	37.7	36.2
15°	64.0	64.0	62.3	59.7	55.8	51.4	47.1	42.7	39.1	35.7	34.3
17.5°	68.1	68.1	65.9	61.8	57.0	51.4	46.4	41.5	37.4	33.8	32.1
20°	72.7	72.5	69.3	63.8	57.5	51.2	45.4	40.1	35.5	31.6	30.2
22.5°	76.1	75.8	72.2	65.4	57.7	50.5	43.7	38.2	33.6	29.7	28.0
25°	79.2	78.7	74.6	66.2	57.2	49.0	42.0	36.0	31.6	27.8	26.1
27.5°	81.1	80.9	76.3	65.9	56.0	47.1	39.8	34.1	29.5	25.6	24.2
30°	81.6	81.9	76.3	64.7	54.1	45.2	37.7	31.9	27.3	23.9	22.2
31°	81.6	81.9	75.8	64.0	53.4	44.2	36.7	31.2	26.3	22.9	21.5
32.5°	80.7	80.2	75.1	62.8	51.7	42.5	35.5	29.9	25.1	21.7	20.5
35°	76.3	76.6	72.7	60.1	49.3	40.1	33.1	27.5	22.9	20.0	18.8
37.5°	73.9	73.9	66.9	56.5	46.6	37.9	30.2	24.9	21.0	18.4	17.1
40°	68.8	68.1	61.6	52.6	43.5	35.3	28.5	23.2	19.3	16.7	15.7
42.5°	61.6	60.9	55.8	49.3	39.4	31.9	27.0	20.5	17.4	15.2	14.2
45°	53.9	53.4	49.5	43.5	35.5	28.7	23.4	18.8	15.9	13.8	13.0
47.5°	46.9	46.1	43.2	38.6	32.1	25.8	20.3	16.9	14.2	12.6	12.1
50°	40.1	39.8	37.4	33.8	28.5	22.5	17.9	15.0	13.0	11.6	10.9
52.5°	33.8	33.3	32.1	29.2	24.9	19.6	15.7	13.3	11.6	10.6	10.1
55°	27.8	27.8	26.6	24.6	21.3	16.7	13.8	11.8	10.4	9.7	9.2
57.5°	22.9	22.9	22.0	20.8	17.6	14.2	12.1	10.4	9.4	8.7	8.2
60°	18.8	18.8	18.1	16.9	14.7	12.1	10.4	9.2	8.5	7.7	7.5
62.5°	15.7	15.5	15.0	13.8	12.1	10.1	8.9	8.0	7.2	6.8	6.5
65°	12.6	12.3	11.8	10.9	9.7	8.5	7.5	6.8	6.3	5.8	5.6
67.5°	9.7	9.7	9.2	8.5	7.5	6.8	6.0	5.6	5.1	4.8	4.6
70°	7.0	7.0	6.8	6.3	5.6	5.1	4.6	4.3	4.1	3.9	3.6
72.5°	4.8	4.8	4.6	4.3	3.9	3.6	3.1	3.1	2.9	2.9	2.7
75°	2.7	2.7	2.7	2.4	2.4	2.2	2.2	2.2	1.9	1.9	1.9
77.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
80°	0.2	0.2	0.2	0.2	0.5	0.5	0.5	0.5	0.7	0.7	0.7
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2
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°	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8
2.5°	41.3	40.6	40.1	39.8	39.1	38.9	38.6	38.4	38.4	38.4
5°	40.3	39.1	37.9	37.2	36.2	35.7	35.3	35.0	34.8	34.8
7.5°	38.6	37.2	35.7	34.5	33.6	32.6	32.1	31.6	31.6	31.4
10°	37.0	35.0	33.3	31.6	30.7	29.5	29.0	28.5	28.3	28.3
12.5°	35.0	32.6	30.7	29.2	27.8	26.8	26.1	25.6	25.4	25.4
15°	32.8	30.4	28.3	26.8	25.4	24.2	23.4	22.9	22.7	22.7
17.5°	30.7	28.3	25.8	24.4	22.9	21.7	21.3	20.8	20.5	20.3
20°	28.7	25.8	23.9	22.0	20.8	19.8	19.1	18.6	18.4	18.4
22.5°	26.6	23.9	21.7	20.3	19.1	18.1	17.1	16.9	16.7	16.7
25°	24.4	22.0	20.0	18.6	17.1	16.4	15.7	15.2	15.2	15.0
27.5°	22.7	20.3	18.4	16.9	15.9	15.0	14.5	14.0	13.8	13.8
30°	20.8	18.6	16.9	15.7	14.5	13.8	13.3	12.8	12.8	12.8
31°	20.3	18.1	16.4	15.0	14.0	13.3	12.8	12.6	12.3	12.3
32.5°	19.1	17.1	15.5	14.2	13.3	12.6	12.1	11.8	11.8	11.6
35°	17.6	15.7	14.2	13.0	12.3	11.6	11.1	10.9	10.9	10.9
37.5°	16.2	14.5	13.0	12.1	11.4	10.6	10.4	9.9	9.9	9.9
40°	14.7	13.3	12.1	11.1	10.4	9.9	9.7	9.4	9.2	9.2
42.5°	13.5	12.1	11.1	10.4	9.7	9.2	8.9	8.7	8.7	8.5
45°	12.3	11.1	10.4	9.7	8.9	8.7	8.5	8.2	8.0	8.0
47.5°	11.4	10.4	9.4	8.9	8.5	8.0	7.7	7.7	7.5	7.5
50°	10.4	9.4	8.7	8.2	7.7	7.5	7.2	7.2	7.0	7.0
52.5°	9.7	8.7	8.2	7.7	7.2	7.0	6.8	6.8	6.5	6.5
55°	8.7	8.0	7.5	7.2	6.8	6.5	6.3	6.0	6.0	6.3
57.5°	8.0	7.5	7.0	6.8	6.3	6.0	5.8	5.8	5.6	5.8
60°	7.2	6.8	6.3	6.0	5.8	5.6	5.3	5.1	5.1	5.1
62.5°	6.5	6.0	5.8	5.3	5.1	5.1	4.8	4.8	4.8	4.6
65°	5.6	5.3	5.1	4.8	4.6	4.3	4.3	4.1	4.1	4.1
67.5°	4.6	4.3	4.1	4.1	3.9	3.6	3.6	3.6	3.6	3.4
70°	3.6	3.4	3.4	3.1	3.1	3.1	2.9	2.9	2.9	2.9
72.5°	2.7	2.7	2.4	2.4	2.4	2.4	2.2	2.2	2.2	2.2
75°	1.9	1.9	1.9	1.7	1.7	1.7	1.4	1.4	1.4	1.4
77.5°	1.2	1.2	1.2	1.2	1.2	1.0	1.0	1.0	1.0	1.0
80°	0.7	0.7	0.7	0.7	0.5	0.5	0.5	0.5	0.5	0.2
82.5°	0.2	0.2	0.2	0.2	0.2	0.2	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)