

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: P1446628

Luminaire Tested: P3ART02R709735DE010 E3CLSWW1MMS

Issue Date: 5/8/2026

**Test Information**

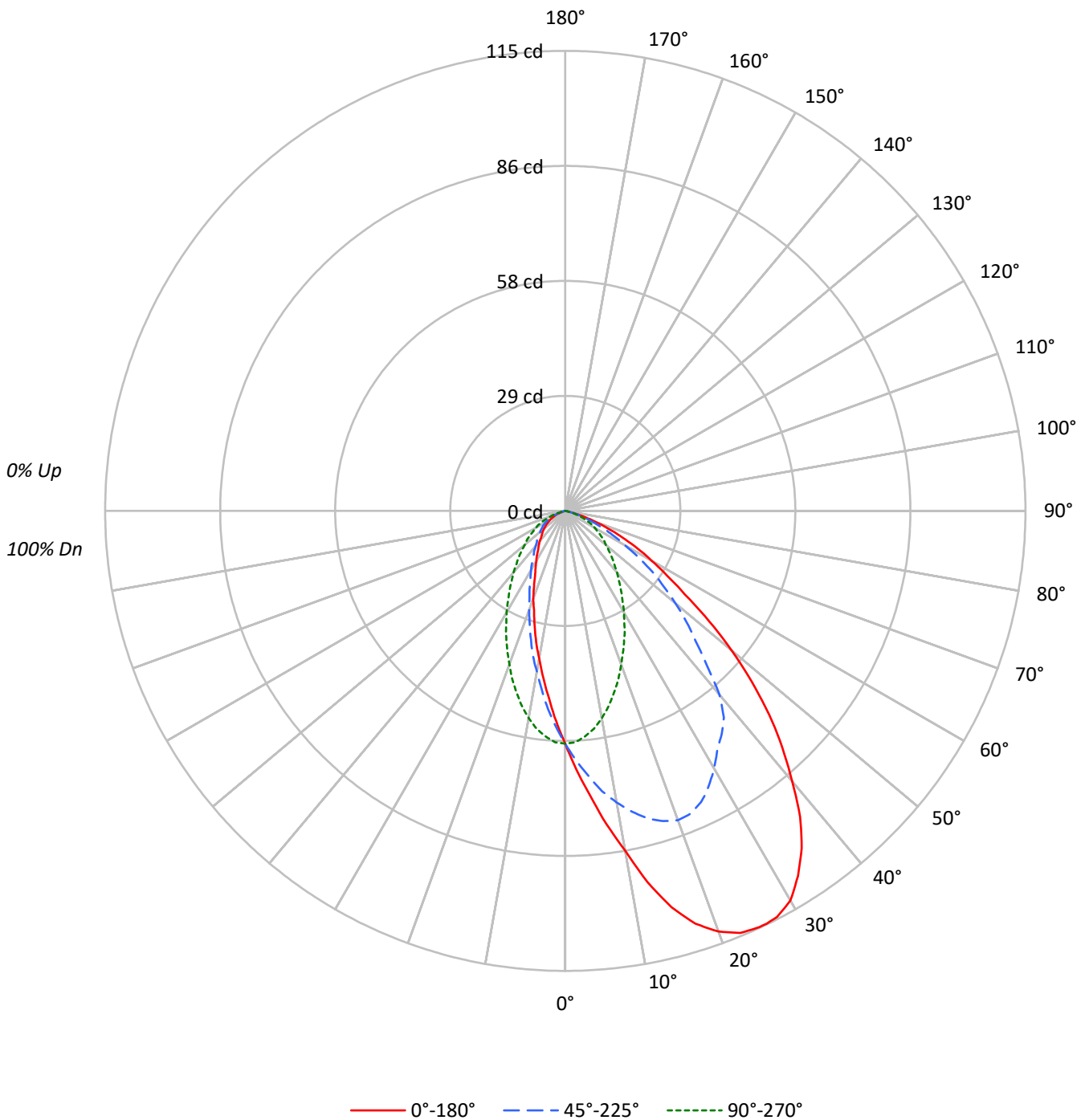
Test Method: LM-79-2019  
Report Number: P1446628  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2509-551-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/8/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3ART02R709735DE010 E3CLSWW1MMS  
Description: 3in Adjustable LED luminaire with, R70 optic, 3500K CCT AND, 97CRI , E3CLSWW1MMS TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 116.0 lumens  
Efficiency: N/A  
Efficacy: 32.2 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	100	100	100	100
1	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89	89	89	89
2	103	96	91	86	101	95	89	85	91	87	83	88	85	81	85	82	80	78	78	78	78
3	95	87	80	74	93	85	79	74	82	77	72	80	75	71	77	73	70	68	68	68	68
4	88	78	70	65	86	77	70	64	74	68	63	72	67	63	70	66	62	60	60	60	60
5	82	71	63	57	80	70	62	57	68	61	56	66	60	56	64	59	55	53	53	53	53
6	76	64	56	51	74	63	56	51	62	55	50	60	54	50	59	53	49	47	47	47	47
7	71	59	51	45	69	58	51	45	57	50	45	55	49	45	54	49	44	43	43	43	43
8	66	54	46	41	65	53	46	41	52	46	41	51	45	41	50	44	40	39	39	39	39
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35	35	35	35
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32	32	32	32

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

	0°	45°	90°	135°	180°
0°	12762	12762	12762	12762	12762
5°	15716	14638	12459	10940	10346
10°	19194	16477	11712	9085	8350
15°	23292	18070	10670	7537	6720
20°	26112	19205	9521	6137	5460
25°	27776	19429	8444	5105	4307
30°	28485	18838	7419	4330	3671
35°	27572	18230	6505	3694	3159
40°	25247	17146	5754	3292	2834
45°	22359	14296	5117	3070	2543
50°	18524	12247	4503	2797	2354
55°	13954	10169	4167	2638	2141
60°	10964	7631	3772	2456	1886
65°	8198	5656	3269	2024	1557
70°	5257	3590	2308	1475	833
75°	2203	1949	1101	593	254
80°	379	379	0	0	0
85°	0	0	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 22359 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	5.5	4.8
10°-20°	15.9	13.7
20°-30°	23.2	20.0
30°-40°	25.3	21.8
40°-50°	21.9	18.9
50°-60°	14.7	12.7
60°-70°	7.6	6.5
70°-80°	1.8	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
<b>0°-30°</b>	<b>44.7</b>	<b>38.5</b>
<b>0°-40°</b>	<b>70.0</b>	<b>60.3</b>
<b>0°-60°</b>	<b>106.6</b>	<b>91.9</b>
<b>0°-90°</b>	<b>116.0</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>116.0</b>	<b>100.0</b>

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	58	58	58	58	58	
5°	71	66	57	50	47	7
15°	103	80	47	33	30	29
25°	115	80	35	21	18	53
35°	103	68	24	14	12	64
45°	72	46	16	10	8	55
55°	36	27	11	7	6	34
65°	16	11	6	4	3	16
75°	3	2	1	1	0	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°	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2
2.5°	64.8	64.5	64.5	63.8	63.2	62.5	61.5	60.5	59.6	58.6	57.9
5°	71.4	71.7	71.4	70.1	68.4	66.5	64.5	62.2	59.9	57.9	56.6
7.5°	79.0	79.0	78.0	76.3	74.0	70.7	67.4	63.5	59.9	56.6	54.9
10°	86.2	86.2	84.6	81.9	78.3	74.0	69.4	64.2	59.2	54.6	52.6
12.5°	95.1	94.8	92.8	88.5	83.2	77.0	70.7	64.2	58.2	52.6	50.0
15°	102.6	102.3	99.7	94.4	87.5	79.6	71.1	63.5	56.3	50.0	47.0
17.5°	108.2	107.6	104.6	99.0	91.1	81.3	71.4	62.2	54.0	47.0	44.1
20°	111.9	111.5	108.2	101.7	93.1	82.3	71.1	60.5	51.7	44.1	40.8
22.5°	114.2	113.5	110.2	103.0	93.1	81.9	69.7	58.2	48.7	41.1	37.8
25°	114.8	114.5	110.5	102.6	92.1	80.3	67.8	55.9	45.7	38.2	34.9
26°	114.8	114.5	110.5	102.3	91.5	79.3	66.8	54.9	44.7	36.8	33.9
27.5°	114.5	114.2	109.9	101.3	90.1	77.6	64.8	53.0	42.8	35.2	31.9
30°	112.5	111.9	107.6	99.0	87.2	74.4	61.5	50.0	39.8	32.2	29.3
32.5°	108.2	107.6	103.0	95.1	83.9	70.7	57.9	46.7	36.8	29.3	26.6
35°	103.0	102.3	97.7	90.1	79.3	68.1	54.0	43.1	33.6	27.0	24.3
37.5°	96.4	95.4	91.5	83.6	73.7	65.1	50.7	39.5	30.6	24.3	22.0
40°	88.2	87.8	84.2	77.0	67.1	59.9	48.7	39.5	28.0	22.0	20.1
42.5°	80.3	79.6	76.3	70.1	61.2	52.3	42.8	37.8	26.0	19.7	18.1
45°	72.1	71.4	68.4	63.2	54.9	46.1	46.1	32.6	22.4	18.1	16.5
47.5°	63.2	62.5	60.2	56.3	49.0	41.1	33.6	26.6	20.4	16.1	14.8
50°	54.3	54.6	52.6	48.7	43.1	35.9	29.0	22.4	17.4	14.5	13.2
52.5°	45.4	45.1	43.8	41.1	37.2	30.9	24.7	19.1	15.1	12.8	12.2
55°	36.5	36.8	36.2	34.5	31.3	26.6	20.7	16.5	13.5	11.5	10.9
57.5°	30.3	30.6	29.3	28.3	25.7	21.7	17.1	13.8	11.5	10.2	9.5
60°	25.0	25.3	24.3	23.0	21.1	17.4	13.8	11.5	10.2	9.2	8.6
62.5°	20.4	20.1	19.4	18.1	16.5	13.8	11.2	9.5	8.6	7.9	7.6
65°	15.8	15.8	15.1	14.1	12.8	10.9	8.9	7.9	7.2	6.6	6.3
67.5°	11.8	11.8	11.2	10.5	9.2	7.9	6.9	6.3	5.9	5.3	4.9
70°	8.2	8.2	7.9	7.6	6.6	5.6	5.3	4.6	4.3	3.9	3.6
72.5°	5.3	5.3	5.3	4.6	4.3	3.6	3.6	3.3	3.0	2.6	2.6
75°	2.6	3.0	2.6	2.6	2.3	2.3	2.0	2.0	1.6	1.6	1.3
77.5°	1.0	1.0	1.0	1.0	1.0	1.0	0.7	0.7	0.7	0.7	0.7
80°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	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°	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2
2.5°	57.2	56.3	55.6	54.6	54.0	53.3	53.0	52.6	52.6	52.6
5°	55.6	54.0	52.3	50.7	49.7	48.7	47.7	47.4	47.0	47.0
7.5°	53.6	51.0	48.7	46.7	45.1	44.1	43.1	42.4	42.1	42.1
10°	51.0	47.7	45.1	42.4	40.8	39.5	38.8	37.8	37.8	37.5
12.5°	48.0	44.1	41.1	38.8	37.2	35.5	34.5	33.9	33.6	33.6
15°	44.7	40.8	37.5	34.9	33.2	31.6	30.6	29.9	29.6	29.6
17.5°	41.5	37.2	33.9	31.3	29.6	28.0	27.0	26.3	26.3	26.0
20°	38.2	33.9	30.6	28.0	26.3	25.0	24.0	23.4	23.0	23.4
22.5°	35.2	30.9	27.6	25.3	23.4	22.0	21.1	20.7	20.4	20.4
25°	31.9	28.0	25.0	22.7	21.1	19.7	18.8	18.4	18.1	17.8
26°	30.9	27.0	24.0	21.7	20.1	18.8	18.1	17.4	17.1	17.1
27.5°	29.6	25.3	22.7	20.4	18.8	17.8	16.8	16.5	16.1	16.1
30°	26.6	23.0	20.4	18.4	17.1	15.8	15.1	14.8	14.5	14.5
32.5°	24.3	20.7	18.4	16.8	15.5	14.5	13.8	13.2	13.2	13.2
35°	22.0	18.8	16.8	15.1	13.8	12.8	12.5	12.2	11.8	11.8
37.5°	20.1	17.1	15.1	13.8	12.8	11.8	11.2	10.9	10.9	10.9
40°	18.1	15.8	13.8	12.5	11.5	10.9	10.2	9.9	9.9	9.9
42.5°	16.5	14.1	12.8	11.5	10.5	9.9	9.5	9.2	8.9	8.9
45°	15.1	13.2	11.5	10.5	9.9	9.2	8.6	8.2	8.2	8.2
47.5°	13.5	12.2	10.5	9.5	8.9	8.2	7.9	7.6	7.6	7.6
50°	12.5	11.2	9.9	8.9	8.2	7.6	7.2	6.9	6.9	6.9
52.5°	11.2	10.2	9.2	8.2	7.6	6.9	6.6	6.3	6.3	6.3
55°	10.2	9.2	8.2	7.6	6.9	6.3	5.9	5.6	5.6	5.6
57.5°	9.2	8.2	7.6	6.9	6.3	5.9	5.3	5.3	4.9	4.9
60°	8.2	7.2	6.6	6.3	5.6	5.3	4.6	4.3	4.3	4.3
62.5°	6.9	6.6	5.9	5.3	4.6	4.3	3.9	3.6	3.6	3.6
65°	5.9	5.6	4.9	4.3	3.9	3.6	3.3	3.0	3.0	3.0
67.5°	4.9	4.3	3.9	3.6	3.3	3.0	2.6	2.3	2.0	2.3
70°	3.6	3.3	3.0	2.6	2.3	2.0	1.6	1.6	1.3	1.3
72.5°	2.3	2.0	2.0	1.6	1.3	1.3	1.0	1.0	0.7	0.7
75°	1.3	1.3	1.0	1.0	0.7	0.7	0.3	0.3	0.3	0.3
77.5°	0.7	0.3	0.3	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)