

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: P1446420

Luminaire Tested: P3ART09R709727DE010 E3CLSWW1MMS

Issue Date: 5/8/2026

**Test Information**

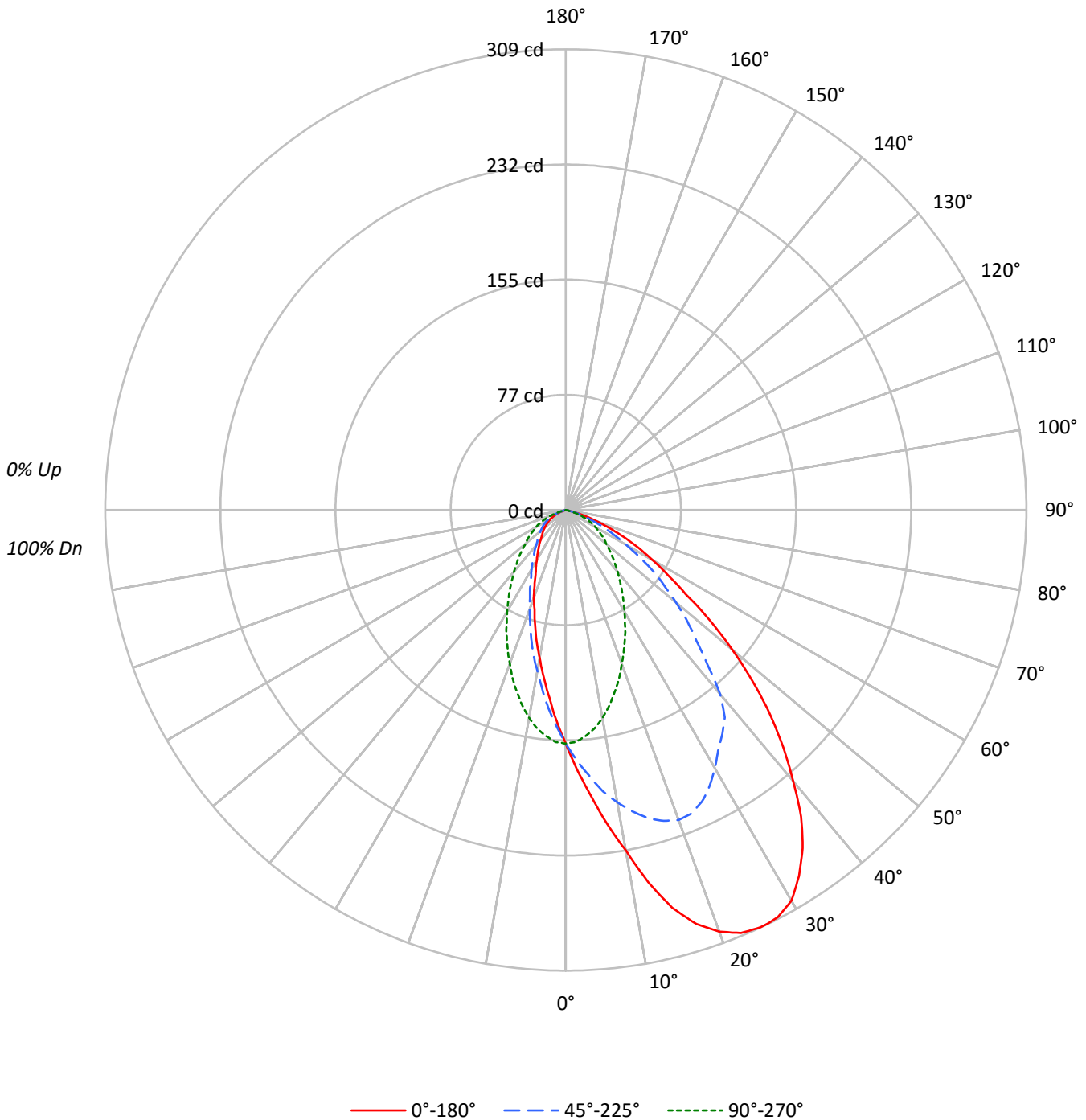
Test Method: LM-79-2019  
Report Number: P1446420  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2509-551-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/8/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3ART09R709727DE010 E3CLSWW1MMS  
Description: 3in Adjustable LED luminaire with, R70 optic, 2700K CCT AND, 97CRI , E3CLSWW1MMS TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 312.0 lumens  
Efficiency: N/A  
Efficacy: 28.1 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	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°	34339	34339	34339	34339	34339
5°	42263	39357	33502	29408	27845
10°	51613	44332	31529	24426	22467
15°	62679	48604	28718	20295	18070
20°	70216	51618	25599	16521	14655
25°	74714	52237	22695	13694	11565
30°	76619	50641	19952	11647	9850
35°	74151	49041	17534	9958	8539
40°	67899	46115	15458	8874	7586
45°	60099	38423	13707	8218	6853
50°	49806	32920	12076	7539	6345
55°	37542	27411	11163	7111	5735
60°	29515	20569	10087	6578	5043
65°	22052	15151	8717	5500	4151
70°	14169	9617	6219	3975	2244
75°	6015	5253	2965	1525	763
80°	1137	1137	0	0	0
85°	0	0	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 60099 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	14.9	4.8
10°-20°	42.8	13.7
20°-30°	62.5	20.0
30°-40°	68.1	21.8
40°-50°	59.0	18.9
50°-60°	39.5	12.7
60°-70°	20.4	6.5
70°-80°	4.8	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
0°-30°	120.1	38.5
0°-40°	188.3	60.3
0°-60°	286.7	91.9
0°-90°	312.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	312.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	157	157	157	157	157	
5°	192	179	152	134	126	20
15°	276	214	126	89	80	78
25°	309	216	94	57	48	142
35°	277	183	66	37	32	172
45°	194	124	44	26	22	148
55°	98	72	29	19	15	91
65°	42	29	17	11	8	43
75°	7	6	4	2	1	9
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°	156.6	156.6	156.6	156.6	156.6	156.6	156.6	156.6	156.6	156.6	156.6
2.5°	174.3	173.4	173.4	171.7	169.9	168.1	165.5	162.8	160.2	157.5	155.7
5°	192.0	192.9	192.0	188.5	184.1	178.8	173.4	167.2	161.1	155.7	152.2
7.5°	212.4	212.4	209.7	205.3	199.1	190.3	181.4	170.8	161.1	152.2	147.8
10°	231.8	231.8	227.4	220.3	210.6	199.1	186.7	172.6	159.3	146.9	141.6
12.5°	255.7	254.9	249.5	238.0	223.9	207.1	190.3	172.6	156.6	141.6	134.5
15°	276.1	275.2	268.1	254.0	235.4	214.1	191.1	170.8	151.3	134.5	126.5
17.5°	291.1	289.4	281.4	266.4	245.1	218.6	192.0	167.2	145.1	126.5	118.6
20°	300.9	300.0	291.1	273.4	250.4	221.2	191.1	162.8	138.9	118.6	109.7
22.5°	307.1	305.3	296.4	277.0	250.4	220.3	187.6	156.6	131.0	110.6	101.8
25°	308.8	307.9	297.3	276.1	247.8	215.9	182.3	150.4	123.0	102.6	93.8
26°	308.8	307.9	297.3	275.2	246.0	213.3	179.6	147.8	120.3	99.1	91.1
27.5°	307.9	307.1	295.6	272.6	242.5	208.8	174.3	142.5	115.0	94.7	85.8
30°	302.6	300.9	289.4	266.4	234.5	200.0	165.5	134.5	107.1	86.7	78.8
32.5°	291.1	289.4	277.0	255.7	225.7	190.3	155.7	125.7	99.1	78.8	71.7
35°	277.0	275.2	262.8	242.5	213.3	183.2	145.1	115.9	90.3	72.6	65.5
37.5°	259.3	256.6	246.0	224.8	198.2	175.2	136.3	106.2	82.3	65.5	59.3
40°	237.2	236.3	226.5	207.1	180.5	161.1	131.0	106.2	75.2	59.3	54.0
42.5°	215.9	214.1	205.3	188.5	164.6	140.7	115.0	101.8	69.9	53.1	48.7
45°	193.8	192.0	184.1	169.9	147.8	123.9	123.9	87.6	60.2	48.7	44.2
47.5°	169.9	168.1	161.9	151.3	131.9	110.6	90.3	71.7	54.9	43.4	39.8
50°	146.0	146.9	141.6	131.0	115.9	96.5	77.9	60.2	46.9	38.9	35.4
52.5°	122.1	121.2	117.7	110.6	100.0	83.2	66.4	51.3	40.7	34.5	32.7
55°	98.2	99.1	97.3	92.9	84.1	71.7	55.7	44.2	36.3	31.0	29.2
57.5°	81.4	82.3	78.8	76.1	69.0	58.4	46.0	37.2	31.0	27.4	25.7
60°	67.3	68.1	65.5	61.9	56.6	46.9	37.2	31.0	27.4	24.8	23.0
62.5°	54.9	54.0	52.2	48.7	44.2	37.2	30.1	25.7	23.0	21.2	20.4
65°	42.5	42.5	40.7	38.1	34.5	29.2	23.9	21.2	19.5	17.7	16.8
67.5°	31.9	31.9	30.1	28.3	24.8	21.2	18.6	16.8	15.9	14.2	13.3
70°	22.1	22.1	21.2	20.4	17.7	15.0	14.2	12.4	11.5	10.6	9.7
72.5°	14.2	14.2	14.2	12.4	11.5	9.7	9.7	8.8	8.0	7.1	7.1
75°	7.1	8.0	7.1	7.1	6.2	6.2	5.3	5.3	4.4	4.4	3.5
77.5°	2.7	2.7	2.7	2.7	2.7	2.7	1.8	1.8	1.8	1.8	1.8
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°	156.6	156.6	156.6	156.6	156.6	156.6	156.6	156.6	156.6	156.6
2.5°	154.0	151.3	149.6	146.9	145.1	143.4	142.5	141.6	141.6	141.6
5°	149.6	145.1	140.7	136.3	133.6	131.0	128.3	127.4	126.5	126.5
7.5°	144.2	137.2	131.0	125.7	121.2	118.6	115.9	114.2	113.3	113.3
10°	137.2	128.3	121.2	114.2	109.7	106.2	104.4	101.8	101.8	100.9
12.5°	129.2	118.6	110.6	104.4	100.0	95.6	92.9	91.1	90.3	90.3
15°	120.3	109.7	100.9	93.8	89.4	85.0	82.3	80.5	79.6	79.6
17.5°	111.5	100.0	91.1	84.1	79.6	75.2	72.6	70.8	70.8	69.9
20°	102.6	91.1	82.3	75.2	70.8	67.3	64.6	62.8	61.9	62.8
22.5°	94.7	83.2	74.3	68.1	62.8	59.3	56.6	55.7	54.9	54.9
25°	85.8	75.2	67.3	61.1	56.6	53.1	50.4	49.6	48.7	47.8
26°	83.2	72.6	64.6	58.4	54.0	50.4	48.7	46.9	46.0	46.0
27.5°	79.6	68.1	61.1	54.9	50.4	47.8	45.1	44.2	43.4	43.4
30°	71.7	61.9	54.9	49.6	46.0	42.5	40.7	39.8	38.9	38.9
32.5°	65.5	55.7	49.6	45.1	41.6	38.9	37.2	35.4	35.4	35.4
35°	59.3	50.4	45.1	40.7	37.2	34.5	33.6	32.7	31.9	31.9
37.5°	54.0	46.0	40.7	37.2	34.5	31.9	30.1	29.2	29.2	29.2
40°	48.7	42.5	37.2	33.6	31.0	29.2	27.4	26.5	26.5	26.5
42.5°	44.2	38.1	34.5	31.0	28.3	26.5	25.7	24.8	23.9	23.9
45°	40.7	35.4	31.0	28.3	26.5	24.8	23.0	22.1	22.1	22.1
47.5°	36.3	32.7	28.3	25.7	23.9	22.1	21.2	20.4	20.4	20.4
50°	33.6	30.1	26.5	23.9	22.1	20.4	19.5	18.6	18.6	18.6
52.5°	30.1	27.4	24.8	22.1	20.4	18.6	17.7	16.8	16.8	16.8
55°	27.4	24.8	22.1	20.4	18.6	16.8	15.9	15.0	15.0	15.0
57.5°	24.8	22.1	20.4	18.6	16.8	15.9	14.2	14.2	13.3	13.3
60°	22.1	19.5	17.7	16.8	15.0	14.2	12.4	11.5	11.5	11.5
62.5°	18.6	17.7	15.9	14.2	12.4	11.5	10.6	9.7	9.7	9.7
65°	15.9	15.0	13.3	11.5	10.6	9.7	8.8	8.0	8.0	8.0
67.5°	13.3	11.5	10.6	9.7	8.8	8.0	7.1	6.2	5.3	6.2
70°	9.7	8.8	8.0	7.1	6.2	5.3	4.4	4.4	3.5	3.5
72.5°	6.2	5.3	5.3	4.4	3.5	3.5	2.7	2.7	1.8	1.8
75°	3.5	3.5	2.7	2.7	1.8	1.8	0.9	0.9	0.9	0.9
77.5°	1.8	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)