

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: P1446297

Luminaire Tested: P3ART09R709050DE010 E3LCWW1WMH

Issue Date: 5/8/2026

**Test Information**

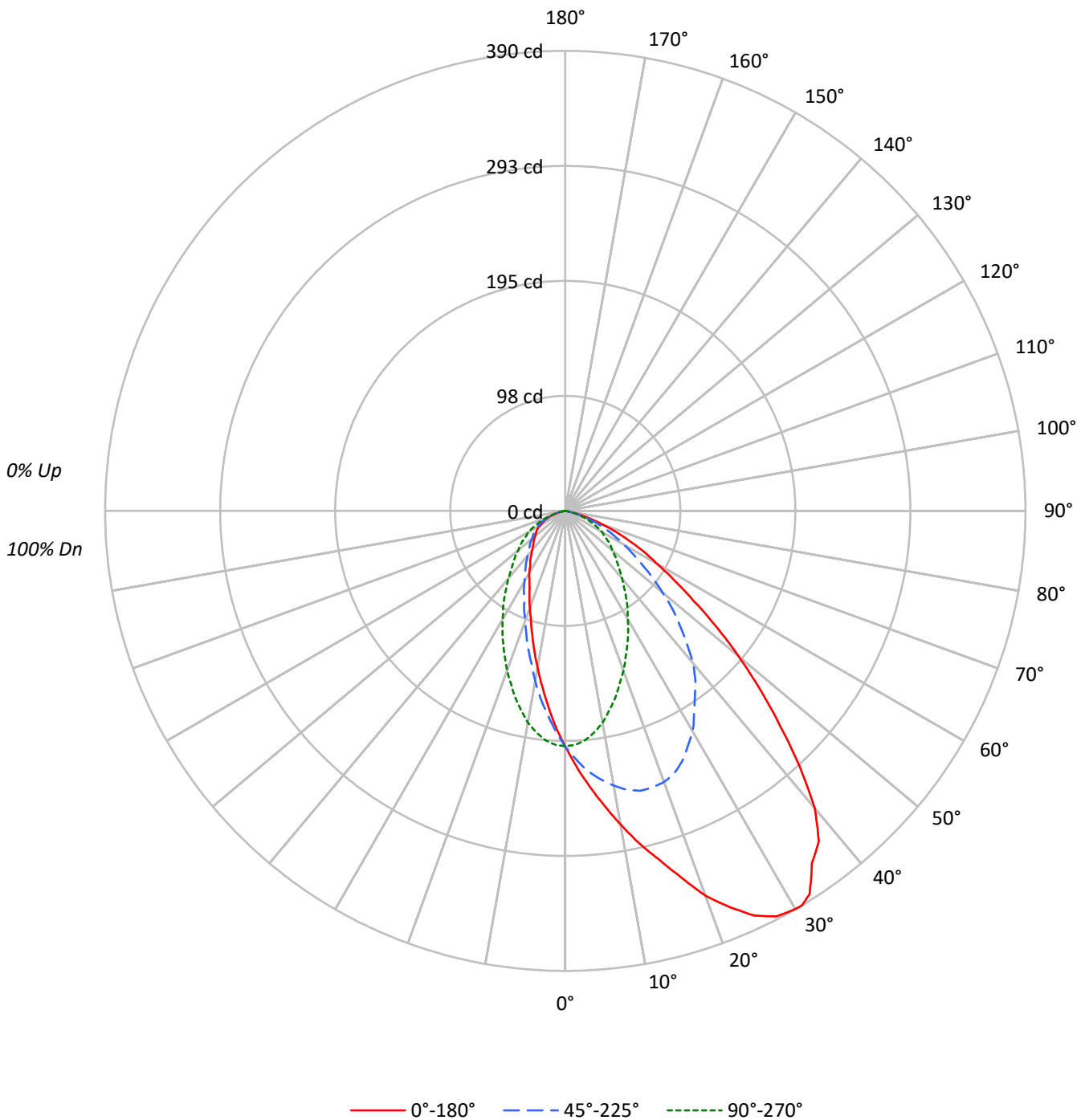
Test Method: LM-79-2019  
Report Number: P1446297  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2509-551-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/8/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3ART09R709050DE010 E3LCWW1WMH  
Description: 3in Adjustable LED luminaire with, R70 optic, 5000K CCT AND, 90CRI , E3LCWW1WMH TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 406.0 lumens  
Efficiency: N/A  
Efficacy: 36.6 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): 11.1  
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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	111	107	103	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88		
2	102	95	90	85	100	93	88	84	90	86	82	87	83	80	84	81	78	76		
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66		
4	87	77	69	63	85	75	68	62	73	67	62	71	65	61	69	64	60	58		
5	81	69	61	55	79	68	61	55	66	59	54	64	58	54	62	57	53	51		
6	75	63	55	49	73	62	54	49	60	53	48	59	53	48	57	52	47	46		
7	70	57	49	44	68	57	49	44	55	48	43	54	48	43	52	47	43	41		
8	65	53	45	39	64	52	45	39	51	44	39	50	43	39	48	43	39	37		
9	61	49	41	36	60	48	41	36	47	40	36	46	40	35	45	39	35	34		
10	57	45	38	33	56	45	37	33	44	37	33	43	37	32	42	36	32	31		

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

	0°	45°	90°	135°	180°
0°	43768	43768	43768	43768	43768
5°	51552	48756	42923	38080	36562
10°	60097	52660	40592	32620	30060
15°	69399	55778	37185	27492	24609
20°	81020	57078	33650	23149	20465
25°	91554	56665	30147	19816	17299
30°	98724	54616	26865	17522	15471
35°	97574	51263	24092	15740	13893
40°	94119	48205	21469	14198	12538
45°	79760	42578	19320	13242	11815
50°	65328	36604	17705	12588	11428
55°	50732	30431	16745	12348	11469
60°	39471	25305	15700	12148	10613
65°	31132	20962	13750	11363	10170
70°	21478	15515	11092	9617	8848
75°	10760	8811	7795	6863	5846
80°	1515	2904	4420	2904	1515
85°	0	0	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 79760 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	18.7	4.6
10°-20°	52.0	12.8
20°-30°	76.6	18.9
30°-40°	85.9	21.2
40°-50°	75.5	18.6
50°-60°	54.0	13.3
60°-70°	32.0	7.9
70°-80°	10.7	2.6
80°-90°	0.5	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
0°-30°	147.3	36.3
0°-40°	233.2	57.4
0°-60°	362.7	89.3
0°-90°	406.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	406.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	200	200	200	200	200	
5°	234	222	195	173	166	23
15°	306	246	164	121	108	88
25°	378	234	125	82	72	174
35°	364	192	90	59	52	229
45°	257	137	62	43	38	199
55°	133	80	44	32	30	121
65°	60	40	26	22	20	60
75°	13	10	9	8	7	15
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°	199.6	199.6	199.6	199.6	199.6	199.6	199.6	199.6	199.6	199.6	199.6
2.5°	216.9	216.9	216.9	214.6	214.6	211.1	208.8	205.3	203.0	199.6	198.4
5°	234.2	234.2	231.9	229.6	226.1	221.5	215.7	209.9	203.0	197.3	195.0
7.5°	251.5	252.6	249.2	244.6	237.6	229.6	221.5	212.3	201.9	193.8	189.2
10°	269.9	269.9	265.3	258.4	248.0	236.5	223.8	211.1	198.4	186.9	182.3
12.5°	288.4	287.2	281.5	271.1	258.4	242.2	224.9	208.8	193.8	180.0	173.0
15°	305.7	305.7	297.6	284.9	266.5	245.7	224.9	204.2	186.9	170.7	163.8
17.5°	325.3	325.3	314.9	295.3	272.2	245.7	221.5	198.4	178.8	161.5	153.4
20°	347.2	346.1	331.1	304.5	274.5	244.6	216.9	191.5	169.6	151.1	144.2
22.5°	363.4	362.2	344.9	312.6	275.7	241.1	208.8	182.3	160.3	141.9	133.8
25°	378.4	376.1	356.5	316.1	273.4	234.2	200.7	171.9	151.1	132.7	124.6
27.5°	387.6	386.4	364.5	314.9	267.6	224.9	190.3	162.7	140.7	122.3	115.4
30°	389.9	391.1	364.5	309.2	258.4	215.7	180.0	152.3	130.4	114.2	106.1
31°	389.9	391.1	362.2	305.7	254.9	211.1	175.3	148.8	125.7	109.6	102.7
32.5°	385.3	383.0	358.8	299.9	246.9	203.0	169.6	143.0	120.0	103.8	98.1
35°	364.5	365.7	347.2	287.2	235.3	191.5	158.0	131.5	109.6	95.7	90.0
37.5°	353.0	353.0	319.5	269.9	222.6	181.1	144.2	118.8	100.4	87.7	81.9
40°	328.8	325.3	294.2	251.5	207.6	168.4	136.1	110.7	92.3	79.6	75.0
42.5°	294.2	290.7	266.5	235.3	188.0	152.3	129.2	98.1	83.1	72.7	68.1
45°	257.2	254.9	236.5	207.6	169.6	137.3	111.9	90.0	76.1	65.8	62.3
47.5°	223.8	220.3	206.5	184.6	153.4	123.4	96.9	80.7	68.1	60.0	57.7
50°	191.5	190.3	178.8	161.5	136.1	107.3	85.4	71.5	62.3	55.4	51.9
52.5°	161.5	159.2	153.4	139.6	118.8	93.4	75.0	63.4	55.4	50.8	48.4
55°	132.7	132.7	126.9	117.7	101.5	79.6	65.8	56.5	49.6	46.1	43.8
57.5°	109.6	109.6	105.0	99.2	84.2	68.1	57.7	49.6	45.0	41.5	39.2
60°	90.0	90.0	86.5	80.7	70.4	57.7	49.6	43.8	40.4	36.9	35.8
62.5°	75.0	73.8	71.5	65.8	57.7	48.4	42.7	38.1	34.6	32.3	31.1
65°	60.0	58.8	56.5	51.9	46.1	40.4	35.8	32.3	30.0	27.7	26.5
67.5°	46.1	46.1	43.8	40.4	35.8	32.3	28.8	26.5	24.2	23.1	21.9
70°	33.5	33.5	32.3	30.0	26.5	24.2	21.9	20.8	19.6	18.5	17.3
72.5°	23.1	23.1	21.9	20.8	18.5	17.3	15.0	15.0	13.8	13.8	12.7
75°	12.7	12.7	12.7	11.5	11.5	10.4	10.4	10.4	9.2	9.2	9.2
77.5°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
80°	1.2	1.2	1.2	1.2	2.3	2.3	2.3	2.3	3.5	3.5	3.5
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2	1.2
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°	199.6	199.6	199.6	199.6	199.6	199.6	199.6	199.6	199.6	199.6
2.5°	197.3	193.8	191.5	190.3	186.9	185.7	184.6	183.4	183.4	183.4
5°	192.6	186.9	181.1	177.6	173.0	170.7	168.4	167.3	166.1	166.1
7.5°	184.6	177.6	170.7	165.0	160.3	155.7	153.4	151.1	151.1	150.0
10°	176.5	167.3	159.2	151.1	146.5	140.7	138.4	136.1	135.0	135.0
12.5°	167.3	155.7	146.5	139.6	132.7	128.0	124.6	122.3	121.1	121.1
15°	156.9	145.3	135.0	128.0	121.1	115.4	111.9	109.6	108.4	108.4
17.5°	146.5	135.0	123.4	116.5	109.6	103.8	101.5	99.2	98.1	96.9
20°	137.3	123.4	114.2	105.0	99.2	94.6	91.1	88.8	87.7	87.7
22.5°	126.9	114.2	103.8	96.9	91.1	86.5	81.9	80.7	79.6	79.6
25°	116.5	105.0	95.7	88.8	81.9	78.4	75.0	72.7	72.7	71.5
27.5°	108.4	96.9	87.7	80.7	76.1	71.5	69.2	66.9	65.8	65.8
30°	99.2	88.8	80.7	75.0	69.2	65.8	63.4	61.1	61.1	61.1
31°	96.9	86.5	78.4	71.5	66.9	63.4	61.1	60.0	58.8	58.8
32.5°	91.1	81.9	73.8	68.1	63.4	60.0	57.7	56.5	56.5	55.4
35°	84.2	75.0	68.1	62.3	58.8	55.4	53.1	51.9	51.9	51.9
37.5°	77.3	69.2	62.3	57.7	54.2	50.8	49.6	47.3	47.3	47.3
40°	70.4	63.4	57.7	53.1	49.6	47.3	46.1	45.0	43.8	43.8
42.5°	64.6	57.7	53.1	49.6	46.1	43.8	42.7	41.5	41.5	40.4
45°	58.8	53.1	49.6	46.1	42.7	41.5	40.4	39.2	38.1	38.1
47.5°	54.2	49.6	45.0	42.7	40.4	38.1	36.9	36.9	35.8	35.8
50°	49.6	45.0	41.5	39.2	36.9	35.8	34.6	34.6	33.5	33.5
52.5°	46.1	41.5	39.2	36.9	34.6	33.5	32.3	32.3	31.1	31.1
55°	41.5	38.1	35.8	34.6	32.3	31.1	30.0	28.8	28.8	30.0
57.5°	38.1	35.8	33.5	32.3	30.0	28.8	27.7	27.7	26.5	27.7
60°	34.6	32.3	30.0	28.8	27.7	26.5	25.4	24.2	24.2	24.2
62.5°	31.1	28.8	27.7	25.4	24.2	24.2	23.1	23.1	23.1	21.9
65°	26.5	25.4	24.2	23.1	21.9	20.8	20.8	19.6	19.6	19.6
67.5°	21.9	20.8	19.6	19.6	18.5	17.3	17.3	17.3	17.3	16.1
70°	17.3	16.1	16.1	15.0	15.0	15.0	13.8	13.8	13.8	13.8
72.5°	12.7	12.7	11.5	11.5	11.5	11.5	10.4	10.4	10.4	10.4
75°	9.2	9.2	9.2	8.1	8.1	8.1	6.9	6.9	6.9	6.9
77.5°	5.8	5.8	5.8	5.8	5.8	4.6	4.6	4.6	4.6	4.6
80°	3.5	3.5	3.5	3.5	2.3	2.3	2.3	2.3	2.3	1.2
82.5°	1.2	1.2	1.2	1.2	1.2	1.2	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)