

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: P#

Luminaire Tested: P3ART09R70W2N902750DE010 E3LCWW1WMH_4000K

Issue Date: 5/8/2026

Test Information

Test Method: LM-79-2019
Report Number: P#
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: P3ART09R70W2N902750DE010 E3LCWW1WMH_4000K
Description: 3in Adjustable Tunable White LED luminaire with, R70 optic, 4000K CCT AND, 90CRI ,
E3LCWW1WMH TRIM
Light Source: -
Ballast/Driver: -

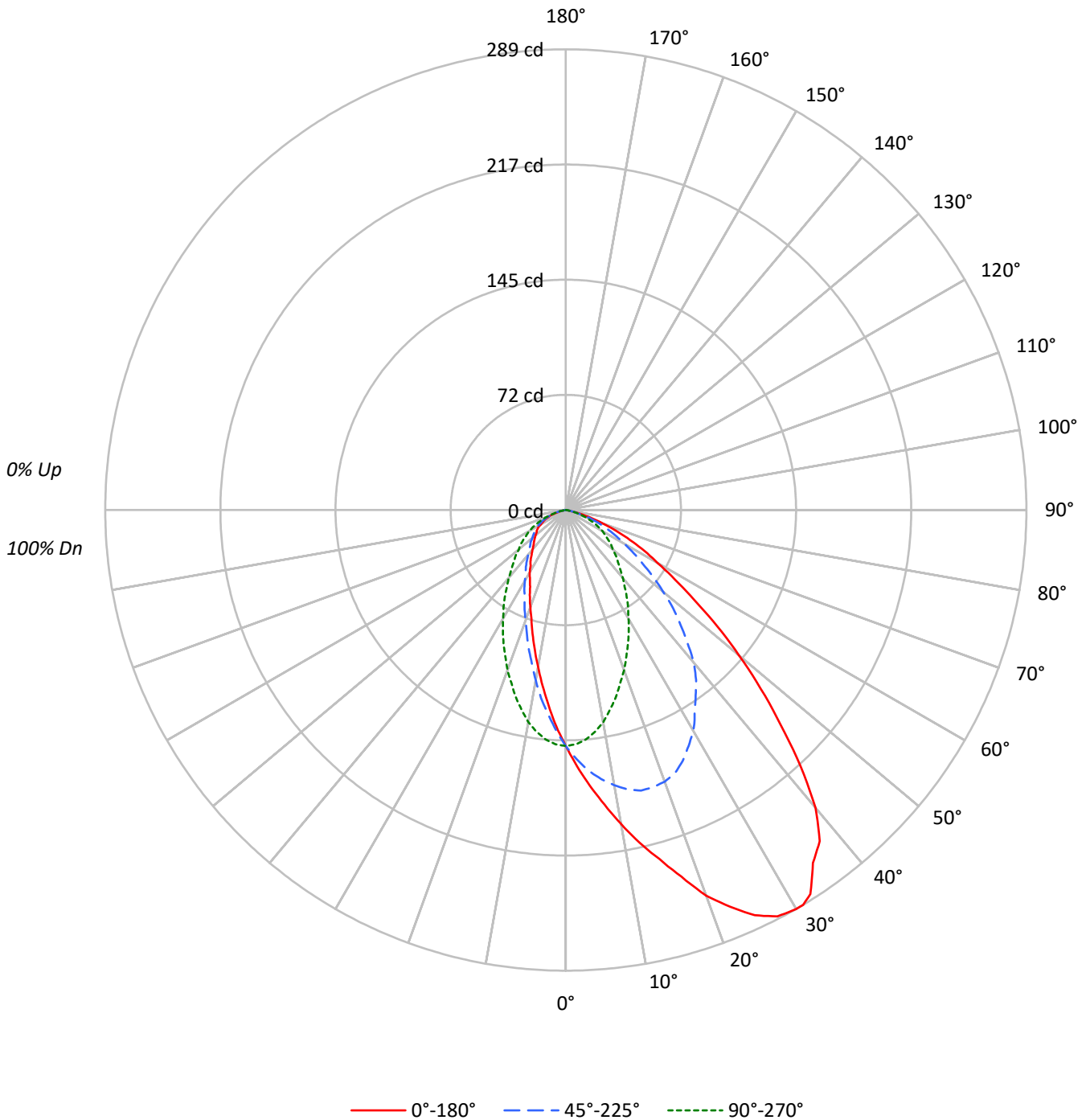
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 301.0 lumens
Efficiency: N/A
Efficacy: 33.4 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): 9
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°	32454	32454	32454	32454	32454
5°	38213	36143	31807	28241	27119
10°	44555	39033	30082	24181	22289
15°	51442	41362	27560	20386	18252
20°	60065	42307	24946	17151	15168
25°	67867	42002	22356	14686	12823
30°	73201	40487	19927	12989	11470
35°	72357	38012	17855	11671	10306
40°	69759	35753	15916	10534	9303
45°	59138	31569	14327	9799	8745
50°	48442	27121	13134	9347	8460
55°	37619	22556	12425	9137	8487
60°	29252	18770	11622	8991	7894
65°	23089	15514	10222	8406	7524
70°	15900	11540	8207	7117	6604
75°	7964	6524	5761	5083	4321
80°	1137	2147	3283	2147	1137
85°	0	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 59138 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.8	4.6
10°-20°	38.5	12.8
20°-30°	56.8	18.9
30°-40°	63.7	21.2
40°-50°	56.0	18.6
50°-60°	40.1	13.3
60°-70°	23.7	7.9
70°-80°	8.0	2.6
80°-90°	0.4	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°	109.2	36.3
0°-40°	172.9	57.4
0°-60°	268.9	89.3
0°-90°	301.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	301.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	148	148	148	148	148	
5°	174	164	144	128	123	17
15°	227	182	121	90	80	65
25°	280	174	92	61	53	129
35°	270	142	67	44	38	170
45°	191	102	46	32	28	148
55°	98	59	32	24	22	90
65°	44	30	20	16	14	44
75°	9	8	7	6	5	11
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°	148.0	148.0	148.0	148.0	148.0	148.0	148.0	148.0	148.0	148.0	148.0
2.5°	160.8	160.8	160.8	159.1	159.1	156.5	154.8	152.2	150.5	148.0	147.1
5°	173.6	173.6	171.9	170.2	167.6	164.2	159.9	155.7	150.5	146.2	144.5
7.5°	186.4	187.3	184.7	181.3	176.2	170.2	164.2	157.4	149.7	143.7	140.3
10°	200.1	200.1	196.7	191.6	183.9	175.3	165.9	156.5	147.1	138.5	135.1
12.5°	213.8	213.0	208.7	201.0	191.6	179.6	166.8	154.8	143.7	133.4	128.3
15°	226.6	226.6	220.6	211.2	197.6	182.2	166.8	151.4	138.5	126.6	121.4
17.5°	241.2	241.2	233.5	218.9	201.8	182.2	164.2	147.1	132.6	119.7	113.7
20°	257.4	256.6	245.4	225.8	203.5	181.3	160.8	142.0	125.7	112.0	106.9
22.5°	269.4	268.5	255.7	231.8	204.4	178.7	154.8	135.1	118.9	105.2	99.2
25°	280.5	278.8	264.3	234.3	202.7	173.6	148.8	127.4	112.0	98.4	92.4
27.5°	287.4	286.5	270.3	233.5	198.4	166.8	141.1	120.6	104.3	90.7	85.5
30°	289.1	289.9	270.3	229.2	191.6	159.9	133.4	112.9	96.6	84.7	78.7
31°	289.1	289.9	268.5	226.6	189.0	156.5	130.0	110.3	93.2	81.2	76.1
32.5°	285.6	283.9	266.0	222.4	183.0	150.5	125.7	106.0	88.9	77.0	72.7
35°	270.3	271.1	257.4	213.0	174.5	142.0	117.2	97.5	81.2	71.0	66.7
37.5°	261.7	261.7	236.9	200.1	165.1	134.3	106.9	88.1	74.4	65.0	60.7
40°	243.7	241.2	218.1	186.4	153.9	124.9	100.9	82.1	68.4	59.0	55.6
42.5°	218.1	215.5	197.6	174.5	139.4	112.9	95.8	72.7	61.6	53.9	50.5
45°	190.7	189.0	175.3	153.9	125.7	101.8	83.0	66.7	56.4	48.7	46.2
47.5°	165.9	163.3	153.1	136.8	113.7	91.5	71.8	59.9	50.5	44.5	42.8
50°	142.0	141.1	132.6	119.7	100.9	79.5	63.3	53.0	46.2	41.1	38.5
52.5°	119.7	118.0	113.7	103.5	88.1	69.3	55.6	47.0	41.1	37.6	35.9
55°	98.4	98.4	94.1	87.2	75.3	59.0	48.7	41.9	36.8	34.2	32.5
57.5°	81.2	81.2	77.8	73.5	62.4	50.5	42.8	36.8	33.4	30.8	29.1
60°	66.7	66.7	64.1	59.9	52.2	42.8	36.8	32.5	29.9	27.4	26.5
62.5°	55.6	54.7	53.0	48.7	42.8	35.9	31.6	28.2	25.7	23.9	23.1
65°	44.5	43.6	41.9	38.5	34.2	29.9	26.5	23.9	22.2	20.5	19.7
67.5°	34.2	34.2	32.5	29.9	26.5	23.9	21.4	19.7	18.0	17.1	16.2
70°	24.8	24.8	23.9	22.2	19.7	18.0	16.2	15.4	14.5	13.7	12.8
72.5°	17.1	17.1	16.2	15.4	13.7	12.8	11.1	11.1	10.3	10.3	9.4
75°	9.4	9.4	9.4	8.6	8.6	7.7	7.7	7.7	6.8	6.8	6.8
77.5°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
80°	0.9	0.9	0.9	0.9	1.7	1.7	1.7	1.7	2.6	2.6	2.6
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9	0.9
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°	148.0	148.0	148.0	148.0	148.0	148.0	148.0	148.0	148.0	148.0
2.5°	146.2	143.7	142.0	141.1	138.5	137.7	136.8	136.0	136.0	136.0
5°	142.8	138.5	134.3	131.7	128.3	126.6	124.9	124.0	123.2	123.2
7.5°	136.8	131.7	126.6	122.3	118.9	115.5	113.7	112.0	112.0	111.2
10°	130.8	124.0	118.0	112.0	108.6	104.3	102.6	100.9	100.1	100.1
12.5°	124.0	115.5	108.6	103.5	98.4	94.9	92.4	90.7	89.8	89.8
15°	116.3	107.8	100.1	94.9	89.8	85.5	83.0	81.2	80.4	80.4
17.5°	108.6	100.1	91.5	86.4	81.2	77.0	75.3	73.5	72.7	71.8
20°	101.8	91.5	84.7	77.8	73.5	70.1	67.6	65.9	65.0	65.0
22.5°	94.1	84.7	77.0	71.8	67.6	64.1	60.7	59.9	59.0	59.0
25°	86.4	77.8	71.0	65.9	60.7	58.2	55.6	53.9	53.9	53.0
27.5°	80.4	71.8	65.0	59.9	56.4	53.0	51.3	49.6	48.7	48.7
30°	73.5	65.9	59.9	55.6	51.3	48.7	47.0	45.3	45.3	45.3
31°	71.8	64.1	58.2	53.0	49.6	47.0	45.3	44.5	43.6	43.6
32.5°	67.6	60.7	54.7	50.5	47.0	44.5	42.8	41.9	41.9	41.1
35°	62.4	55.6	50.5	46.2	43.6	41.1	39.3	38.5	38.5	38.5
37.5°	57.3	51.3	46.2	42.8	40.2	37.6	36.8	35.1	35.1	35.1
40°	52.2	47.0	42.8	39.3	36.8	35.1	34.2	33.4	32.5	32.5
42.5°	47.9	42.8	39.3	36.8	34.2	32.5	31.6	30.8	30.8	29.9
45°	43.6	39.3	36.8	34.2	31.6	30.8	29.9	29.1	28.2	28.2
47.5°	40.2	36.8	33.4	31.6	29.9	28.2	27.4	27.4	26.5	26.5
50°	36.8	33.4	30.8	29.1	27.4	26.5	25.7	25.7	24.8	24.8
52.5°	34.2	30.8	29.1	27.4	25.7	24.8	23.9	23.9	23.1	23.1
55°	30.8	28.2	26.5	25.7	23.9	23.1	22.2	21.4	21.4	22.2
57.5°	28.2	26.5	24.8	23.9	22.2	21.4	20.5	20.5	19.7	20.5
60°	25.7	23.9	22.2	21.4	20.5	19.7	18.8	18.0	18.0	18.0
62.5°	23.1	21.4	20.5	18.8	18.0	18.0	17.1	17.1	17.1	16.2
65°	19.7	18.8	18.0	17.1	16.2	15.4	15.4	14.5	14.5	14.5
67.5°	16.2	15.4	14.5	14.5	13.7	12.8	12.8	12.8	12.8	12.0
70°	12.8	12.0	12.0	11.1	11.1	11.1	10.3	10.3	10.3	10.3
72.5°	9.4	9.4	8.6	8.6	8.6	8.6	7.7	7.7	7.7	7.7
75°	6.8	6.8	6.8	6.0	6.0	6.0	5.1	5.1	5.1	5.1
77.5°	4.3	4.3	4.3	4.3	4.3	3.4	3.4	3.4	3.4	3.4
80°	2.6	2.6	2.6	2.6	1.7	1.7	1.7	1.7	1.7	0.9
82.5°	0.9	0.9	0.9	0.9	0.9	0.9	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)