

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: P3ART17R70W2N902750DE010 E3LCWW1H_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: P3ART17R70W2N902750DE010 E3LCWW1H_4000K
Description: 3in Adjustable Tunable White LED luminaire with, R70 optic, 4000K CCT AND, 90CRI ,
E3LCWW1H TRIM
Light Source: -
Ballast/Driver: -

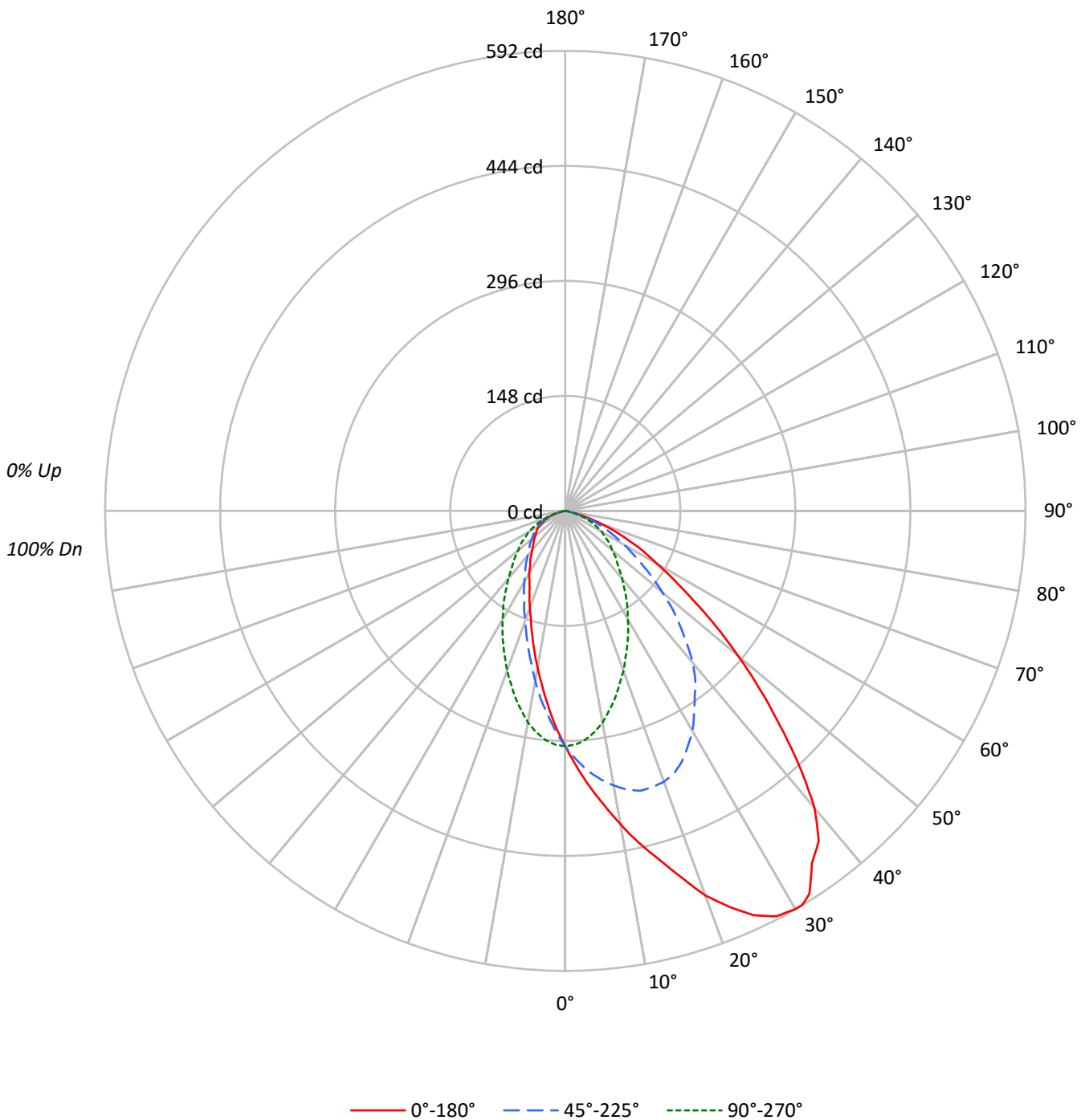
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 616.1 lumens
Efficiency: N/A
Efficacy: 31.8 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): 19.4
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	102	102	102	100
1	111	107	103	100	108	105	102	99	101	98	96	97	95	93	93	92	90	90	90	90	88
2	102	95	90	85	100	93	88	84	90	86	82	87	83	80	84	81	78	78	78	78	76
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	68	68	68	66
4	87	77	69	63	85	75	68	62	73	67	62	71	65	61	69	64	60	60	60	60	58
5	81	69	61	55	79	68	61	55	66	59	54	64	58	54	62	57	53	53	53	53	51
6	75	63	55	49	73	62	54	49	60	53	48	59	53	48	57	52	47	47	47	47	46
7	70	57	49	44	68	57	49	44	55	48	43	54	48	43	52	47	43	43	43	43	41
8	65	53	45	39	64	52	45	39	51	44	39	50	43	39	48	43	39	39	39	39	37
9	61	49	41	36	60	48	41	36	47	40	36	46	40	35	45	39	35	35	35	35	34
10	57	45	38	33	56	45	37	33	44	37	33	43	37	32	42	36	32	32	32	32	31

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	66398	66398	66398	66398	66398
5°	78208	73960	65111	57781	55470
10°	91203	79892	61566	49498	45601
15°	105290	84632	56413	41726	37344
20°	122931	86574	51058	35120	31036
25°	138903	85965	45728	30074	26252
30°	149795	82874	40766	26586	23497
35°	148061	77765	36540	23905	21094
40°	142782	73137	32575	21555	19036
45°	121036	64596	29305	20095	17924
50°	99101	55538	26882	19104	17330
55°	76958	46182	25423	18733	17395
60°	59864	38374	23814	18420	16139
65°	47216	31806	20910	17278	15462
70°	32570	23594	16862	14618	13464
75°	16352	13386	11861	10421	8896
80°	2273	4420	6693	4420	2273
85°	0	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 121036 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.3	4.6
10°-20°	78.9	12.8
20°-30°	116.3	18.9
30°-40°	130.3	21.2
40°-50°	114.6	18.6
50°-60°	82.0	13.3
60°-70°	48.6	7.9
70°-80°	16.3	2.6
80°-90°	0.8	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°	223.5	36.3
0°-40°	353.8	57.4
0°-60°	550.4	89.3
0°-90°	616.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	616.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	303	303	303	303	303	
5°	355	336	296	262	252	36
15°	464	373	248	184	164	134
25°	574	355	189	124	108	264
35°	553	290	136	89	79	347
45°	390	208	94	65	58	302
55°	201	121	66	49	46	184
65°	91	61	40	33	30	91
75°	19	16	14	12	10	23
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P#
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	302.8	302.8	302.8	302.8	302.8	302.8	302.8	302.8	302.8	302.8	302.8
2.5°	329.0	329.0	329.0	325.5	325.5	320.3	316.8	311.5	308.0	302.8	301.0
5°	355.3	355.3	351.8	348.3	343.0	336.0	327.3	318.5	308.0	299.3	295.8
7.5°	381.6	383.3	378.0	371.0	360.5	348.3	336.0	322.0	306.3	294.0	287.0
10°	409.6	409.6	402.6	392.1	376.3	358.8	339.5	320.3	301.0	283.5	276.5
12.5°	437.6	435.8	427.1	411.3	392.1	367.5	341.3	316.8	294.0	273.0	262.5
15°	463.8	463.8	451.6	432.3	404.3	372.8	341.3	309.8	283.5	259.0	248.5
17.5°	493.6	493.6	477.8	448.1	413.1	372.8	336.0	301.0	271.3	245.0	232.8
20°	526.8	525.1	502.3	462.1	416.6	371.0	329.0	290.5	257.3	229.3	218.8
22.5°	551.3	549.6	523.3	474.3	418.3	365.8	316.8	276.5	243.3	215.3	203.0
25°	574.1	570.6	540.8	479.6	414.8	355.3	304.5	260.8	229.3	201.3	189.0
27.5°	588.1	586.3	553.1	477.8	406.1	341.3	288.8	246.8	213.5	185.5	175.0
30°	591.6	593.3	553.1	469.1	392.1	327.3	273.0	231.0	197.8	173.3	161.0
31°	591.6	593.3	549.6	463.8	386.8	320.3	266.0	225.8	190.8	166.3	155.8
32.5°	584.6	581.1	544.3	455.1	374.5	308.0	257.3	217.0	182.0	157.5	148.8
35°	553.1	554.8	526.8	435.8	357.0	290.5	239.8	199.5	166.3	145.3	136.5
37.5°	535.6	535.6	484.8	409.6	337.8	274.8	218.8	180.3	152.3	133.0	124.3
40°	498.8	493.6	446.3	381.6	315.0	255.5	206.5	168.0	140.0	120.8	113.8
42.5°	446.3	441.1	404.3	357.0	285.3	231.0	196.0	148.8	126.0	110.3	103.3
45°	390.3	386.8	358.8	315.0	257.3	208.3	169.8	136.5	115.5	99.8	94.5
47.5°	339.5	334.3	313.3	280.0	232.8	187.3	147.0	122.5	103.3	91.0	87.5
50°	290.5	288.8	271.3	245.0	206.5	162.8	129.5	108.5	94.5	84.0	78.8
52.5°	245.0	241.5	232.8	211.8	180.3	141.8	113.8	96.3	84.0	77.0	73.5
55°	201.3	201.3	192.5	178.5	154.0	120.8	99.8	85.8	75.3	70.0	66.5
57.5°	166.3	166.3	159.3	150.5	127.8	103.3	87.5	75.3	68.3	63.0	59.5
60°	136.5	136.5	131.3	122.5	106.8	87.5	75.3	66.5	61.3	56.0	54.3
62.5°	113.8	112.0	108.5	99.8	87.5	73.5	64.8	57.8	52.5	49.0	47.3
65°	91.0	89.3	85.8	78.8	70.0	61.3	54.3	49.0	45.5	42.0	40.3
67.5°	70.0	70.0	66.5	61.3	54.3	49.0	43.8	40.3	36.8	35.0	33.3
70°	50.8	50.8	49.0	45.5	40.3	36.8	33.3	31.5	29.8	28.0	26.3
72.5°	35.0	35.0	33.3	31.5	28.0	26.3	22.8	22.8	21.0	21.0	19.3
75°	19.3	19.3	19.3	17.5	17.5	15.8	15.8	15.8	14.0	14.0	14.0
77.5°	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8
80°	1.8	1.8	1.8	1.8	3.5	3.5	3.5	3.5	5.3	5.3	5.3
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8	1.8	1.8	1.8
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°	302.8	302.8	302.8	302.8	302.8	302.8	302.8	302.8	302.8	302.8
2.5°	299.3	294.0	290.5	288.8	283.5	281.8	280.0	278.3	278.3	278.3
5°	292.3	283.5	274.8	269.5	262.5	259.0	255.5	253.8	252.0	252.0
7.5°	280.0	269.5	259.0	250.3	243.3	236.3	232.8	229.3	229.3	227.5
10°	267.8	253.8	241.5	229.3	222.3	213.5	210.0	206.5	204.8	204.8
12.5°	253.8	236.3	222.3	211.8	201.3	194.3	189.0	185.5	183.8	183.8
15°	238.0	220.5	204.8	194.3	183.8	175.0	169.8	166.3	164.5	164.5
17.5°	222.3	204.8	187.3	176.8	166.3	157.5	154.0	150.5	148.8	147.0
20°	208.3	187.3	173.3	159.3	150.5	143.5	138.3	134.8	133.0	133.0
22.5°	192.5	173.3	157.5	147.0	138.3	131.3	124.3	122.5	120.8	120.8
25°	176.8	159.3	145.3	134.8	124.3	119.0	113.8	110.3	110.3	108.5
27.5°	164.5	147.0	133.0	122.5	115.5	108.5	105.0	101.5	99.8	99.8
30°	150.5	134.8	122.5	113.8	105.0	99.8	96.3	92.8	92.8	92.8
31°	147.0	131.3	119.0	108.5	101.5	96.3	92.8	91.0	89.3	89.3
32.5°	138.3	124.3	112.0	103.3	96.3	91.0	87.5	85.8	85.8	84.0
35°	127.8	113.8	103.3	94.5	89.3	84.0	80.5	78.8	78.8	78.8
37.5°	117.3	105.0	94.5	87.5	82.3	77.0	75.3	71.8	71.8	71.8
40°	106.8	96.3	87.5	80.5	75.3	71.8	70.0	68.3	66.5	66.5
42.5°	98.0	87.5	80.5	75.3	70.0	66.5	64.8	63.0	63.0	61.3
45°	89.3	80.5	75.3	70.0	64.8	63.0	61.3	59.5	57.8	57.8
47.5°	82.3	75.3	68.3	64.8	61.3	57.8	56.0	56.0	54.3	54.3
50°	75.3	68.3	63.0	59.5	56.0	54.3	52.5	52.5	50.8	50.8
52.5°	70.0	63.0	59.5	56.0	52.5	50.8	49.0	49.0	47.3	47.3
55°	63.0	57.8	54.3	52.5	49.0	47.3	45.5	43.8	43.8	45.5
57.5°	57.8	54.3	50.8	49.0	45.5	43.8	42.0	42.0	40.3	42.0
60°	52.5	49.0	45.5	43.8	42.0	40.3	38.5	36.8	36.8	36.8
62.5°	47.3	43.8	42.0	38.5	36.8	36.8	35.0	35.0	35.0	33.3
65°	40.3	38.5	36.8	35.0	33.3	31.5	31.5	29.8	29.8	29.8
67.5°	33.3	31.5	29.8	29.8	28.0	26.3	26.3	26.3	26.3	24.5
70°	26.3	24.5	24.5	22.8	22.8	22.8	21.0	21.0	21.0	21.0
72.5°	19.3	19.3	17.5	17.5	17.5	17.5	15.8	15.8	15.8	15.8
75°	14.0	14.0	14.0	12.3	12.3	12.3	10.5	10.5	10.5	10.5
77.5°	8.8	8.8	8.8	8.8	8.8	7.0	7.0	7.0	7.0	7.0
80°	5.3	5.3	5.3	5.3	3.5	3.5	3.5	3.5	3.5	1.8
82.5°	1.8	1.8	1.8	1.8	1.8	1.8	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)