

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 E3CLSWW1MB_5000K

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 (G1-2509-551-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/8/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3ART17R70W2N902750DE010 E3CLSWW1MB_5000K
Description: 3in Adjustable Tunable White LED luminaire with, R70 optic, 5000K CCT AND, 90CRI ,
E3CLSWW1MB TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 614.0 lumens
Efficiency: N/A
Efficacy: 31.6 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): 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	100				100
1	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89				89
2	103	96	91	86	101	95	89	85	91	87	83	88	85	81	85	82	80	78				78
3	95	87	80	74	93	85	79	74	82	77	72	80	75	71	77	73	70	68				68
4	88	78	70	65	86	77	70	64	74	68	63	72	67	63	70	66	62	60				60
5	82	71	63	57	80	70	62	57	68	61	56	66	60	56	64	59	55	53				53
6	76	64	56	51	74	63	56	51	62	55	50	60	54	50	59	53	49	47				47
7	71	59	51	45	69	58	51	45	57	50	45	55	49	45	54	49	44	43				43
8	66	54	46	41	65	53	46	41	52	46	41	51	45	41	50	44	40	39				39
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35				35
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32				32

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	67582	67582	67582	67582	67582
5°	83183	77438	65925	57891	54809
10°	101601	87240	62034	48073	44199
15°	123338	95665	56527	39932	35573
20°	138169	101602	50381	32506	28843
25°	147057	102804	44664	26977	22743
30°	150808	99661	39247	22940	19395
35°	145919	96503	34506	19568	16784
40°	133593	90713	30400	17461	14942
45°	118276	75605	27011	16188	13490
50°	98010	64748	23777	14840	12486
55°	73899	53943	21982	13992	11316
60°	58066	40479	19867	12981	9911
65°	43377	29835	17174	10844	8146
70°	27889	18978	12310	7822	4488
75°	11777	10336	5931	2965	1440
80°	2147	2147	0	0	0
85°	0	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 118276 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.2	4.8
10°-20°	84.2	13.7
20°-30°	123.1	20.0
30°-40°	134.1	21.8
40°-50°	116.0	18.9
50°-60°	77.7	12.7
60°-70°	40.1	6.5
70°-80°	9.5	1.5
80°-90°	0.1	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°	236.5	38.5
0°-40°	370.5	60.3
0°-60°	564.3	91.9
0°-90°	614.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	614.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	308	308	308	308	308	
5°	378	352	300	263	249	39
15°	543	421	249	176	157	154
25°	608	425	185	112	94	279
35°	545	360	129	73	63	338
45°	381	244	87	52	44	292
55°	193	141	58	37	30	179
65°	84	58	33	21	16	84
75°	14	12	7	4	2	18
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°	308.2	308.2	308.2	308.2	308.2	308.2	308.2	308.2	308.2	308.2	308.2
2.5°	343.1	341.3	341.3	337.8	334.4	330.9	325.7	320.4	315.2	310.0	306.5
5°	377.9	379.6	377.9	370.9	362.2	351.8	341.3	329.1	316.9	306.5	299.5
7.5°	418.0	418.0	412.7	404.0	391.8	374.4	357.0	336.1	316.9	299.5	290.8
10°	456.3	456.3	447.6	433.6	414.5	391.8	367.4	339.6	313.5	289.1	278.6
12.5°	503.3	501.5	491.1	468.5	440.6	407.5	374.4	339.6	308.2	278.6	264.7
15°	543.3	541.6	527.7	499.8	463.2	421.4	376.2	336.1	297.8	264.7	249.0
17.5°	572.9	569.5	553.8	524.2	482.4	430.1	377.9	329.1	285.6	249.0	233.4
20°	592.1	590.4	572.9	538.1	492.8	435.4	376.2	320.4	273.4	233.4	215.9
22.5°	604.3	600.8	583.4	545.1	492.8	433.6	369.2	308.2	257.7	217.7	200.3
25°	607.8	606.0	585.1	543.3	487.6	424.9	358.7	296.0	242.1	202.0	184.6
26°	607.8	606.0	585.1	541.6	484.1	419.7	353.5	290.8	236.8	195.0	179.4
27.5°	606.0	604.3	581.6	536.4	477.2	411.0	343.1	280.4	226.4	186.3	168.9
30°	595.6	592.1	569.5	524.2	461.5	393.6	325.7	264.7	210.7	170.7	155.0
32.5°	572.9	569.5	545.1	503.3	444.1	374.4	306.5	247.3	195.0	155.0	141.1
35°	545.1	541.6	517.2	477.2	419.7	360.5	285.6	228.1	177.6	142.8	128.9
37.5°	510.2	505.0	484.1	442.3	390.1	344.8	268.2	209.0	162.0	128.9	116.7
40°	466.7	465.0	445.8	407.5	355.3	316.9	257.7	209.0	148.0	116.7	106.2
42.5°	424.9	421.4	404.0	370.9	323.9	276.9	226.4	200.3	137.6	104.5	95.8
45°	381.4	377.9	362.2	334.4	290.8	243.8	243.8	172.4	118.4	95.8	87.1
47.5°	334.4	330.9	318.7	297.8	259.5	217.7	177.6	141.1	108.0	85.3	78.4
50°	287.3	289.1	278.6	257.7	228.1	189.8	153.2	118.4	92.3	76.6	69.7
52.5°	240.3	238.6	231.6	217.7	196.8	163.7	130.6	101.0	80.1	67.9	64.4
55°	193.3	195.0	191.6	182.9	165.4	141.1	109.7	87.1	71.4	61.0	57.5
57.5°	160.2	162.0	155.0	149.8	135.8	114.9	90.6	73.1	61.0	54.0	50.5
60°	132.4	134.1	128.9	121.9	111.5	92.3	73.1	61.0	54.0	48.8	45.3
62.5°	108.0	106.2	102.7	95.8	87.1	73.1	59.2	50.5	45.3	41.8	40.1
65°	83.6	83.6	80.1	74.9	67.9	57.5	47.0	41.8	38.3	34.8	33.1
67.5°	62.7	62.7	59.2	55.7	48.8	41.8	36.6	33.1	31.3	27.9	26.1
70°	43.5	43.5	41.8	40.1	34.8	29.6	27.9	24.4	22.6	20.9	19.2
72.5°	27.9	27.9	27.9	24.4	22.6	19.2	19.2	17.4	15.7	13.9	13.9
75°	13.9	15.7	13.9	13.9	12.2	12.2	10.4	10.4	8.7	8.7	7.0
77.5°	5.2	5.2	5.2	5.2	5.2	5.2	3.5	3.5	3.5	3.5	3.5
80°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	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°	308.2	308.2	308.2	308.2	308.2	308.2	308.2	308.2	308.2	308.2
2.5°	303.0	297.8	294.3	289.1	285.6	282.1	280.4	278.6	278.6	278.6
5°	294.3	285.6	276.9	268.2	263.0	257.7	252.5	250.8	249.0	249.0
7.5°	283.9	269.9	257.7	247.3	238.6	233.4	228.1	224.6	222.9	222.9
10°	269.9	252.5	238.6	224.6	215.9	209.0	205.5	200.3	200.3	198.5
12.5°	254.3	233.4	217.7	205.5	196.8	188.1	182.9	179.4	177.6	177.6
15°	236.8	215.9	198.5	184.6	175.9	167.2	162.0	158.5	156.7	156.7
17.5°	219.4	196.8	179.4	165.4	156.7	148.0	142.8	139.3	139.3	137.6
20°	202.0	179.4	162.0	148.0	139.3	132.4	127.1	123.6	121.9	123.6
22.5°	186.3	163.7	146.3	134.1	123.6	116.7	111.5	109.7	108.0	108.0
25°	168.9	148.0	132.4	120.2	111.5	104.5	99.3	97.5	95.8	94.0
26°	163.7	142.8	127.1	114.9	106.2	99.3	95.8	92.3	90.6	90.6
27.5°	156.7	134.1	120.2	108.0	99.3	94.0	88.8	87.1	85.3	85.3
30°	141.1	121.9	108.0	97.5	90.6	83.6	80.1	78.4	76.6	76.6
32.5°	128.9	109.7	97.5	88.8	81.8	76.6	73.1	69.7	69.7	69.7
35°	116.7	99.3	88.8	80.1	73.1	67.9	66.2	64.4	62.7	62.7
37.5°	106.2	90.6	80.1	73.1	67.9	62.7	59.2	57.5	57.5	57.5
40°	95.8	83.6	73.1	66.2	61.0	57.5	54.0	52.2	52.2	52.2
42.5°	87.1	74.9	67.9	61.0	55.7	52.2	50.5	48.8	47.0	47.0
45°	80.1	69.7	61.0	55.7	52.2	48.8	45.3	43.5	43.5	43.5
47.5°	71.4	64.4	55.7	50.5	47.0	43.5	41.8	40.1	40.1	40.1
50°	66.2	59.2	52.2	47.0	43.5	40.1	38.3	36.6	36.6	36.6
52.5°	59.2	54.0	48.8	43.5	40.1	36.6	34.8	33.1	33.1	33.1
55°	54.0	48.8	43.5	40.1	36.6	33.1	31.3	29.6	29.6	29.6
57.5°	48.8	43.5	40.1	36.6	33.1	31.3	27.9	27.9	26.1	26.1
60°	43.5	38.3	34.8	33.1	29.6	27.9	24.4	22.6	22.6	22.6
62.5°	36.6	34.8	31.3	27.9	24.4	22.6	20.9	19.2	19.2	19.2
65°	31.3	29.6	26.1	22.6	20.9	19.2	17.4	15.7	15.7	15.7
67.5°	26.1	22.6	20.9	19.2	17.4	15.7	13.9	12.2	10.4	12.2
70°	19.2	17.4	15.7	13.9	12.2	10.4	8.7	8.7	7.0	7.0
72.5°	12.2	10.4	10.4	8.7	7.0	7.0	5.2	5.2	3.5	3.5
75°	7.0	7.0	5.2	5.2	3.5	3.5	1.7	1.7	1.7	1.7
77.5°	3.5	1.7	1.7	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)