

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 E3CLSWW1MW_3500K

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 E3CLSWW1MW_3500K
Description: 3in Adjustable Tunable White LED luminaire with, R70 optic, 3500K CCT AND, 90CRI ,
E3CLSWW1MW TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 616.9 lumens
Efficiency: N/A
Efficacy: 31.8 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	90	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°	67911	67911	67911	67911	67911
5°	83579	77812	66256	58155	55074
10°	102091	87663	62346	48318	44421
15°	123951	96141	56799	40114	35755
20°	138845	102092	50638	32670	28983
25°	147759	103312	44882	27098	22864
30°	151542	100142	39424	23042	19497
35°	146615	96958	34666	19675	16865
40°	134252	91171	30543	17519	15028
45°	118834	75977	27135	16281	13552
50°	98487	65055	23880	14908	12520
55°	74243	54173	22059	14031	11354
60°	58329	40655	19955	13025	9955
65°	43584	29938	17226	10896	8146
70°	28018	19042	12310	7822	4488
75°	11861	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: 118834 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.4	4.8
10°-20°	84.6	13.7
20°-30°	123.6	20.0
30°-40°	134.7	21.8
40°-50°	116.6	18.9
50°-60°	78.1	12.7
60°-70°	40.3	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°	237.6	38.5
0°-40°	372.3	60.4
0°-60°	567.0	91.9
0°-90°	616.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	616.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	310	310	310	310	310	
5°	380	354	301	264	250	39
15°	546	424	250	177	158	155
25°	611	427	186	112	94	281
35°	548	362	130	74	63	339
45°	383	245	88	52	44	293
55°	194	142	58	37	30	180
65°	84	58	33	21	16	85
75°	14	12	7	4	2	18
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°	309.7	309.7	309.7	309.7	309.7	309.7	309.7	309.7	309.7	309.7	309.7
2.5°	344.7	343.0	343.0	339.5	336.0	332.5	327.2	322.0	316.7	311.5	308.0
5°	379.7	381.5	379.7	372.7	364.0	353.5	343.0	330.7	318.5	308.0	301.0
7.5°	420.0	420.0	414.7	406.0	393.7	376.2	358.7	337.7	318.5	301.0	292.2
10°	458.5	458.5	449.7	435.7	416.5	393.7	369.2	341.2	315.0	290.5	280.0
12.5°	505.7	504.0	493.5	470.7	442.7	409.5	376.2	341.2	309.7	280.0	266.0
15°	546.0	544.2	530.2	502.2	465.5	423.5	378.0	337.7	299.2	266.0	250.2
17.5°	575.7	572.2	556.5	526.7	484.7	432.2	379.7	330.7	287.0	250.2	234.5
20°	595.0	593.2	575.7	540.7	495.2	437.5	378.0	322.0	274.7	234.5	217.0
22.5°	607.2	603.7	586.2	547.7	495.2	435.7	371.0	309.7	259.0	218.7	201.2
25°	610.7	609.0	588.0	546.0	490.0	427.0	360.5	297.5	243.2	203.0	185.5
26°	610.7	609.0	588.0	544.2	486.5	421.7	355.2	292.2	238.0	196.0	180.2
27.5°	609.0	607.2	584.5	539.0	479.5	413.0	344.7	281.7	227.5	187.2	169.7
30°	598.5	595.0	572.2	526.7	463.7	395.5	327.2	266.0	211.7	171.5	155.7
32.5°	575.7	572.2	547.7	505.7	446.2	376.2	308.0	248.5	196.0	155.7	141.7
35°	547.7	544.2	519.7	479.5	421.7	362.2	287.0	229.2	178.5	143.5	129.5
37.5°	512.7	507.5	486.5	444.5	392.0	346.5	269.5	210.0	162.7	129.5	117.2
40°	469.0	467.2	448.0	409.5	357.0	318.5	259.0	210.0	148.7	117.2	106.7
42.5°	427.0	423.5	406.0	372.7	325.5	278.2	227.5	201.2	138.2	105.0	96.2
45°	383.2	379.7	364.0	336.0	292.2	245.0	245.0	173.2	119.0	96.2	87.5
47.5°	336.0	332.5	320.2	299.2	260.7	218.7	178.5	141.7	108.5	85.7	78.7
50°	288.7	290.5	280.0	259.0	229.2	190.7	154.0	119.0	92.7	77.0	70.0
52.5°	241.5	239.7	232.7	218.7	197.7	164.5	131.2	101.5	80.5	68.2	64.7
55°	194.2	196.0	192.5	183.7	166.2	141.7	110.2	87.5	71.7	61.2	57.7
57.5°	161.0	162.7	155.7	150.5	136.5	115.5	91.0	73.5	61.2	54.2	50.7
60°	133.0	134.7	129.5	122.5	112.0	92.7	73.5	61.2	54.2	49.0	45.5
62.5°	108.5	106.7	103.2	96.2	87.5	73.5	59.5	50.7	45.5	42.0	40.2
65°	84.0	84.0	80.5	75.2	68.2	57.7	47.2	42.0	38.5	35.0	33.2
67.5°	63.0	63.0	59.5	56.0	49.0	42.0	36.7	33.2	31.5	28.0	26.2
70°	43.7	43.7	42.0	40.2	35.0	29.7	28.0	24.5	22.7	21.0	19.2
72.5°	28.0	28.0	28.0	24.5	22.7	19.2	19.2	17.5	15.7	14.0	14.0
75°	14.0	15.7	14.0	14.0	12.2	12.2	10.5	10.5	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°	309.7	309.7	309.7	309.7	309.7	309.7	309.7	309.7	309.7	309.7
2.5°	304.5	299.2	295.7	290.5	287.0	283.5	281.7	280.0	280.0	280.0
5°	295.7	287.0	278.2	269.5	264.2	259.0	253.7	252.0	250.2	250.2
7.5°	285.2	271.2	259.0	248.5	239.7	234.5	229.2	225.7	224.0	224.0
10°	271.2	253.7	239.7	225.7	217.0	210.0	206.5	201.2	201.2	199.5
12.5°	255.5	234.5	218.7	206.5	197.7	189.0	183.7	180.2	178.5	178.5
15°	238.0	217.0	199.5	185.5	176.7	168.0	162.7	159.2	157.5	157.5
17.5°	220.5	197.7	180.2	166.2	157.5	148.7	143.5	140.0	140.0	138.2
20°	203.0	180.2	162.7	148.7	140.0	133.0	127.7	124.2	122.5	124.2
22.5°	187.2	164.5	147.0	134.7	124.2	117.2	112.0	110.2	108.5	108.5
25°	169.7	148.7	133.0	120.7	112.0	105.0	99.7	98.0	96.2	94.5
26°	164.5	143.5	127.7	115.5	106.7	99.7	96.2	92.7	91.0	91.0
27.5°	157.5	134.7	120.7	108.5	99.7	94.5	89.2	87.5	85.7	85.7
30°	141.7	122.5	108.5	98.0	91.0	84.0	80.5	78.7	77.0	77.0
32.5°	129.5	110.2	98.0	89.2	82.2	77.0	73.5	70.0	70.0	70.0
35°	117.2	99.7	89.2	80.5	73.5	68.2	66.5	64.7	63.0	63.0
37.5°	106.7	91.0	80.5	73.5	68.2	63.0	59.5	57.7	57.7	57.7
40°	96.2	84.0	73.5	66.5	61.2	57.7	54.2	52.5	52.5	52.5
42.5°	87.5	75.2	68.2	61.2	56.0	52.5	50.7	49.0	47.2	47.2
45°	80.5	70.0	61.2	56.0	52.5	49.0	45.5	43.7	43.7	43.7
47.5°	71.7	64.7	56.0	50.7	47.2	43.7	42.0	40.2	40.2	40.2
50°	66.5	59.5	52.5	47.2	43.7	40.2	38.5	36.7	36.7	36.7
52.5°	59.5	54.2	49.0	43.7	40.2	36.7	35.0	33.2	33.2	33.2
55°	54.2	49.0	43.7	40.2	36.7	33.2	31.5	29.7	29.7	29.7
57.5°	49.0	43.7	40.2	36.7	33.2	31.5	28.0	28.0	26.2	26.2
60°	43.7	38.5	35.0	33.2	29.7	28.0	24.5	22.7	22.7	22.7
62.5°	36.7	35.0	31.5	28.0	24.5	22.7	21.0	19.2	19.2	19.2
65°	31.5	29.7	26.2	22.7	21.0	19.2	17.5	15.7	15.7	15.7
67.5°	26.2	22.7	21.0	19.2	17.5	15.7	14.0	12.2	10.5	12.2
70°	19.2	17.5	15.7	14.0	12.2	10.5	8.7	8.7	7.0	7.0
72.5°	12.2	10.5	10.5	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)