

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: P3ART13R70W2N902765DE010 E3CLSWW1MW_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 (G1-2509-551-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/8/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3ART13R70W2N902765DE010 E3CLSWW1MW_4000K
Description: 3in Adjustable Tunable White LED luminaire with, R70 optic, 4000K CCT AND, 90CRI ,
E3CLSWW1MW TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 395.0 lumens
Efficiency: N/A
Efficacy: 32.1 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): 12.3
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°	43483	43483	43483	43483	43483
5°	53511	49813	42417	37244	35263
10°	65352	56133	39924	30928	28434
15°	79342	61544	36368	25698	22883
20°	88884	65362	32413	20908	18552
25°	94602	66149	28744	17348	14638
30°	97028	64111	25244	14762	12483
35°	93880	62078	22192	12608	10788
40°	85932	58366	19551	11221	9618
45°	76101	48625	17366	10420	8683
50°	63077	41653	15283	9552	8017
55°	47559	34675	14145	8984	7264
60°	37322	26051	12762	8333	6403
65°	27915	19198	11052	6953	5241
70°	17952	12182	7886	5001	2885
75°	7625	6608	3813	1864	932
80°	1389	1389	0	0	0
85°	0	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 76101 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	18.8	4.8
10°-20°	54.1	13.7
20°-30°	79.2	20.0
30°-40°	86.3	21.8
40°-50°	74.6	18.9
50°-60°	50.0	12.7
60°-70°	25.8	6.5
70°-80°	6.1	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°	152.1	38.5
0°-40°	238.4	60.3
0°-60°	363.0	91.9
0°-90°	395.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	395.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	198	198	198	198	198	
5°	243	226	193	169	160	25
15°	350	271	160	113	101	99
25°	391	273	119	72	60	180
35°	351	232	83	47	40	217
45°	245	157	56	34	28	188
55°	124	91	37	24	19	115
65°	54	37	21	13	10	54
75°	9	8	4	2	1	12
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°	198.3	198.3	198.3	198.3	198.3	198.3	198.3	198.3	198.3	198.3	198.3
2.5°	220.7	219.6	219.6	217.3	215.1	212.9	209.5	206.1	202.8	199.4	197.2
5°	243.1	244.2	243.1	238.6	233.0	226.3	219.6	211.7	203.9	197.2	192.7
7.5°	268.9	268.9	265.5	259.9	252.1	240.9	229.7	216.2	203.9	192.7	187.1
10°	293.5	293.5	287.9	279.0	266.6	252.1	236.4	218.5	201.7	186.0	179.3
12.5°	323.8	322.7	315.9	301.4	283.4	262.2	240.9	218.5	198.3	179.3	170.3
15°	349.5	348.4	339.5	321.5	298.0	271.1	242.0	216.2	191.6	170.3	160.2
17.5°	368.6	366.3	356.3	337.2	310.3	276.7	243.1	211.7	183.7	160.2	150.1
20°	380.9	379.8	368.6	346.2	317.1	280.1	242.0	206.1	175.9	150.1	138.9
22.5°	388.8	386.5	375.3	350.7	317.1	279.0	237.5	198.3	165.8	140.0	128.8
25°	391.0	389.9	376.4	349.5	313.7	273.4	230.8	190.5	155.7	130.0	118.8
26°	391.0	389.9	376.4	348.4	311.4	270.0	227.4	187.1	152.4	125.5	115.4
27.5°	389.9	388.8	374.2	345.1	307.0	264.4	220.7	180.4	145.6	119.9	108.7
30°	383.2	380.9	366.3	337.2	296.9	253.2	209.5	170.3	135.6	109.8	99.7
32.5°	368.6	366.3	350.7	323.8	285.7	240.9	197.2	159.1	125.5	99.7	90.7
35°	350.7	348.4	332.7	307.0	270.0	231.9	183.7	146.8	114.3	91.9	82.9
37.5°	328.3	324.9	311.4	284.6	251.0	221.8	172.5	134.4	104.2	82.9	75.1
40°	300.2	299.1	286.8	262.2	228.5	203.9	165.8	134.4	95.2	75.1	68.3
42.5°	273.4	271.1	259.9	238.6	208.4	178.1	145.6	128.8	88.5	67.2	61.6
45°	245.4	243.1	233.0	215.1	187.1	156.8	110.9	76.2	61.6	43.7	41.5
47.5°	215.1	212.9	205.0	191.6	166.9	140.0	114.3	90.7	69.5	54.9	50.4
50°	184.9	186.0	179.3	165.8	146.8	122.1	98.6	76.2	59.4	49.3	44.8
52.5°	154.6	153.5	149.0	140.0	126.6	105.3	84.0	65.0	51.5	43.7	41.5
55°	124.4	125.5	123.2	117.6	106.4	90.7	70.6	56.0	45.9	39.2	37.0
57.5°	103.1	104.2	99.7	96.3	87.4	73.9	58.3	47.1	39.2	34.7	32.5
60°	85.1	86.3	82.9	78.4	71.7	59.4	47.1	39.2	34.7	31.4	29.1
62.5°	69.5	68.3	66.1	61.6	56.0	47.1	38.1	32.5	29.1	26.9	25.8
65°	53.8	53.8	51.5	48.2	43.7	37.0	30.2	26.9	24.6	22.4	21.3
67.5°	40.3	40.3	38.1	35.9	31.4	26.9	23.5	21.3	20.2	17.9	16.8
70°	28.0	28.0	26.9	25.8	22.4	19.0	17.9	15.7	14.6	13.4	12.3
72.5°	17.9	17.9	17.9	15.7	14.6	12.3	12.3	11.2	10.1	9.0	9.0
75°	9.0	10.1	9.0	9.0	7.8	7.8	6.7	6.7	5.6	5.6	4.5
77.5°	3.4	3.4	3.4	3.4	3.4	3.4	2.2	2.2	2.2	2.2	2.2
80°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	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°	198.3	198.3	198.3	198.3	198.3	198.3	198.3	198.3	198.3	198.3
2.5°	194.9	191.6	189.3	186.0	183.7	181.5	180.4	179.3	179.3	179.3
5°	189.3	183.7	178.1	172.5	169.2	165.8	162.4	161.3	160.2	160.2
7.5°	182.6	173.7	165.8	159.1	153.5	150.1	146.8	144.5	143.4	143.4
10°	173.7	162.4	153.5	144.5	138.9	134.4	132.2	128.8	128.8	127.7
12.5°	163.6	150.1	140.0	132.2	126.6	121.0	117.6	115.4	114.3	114.3
15°	152.4	138.9	127.7	118.8	113.2	107.6	104.2	101.9	100.8	100.8
17.5°	141.2	126.6	115.4	106.4	100.8	95.2	91.9	89.6	89.6	88.5
20°	130.0	115.4	104.2	95.2	89.6	85.1	81.8	79.5	78.4	79.5
22.5°	119.9	105.3	94.1	86.3	79.5	75.1	71.7	70.6	69.5	69.5
25°	108.7	95.2	85.1	77.3	71.7	67.2	63.9	62.7	61.6	60.5
26°	105.3	91.9	81.8	73.9	68.3	63.9	61.6	59.4	58.3	58.3
27.5°	100.8	86.3	77.3	69.5	63.9	60.5	57.1	56.0	54.9	54.9
30°	90.7	78.4	69.5	62.7	58.3	53.8	51.5	50.4	49.3	49.3
32.5°	82.9	70.6	62.7	57.1	52.7	49.3	47.1	44.8	44.8	44.8
35°	75.1	63.9	57.1	51.5	47.1	43.7	42.6	41.5	40.3	40.3
37.5°	68.3	58.3	51.5	47.1	43.7	40.3	38.1	37.0	37.0	37.0
40°	61.6	53.8	47.1	42.6	39.2	37.0	34.7	33.6	33.6	33.6
42.5°	56.0	48.2	43.7	39.2	35.9	33.6	32.5	31.4	30.2	30.2
45°	51.5	44.8	39.2	35.9	33.6	31.4	29.1	28.0	28.0	28.0
47.5°	45.9	41.5	35.9	32.5	30.2	28.0	26.9	25.8	25.8	25.8
50°	42.6	38.1	33.6	30.2	28.0	25.8	24.6	23.5	23.5	23.5
52.5°	38.1	34.7	31.4	28.0	25.8	23.5	22.4	21.3	21.3	21.3
55°	34.7	31.4	28.0	25.8	23.5	21.3	20.2	19.0	19.0	19.0
57.5°	31.4	28.0	25.8	23.5	21.3	20.2	17.9	17.9	16.8	16.8
60°	28.0	24.6	22.4	21.3	19.0	17.9	15.7	14.6	14.6	14.6
62.5°	23.5	22.4	20.2	17.9	15.7	14.6	13.4	12.3	12.3	12.3
65°	20.2	19.0	16.8	14.6	13.4	12.3	11.2	10.1	10.1	10.1
67.5°	16.8	14.6	13.4	12.3	11.2	10.1	9.0	7.8	6.7	7.8
70°	12.3	11.2	10.1	9.0	7.8	6.7	5.6	5.6	4.5	4.5
72.5°	7.8	6.7	6.7	5.6	4.5	4.5	3.4	3.4	2.2	2.2
75°	4.5	4.5	3.4	3.4	2.2	2.2	1.1	1.1	1.1	1.1
77.5°	2.2	1.1	1.1	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)