

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: P3ART13R70W2N902750DE010 E3CLSWW1MMS_3000K

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: P3ART13R70W2N902750DE010 E3CLSWW1MMS_3000K
Description: 3in Adjustable Tunable White LED luminaire with, R70 optic, 3000K CCT AND, 90CRI ,
E3CLSWW1MMS TRIM
Light Source: -
Ballast/Driver: -

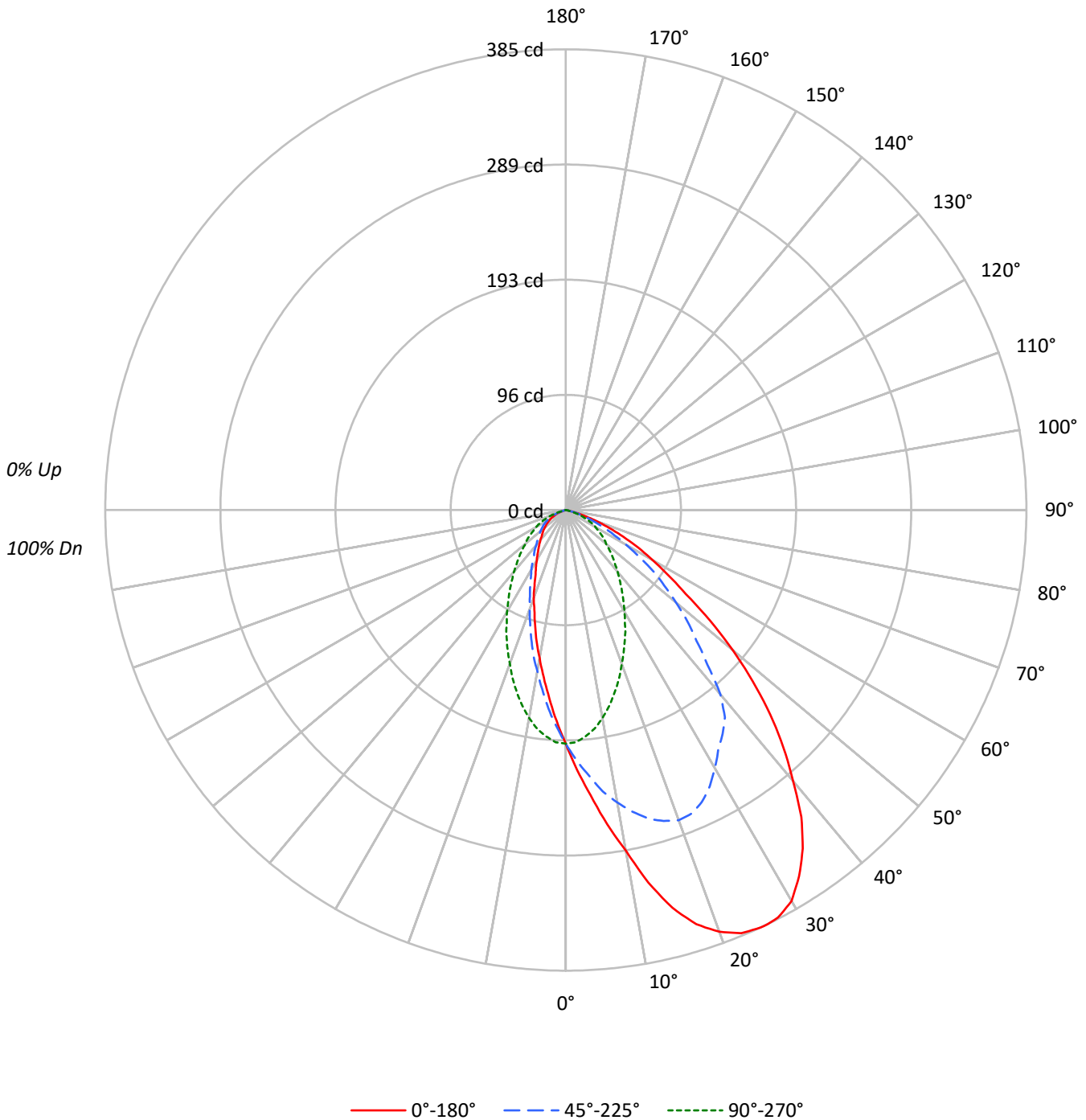
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 389.0 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): 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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89
2	103	96	91	86	101	95	89	85	91	87	83	88	85	81	85	82	80	78
3	95	87	80	74	93	85	79	74	82	77	72	80	75	71	77	73	70	68
4	88	78	70	65	86	77	70	64	74	68	63	72	67	63	70	66	62	60
5	82	71	63	57	80	70	62	57	68	61	56	66	60	56	64	59	55	53
6	76	64	56	51	74	63	56	51	62	55	50	60	54	50	59	53	49	47
7	71	59	51	45	69	58	51	45	57	50	45	55	49	45	54	49	44	43
8	66	54	46	41	65	53	46	41	52	46	41	51	45	41	50	44	40	39
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	42826	42826	42826	42826	42826
5°	52696	49064	41778	36672	34735
10°	64372	55265	39300	30460	28011
15°	78139	60613	35823	25290	22543
20°	87531	64359	31923	20605	18272
25°	93175	65133	28308	17082	14420
30°	95534	63124	24865	14534	12280
35°	92434	61141	21844	12394	10627
40°	84644	57479	19265	11049	9475
45°	74923	47912	17118	10265	8559
50°	62088	41039	15044	9415	7914
55°	46832	34178	13916	8869	7187
60°	36795	25656	12587	8245	6271
65°	27500	18887	10896	6849	5137
70°	17695	12053	7758	4937	2821
75°	7456	6524	3728	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: 74923 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	18.5	4.8
10°-20°	53.3	13.7
20°-30°	78.0	20.0
30°-40°	84.9	21.8
40°-50°	73.5	18.9
50°-60°	49.2	12.7
60°-70°	25.4	6.5
70°-80°	6.0	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°	149.8	38.5
0°-40°	234.7	60.3
0°-60°	357.5	91.9
0°-90°	389.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	389.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	195	195	195	195	195	
5°	239	223	190	167	158	24
15°	344	267	158	111	99	98
25°	385	269	117	71	60	177
35°	345	228	82	46	40	214
45°	242	154	55	33	28	185
55°	122	89	36	23	19	113
65°	53	36	21	13	10	53
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°	195.3	195.3	195.3	195.3	195.3	195.3	195.3	195.3	195.3	195.3	195.3
2.5°	217.4	216.2	216.2	214.0	211.8	209.6	206.3	203.0	199.7	196.4	194.2
5°	239.4	240.5	239.4	235.0	229.5	222.9	216.2	208.5	200.8	194.2	189.8
7.5°	264.8	264.8	261.5	256.0	248.2	237.2	226.2	212.9	200.8	189.8	184.3
10°	289.1	289.1	283.5	274.7	262.6	248.2	232.8	215.1	198.6	183.1	176.5
12.5°	318.9	317.8	311.1	296.8	279.1	258.2	237.2	215.1	195.3	176.5	167.7
15°	344.2	343.1	334.3	316.6	293.5	267.0	238.3	212.9	188.7	167.7	157.8
17.5°	363.0	360.8	350.9	332.1	305.6	272.5	239.4	208.5	180.9	157.8	147.8
20°	375.1	374.0	363.0	340.9	312.2	275.8	238.3	203.0	173.2	147.8	136.8
22.5°	382.8	380.6	369.6	345.3	312.2	274.7	233.9	195.3	163.3	137.9	126.9
25°	385.1	384.0	370.7	344.2	308.9	269.2	227.3	187.6	153.4	128.0	117.0
26°	385.1	384.0	370.7	343.1	306.7	265.9	224.0	184.3	150.0	123.6	113.6
27.5°	384.0	382.8	368.5	339.8	302.3	260.4	217.4	177.6	143.4	118.1	107.0
30°	377.3	375.1	360.8	332.1	292.4	249.3	206.3	167.7	133.5	108.1	98.2
32.5°	363.0	360.8	345.3	318.9	281.3	237.2	194.2	156.7	123.6	98.2	89.4
35°	345.3	343.1	327.7	302.3	265.9	228.4	180.9	144.5	112.5	90.5	81.6
37.5°	323.3	320.0	306.7	280.2	247.1	218.5	169.9	132.4	102.6	81.6	73.9
40°	295.7	294.6	282.4	258.2	225.1	200.8	163.3	132.4	93.8	73.9	67.3
42.5°	269.2	267.0	256.0	235.0	205.2	175.4	143.4	126.9	87.2	66.2	60.7
45°	241.6	239.4	229.5	211.8	184.3	154.5	132.4	109.2	75.0	60.7	55.2
47.5°	211.8	209.6	201.9	188.7	164.4	137.9	112.5	89.4	68.4	54.1	49.6
50°	182.0	183.1	176.5	163.3	144.5	120.3	97.1	75.0	58.5	48.5	44.1
52.5°	152.3	151.2	146.7	137.9	124.7	103.7	82.7	64.0	50.8	43.0	40.8
55°	122.5	123.6	121.4	115.8	104.8	89.4	69.5	55.2	45.2	38.6	36.4
57.5°	101.5	102.6	98.2	94.9	86.1	72.8	57.4	46.3	38.6	34.2	32.0
60°	83.9	85.0	81.6	77.2	70.6	58.5	46.3	38.6	34.2	30.9	28.7
62.5°	68.4	67.3	65.1	60.7	55.2	46.3	37.5	32.0	28.7	26.5	25.4
65°	53.0	53.0	50.8	47.4	43.0	36.4	29.8	26.5	24.3	22.1	21.0
67.5°	39.7	39.7	37.5	35.3	30.9	26.5	23.2	21.0	19.9	17.7	16.5
70°	27.6	27.6	26.5	25.4	22.1	18.8	17.7	15.4	14.3	13.2	12.1
72.5°	17.7	17.7	17.7	15.4	14.3	12.1	12.1	11.0	9.9	8.8	8.8
75°	8.8	9.9	8.8	8.8	7.7	7.7	6.6	6.6	5.5	5.5	4.4
77.5°	3.3	3.3	3.3	3.3	3.3	3.3	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°	195.3	195.3	195.3	195.3	195.3	195.3	195.3	195.3	195.3	195.3
2.5°	192.0	188.7	186.5	183.1	180.9	178.7	177.6	176.5	176.5	176.5
5°	186.5	180.9	175.4	169.9	166.6	163.3	160.0	158.9	157.8	157.8
7.5°	179.8	171.0	163.3	156.7	151.2	147.8	144.5	142.3	141.2	141.2
10°	171.0	160.0	151.2	142.3	136.8	132.4	130.2	126.9	126.9	125.8
12.5°	161.1	147.8	137.9	130.2	124.7	119.2	115.8	113.6	112.5	112.5
15°	150.0	136.8	125.8	117.0	111.4	105.9	102.6	100.4	99.3	99.3
17.5°	139.0	124.7	113.6	104.8	99.3	93.8	90.5	88.3	88.3	87.2
20°	128.0	113.6	102.6	93.8	88.3	83.9	80.5	78.3	77.2	78.3
22.5°	118.1	103.7	92.7	85.0	78.3	73.9	70.6	69.5	68.4	68.4
25°	107.0	93.8	83.9	76.1	70.6	66.2	62.9	61.8	60.7	59.6
26°	103.7	90.5	80.5	72.8	67.3	62.9	60.7	58.5	57.4	57.4
27.5°	99.3	85.0	76.1	68.4	62.9	59.6	56.3	55.2	54.1	54.1
30°	89.4	77.2	68.4	61.8	57.4	53.0	50.8	49.6	48.5	48.5
32.5°	81.6	69.5	61.8	56.3	51.9	48.5	46.3	44.1	44.1	44.1
35°	73.9	62.9	56.3	50.8	46.3	43.0	41.9	40.8	39.7	39.7
37.5°	67.3	57.4	50.8	46.3	43.0	39.7	37.5	36.4	36.4	36.4
40°	60.7	53.0	46.3	41.9	38.6	36.4	34.2	33.1	33.1	33.1
42.5°	55.2	47.4	43.0	38.6	35.3	33.1	32.0	30.9	29.8	29.8
45°	50.8	44.1	38.6	35.3	33.1	30.9	28.7	27.6	27.6	27.6
47.5°	45.2	40.8	35.3	32.0	29.8	27.6	26.5	25.4	25.4	25.4
50°	41.9	37.5	33.1	29.8	27.6	25.4	24.3	23.2	23.2	23.2
52.5°	37.5	34.2	30.9	27.6	25.4	23.2	22.1	21.0	21.0	21.0
55°	34.2	30.9	27.6	25.4	23.2	21.0	19.9	18.8	18.8	18.8
57.5°	30.9	27.6	25.4	23.2	21.0	19.9	17.7	17.7	16.5	16.5
60°	27.6	24.3	22.1	21.0	18.8	17.7	15.4	14.3	14.3	14.3
62.5°	23.2	22.1	19.9	17.7	15.4	14.3	13.2	12.1	12.1	12.1
65°	19.9	18.8	16.5	14.3	13.2	12.1	11.0	9.9	9.9	9.9
67.5°	16.5	14.3	13.2	12.1	11.0	9.9	8.8	7.7	6.6	7.7
70°	12.1	11.0	9.9	8.8	7.7	6.6	5.5	5.5	4.4	4.4
72.5°	7.7	6.6	6.6	5.5	4.4	4.4	3.3	3.3	2.2	2.2
75°	4.4	4.4	3.3	3.3	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)