

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 E3CLDWW1MW_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 (G1-2509-551-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/8/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3ART13R70W2N902750DE010 E3CLDWW1MW_4000K
Description: 3in Adjustable Tunable White LED luminaire with, R70 optic, 4000K CCT AND, 90CRI ,
E3CLDWW1MW TRIM
Light Source: -
Ballast/Driver: -

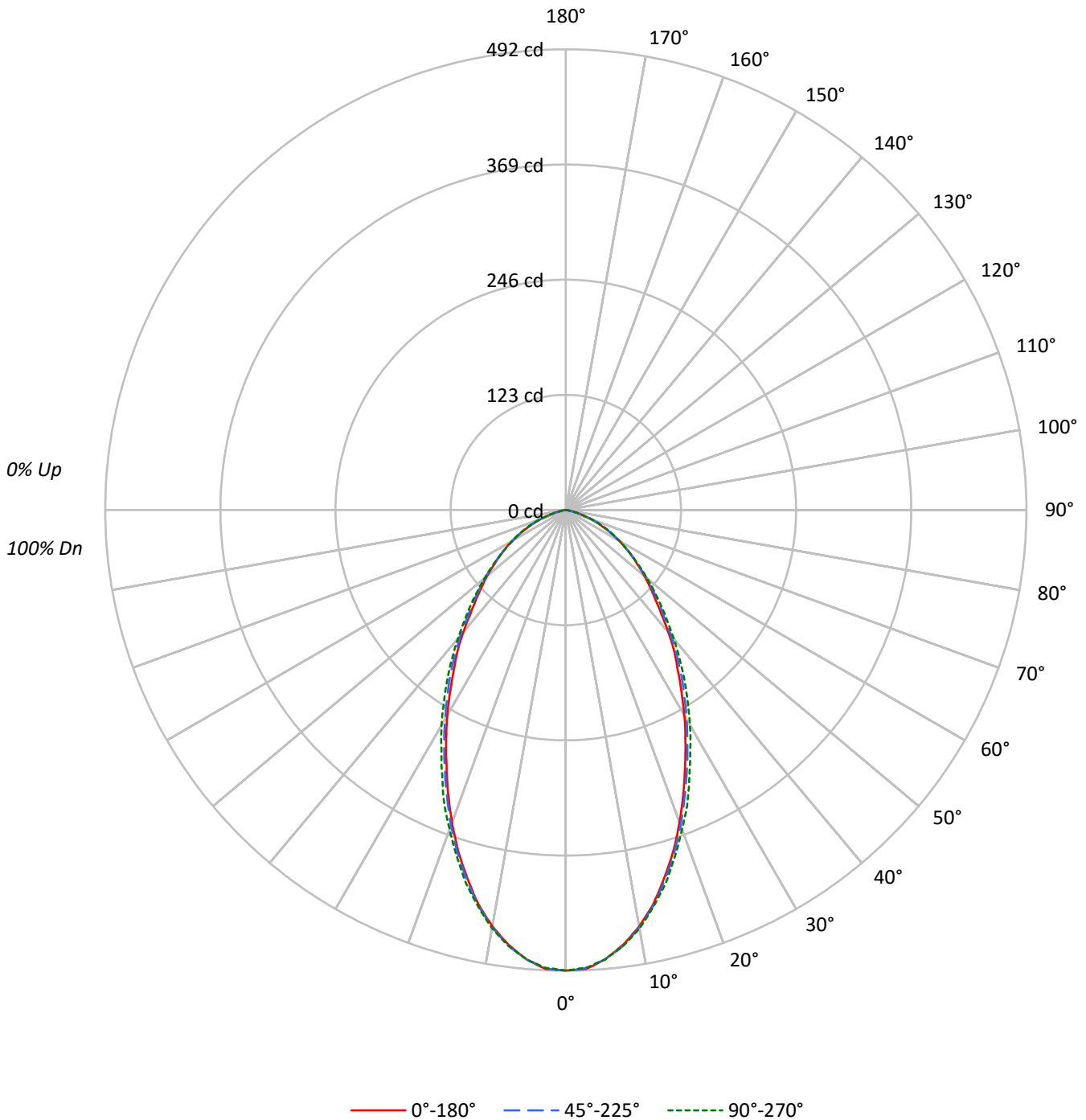
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 685.0 lumens
Efficiency: N/A
Efficacy: 55.7 lumens/watt
Spacing Criteria (0/90/45): 0.87 / 0.89 / 0.97
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	97	97	95	94	94	92	91	89
2	103	97	91	87	101	95	90	86	92	87	84	88	85	82	85	83	80	78
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	61
5	83	72	64	59	81	71	64	59	69	63	58	67	62	57	66	61	57	55
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	61	55	51	50
7	73	61	53	48	71	60	53	48	59	52	47	57	52	47	56	51	47	45
8	68	56	49	44	67	56	49	44	54	48	43	53	47	43	52	47	43	41
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	43	40	38
10	61	49	42	37	60	48	42	37	47	41	37	47	41	37	46	40	37	35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	107842	107842	107842
5°	106031	106031	106031
10°	100533	100777	101022
15°	92327	92827	93599
20°	82864	83657	84707
25°	72924	73988	75633
30°	64111	65251	67226
35°	55787	57581	59080
40°	48748	50037	51296
45°	42051	43415	44470
50°	37457	38208	38583
55°	32993	33413	33413
60°	28989	28506	28989
65°	23816	24438	25009
70°	18657	18657	19362
75°	12370	11353	11353
80°	7072	5683	4293
85°	2768	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 75°
 Vertical Angle: 45°
 Luminance: 44470 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.1	6.6
10°-20°	114.2	16.7
20°-30°	140.9	20.6
30°-40°	134.2	19.6
40°-50°	108.6	15.9
50°-60°	78.2	11.4
60°-70°	46.8	6.8
70°-80°	15.7	2.3
80°-90°	1.3	0.2
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°	300.1	43.8
0°-40°	434.4	63.4
0°-60°	621.2	90.7
0°-90°	685.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	685.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	492	492	492	492	492	
5°	482	482	482	482	482	45
15°	407	408	409	410	412	114
25°	301	303	306	311	313	139
35°	208	210	215	219	221	131
45°	136	138	140	143	143	106
55°	86	86	87	87	87	78
65°	46	47	47	48	48	46
75°	15	15	13	13	13	16
85°	1	1	0	0	0	2
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°	491.8	491.8	491.8	491.8	491.8	491.8	491.8	491.8	491.8	491.8	491.8
2°	490.7	490.7	490.7	490.7	490.7	490.7	490.7	490.7	490.7	490.7	489.6
2.5°	490.7	489.6	489.6	489.6	489.6	489.6	489.6	489.6	489.6	490.7	489.6
5°	481.7	481.7	481.7	481.7	481.7	481.7	481.7	481.7	482.8	481.7	481.7
7.5°	468.3	468.3	468.3	468.3	469.4	469.4	469.4	469.4	470.5	470.5	469.4
10°	451.5	451.5	451.5	451.5	452.6	452.6	453.7	452.6	452.6	453.7	453.7
12.5°	431.3	430.2	430.2	430.2	431.3	432.4	432.4	432.4	433.5	433.5	433.5
15°	406.7	406.7	406.7	407.8	407.8	408.9	410.0	410.0	411.1	411.1	412.3
17.5°	382.0	382.0	380.9	382.0	383.1	384.3	385.4	386.5	387.6	387.6	387.6
20°	355.1	354.0	355.1	356.2	357.4	358.5	359.6	361.8	363.0	363.0	363.0
22.5°	328.2	327.1	328.2	329.4	330.5	331.6	335.0	336.1	337.2	337.2	339.4
25°	301.4	301.4	302.5	303.6	304.7	305.8	308.1	310.3	311.4	312.6	312.6
27.5°	276.7	276.7	276.7	276.7	278.9	281.2	283.4	285.7	286.8	287.9	287.9
30°	253.2	252.1	252.1	253.2	255.4	257.7	259.9	262.1	263.3	264.4	265.5
32.5°	229.7	229.7	229.7	230.8	231.9	235.3	237.5	238.6	240.9	242.0	242.0
35°	208.4	208.4	208.4	210.6	212.9	215.1	216.2	218.5	220.7	220.7	220.7
37.5°	190.4	191.6	193.8	192.7	192.7	193.8	194.9	197.2	199.4	199.4	199.4
40°	170.3	171.4	172.5	171.4	172.5	174.8	175.9	177.0	178.1	179.2	179.2
42.5°	151.2	151.2	151.2	152.4	154.6	155.7	158.0	159.1	160.2	160.2	160.2
45°	135.6	135.6	136.7	137.8	138.9	140.0	141.2	142.3	143.4	143.4	143.4
47.5°	122.1	122.1	123.2	123.2	124.3	125.5	126.6	126.6	127.7	128.8	127.7
50°	109.8	109.8	109.8	110.9	110.9	112.0	112.0	113.1	113.1	113.1	113.1
52.5°	97.5	97.5	97.5	97.5	98.6	98.6	98.6	99.7	99.7	99.7	99.7
55°	86.3	86.3	86.3	86.3	86.3	87.4	87.4	87.4	87.4	87.4	87.4
57.5°	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2
60°	66.1	66.1	66.1	66.1	66.1	65.0	66.1	66.1	66.1	66.1	66.1
62.5°	56.0	56.0	56.0	56.0	56.0	56.0	56.0	57.1	57.1	57.1	57.1
65°	45.9	47.1	47.1	47.1	47.1	47.1	47.1	48.2	48.2	48.2	48.2
67.5°	37.0	38.1	38.1	38.1	38.1	38.1	38.1	38.1	39.2	39.2	39.2
70°	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	30.2
72.5°	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	21.3	21.3	21.3
75°	14.6	14.6	14.6	14.6	13.4	13.4	13.4	13.4	13.4	13.4	13.4
77.5°	10.1	10.1	10.1	9.0	9.0	7.8	7.8	7.8	7.8	7.8	6.7
80°	5.6	5.6	5.6	5.6	5.6	4.5	4.5	3.4	3.4	3.4	3.4
82.5°	3.4	3.4	3.4	2.2	2.2	2.2	2.2	1.1	1.1	1.1	1.1
85°	1.1	1.1	1.1	1.1	1.1	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

(END OF REPORT)