

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: P3ART09R70W2N902750DE010 E3CLSWW1MMS_2700K

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: P3ART09R70W2N902750DE010 E3CLSWW1MMS_2700K
Description: 3in Adjustable Tunable White LED luminaire with, R70 optic, 2700K CCT AND, 90CRI ,
E3CLSWW1MMS TRIM
Light Source: -
Ballast/Driver: -

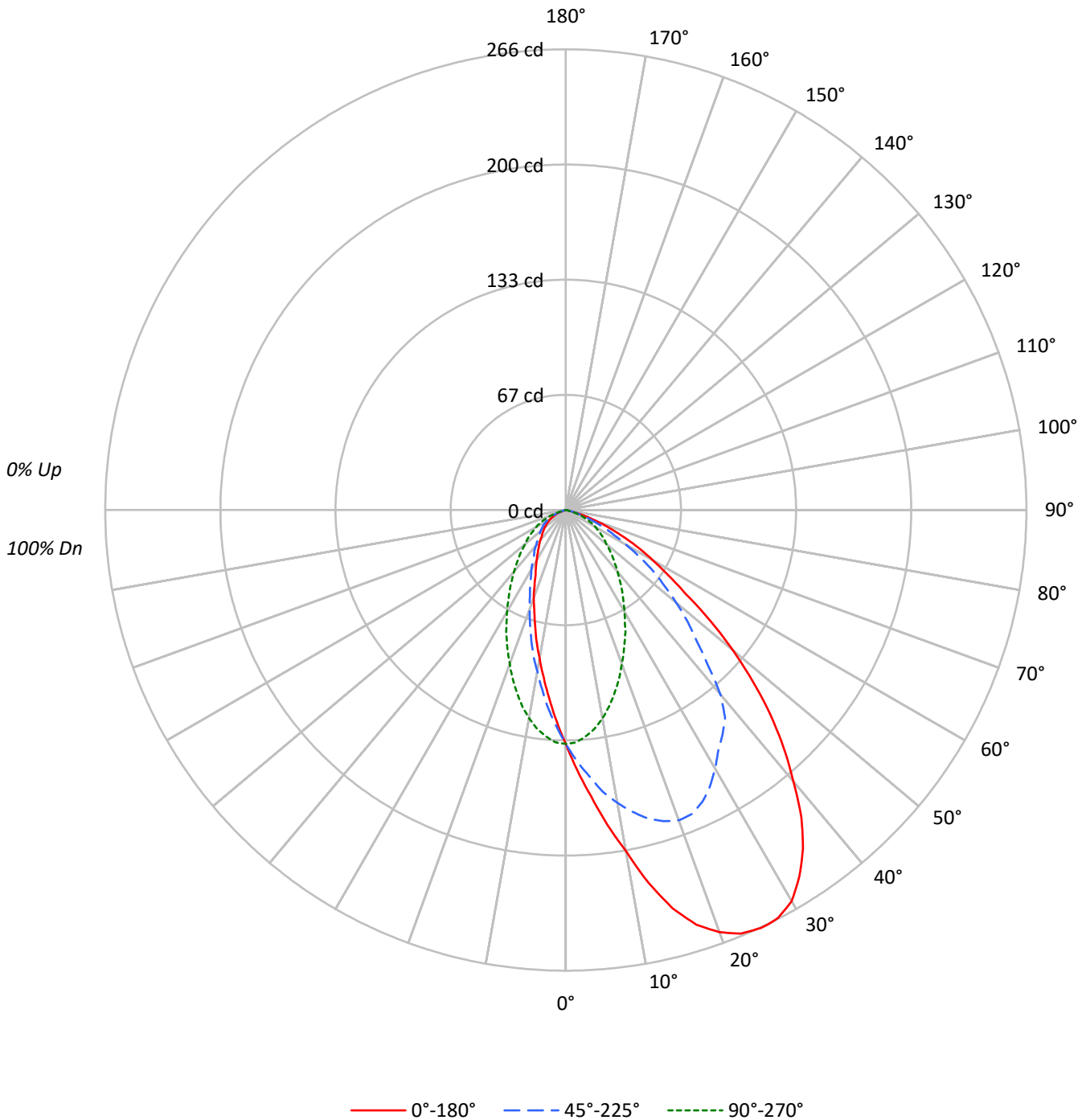
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 269.0 lumens
Efficiency: N/A
Efficacy: 29.9 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): 9
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	102	102	102	100
1	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	91	91	91	89
2	103	96	91	86	101	95	89	85	91	87	83	88	85	81	85	82	80	80	80	80	78
3	95	87	80	74	93	85	79	74	82	77	72	80	75	71	77	73	70	70	70	70	68
4	88	78	70	65	86	77	70	64	74	68	63	72	67	63	70	66	62	62	62	62	60
5	82	71	63	57	80	70	62	57	68	61	56	66	60	56	64	59	55	55	55	55	53
6	76	64	56	51	74	63	56	51	62	55	50	60	54	50	59	53	49	49	49	49	47
7	71	59	51	45	69	58	51	45	57	50	45	55	49	45	54	49	44	44	44	44	43
8	66	54	46	41	65	53	46	41	52	46	41	51	45	41	50	44	40	40	40	40	39
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	37	37	37	35
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	34	34	34	32

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	29603	29603	29603	29603	29603
5°	36452	33920	28880	25358	24015
10°	44510	38231	27187	21064	19372
15°	54030	41907	24767	17503	15596
20°	60532	44501	22075	14235	12648
25°	64431	45051	19574	11807	9968
30°	66061	43652	17193	10052	8508
35°	63925	42269	15125	8566	7362
40°	58538	39760	13311	7643	6555
45°	51819	33120	11815	7102	5923
50°	42950	28383	10405	6516	5458
55°	32381	23626	9634	6117	4970
60°	25437	17718	8684	5701	4342
65°	18990	13075	7524	4774	3580
70°	12246	8335	5386	3398	1988
75°	5168	4490	2626	1271	678
80°	1010	1010	0	0	0
85°	0	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 51819 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.8	4.8
10°-20°	36.9	13.7
20°-30°	53.9	20.0
30°-40°	58.7	21.8
40°-50°	50.8	18.9
50°-60°	34.1	12.7
60°-70°	17.6	6.5
70°-80°	4.2	1.5
80°-90°	0.0	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°	103.6	38.5
0°-40°	162.3	60.3
0°-60°	247.2	91.9
0°-90°	269.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	269.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	135	135	135	135	135	
5°	166	154	131	115	109	17
15°	238	185	109	77	69	67
25°	266	186	81	49	41	122
35°	239	158	56	32	28	148
45°	167	107	38	23	19	128
55°	85	62	25	16	13	78
65°	37	25	14	9	7	37
75°	6	5	3	2	1	8
85°	0	0	0	0	0	0
90°	0	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°	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0
2.5°	150.3	149.5	149.5	148.0	146.5	145.0	142.7	140.4	138.1	135.8	134.3
5°	165.6	166.3	165.6	162.5	158.7	154.1	149.5	144.2	138.9	134.3	131.2
7.5°	183.1	183.1	180.8	177.0	171.7	164.0	156.4	147.3	138.9	131.2	127.4
10°	199.9	199.9	196.1	190.0	181.6	171.7	161.0	148.8	137.3	126.7	122.1
12.5°	220.5	219.7	215.2	205.2	193.0	178.5	164.0	148.8	135.0	122.1	116.0
15°	238.0	237.3	231.2	219.0	202.9	184.6	164.8	147.3	130.5	116.0	109.1
17.5°	251.0	249.5	242.6	229.6	211.3	188.4	165.6	144.2	125.1	109.1	102.2
20°	259.4	258.6	251.0	235.8	215.9	190.7	164.8	140.4	119.8	102.2	94.6
22.5°	264.7	263.2	255.6	238.8	215.9	190.0	161.7	135.0	112.9	95.4	87.7
25°	266.3	265.5	256.4	238.0	213.6	186.2	157.2	129.7	106.1	88.5	80.9
26°	266.3	265.5	256.4	237.3	212.1	183.9	154.9	127.4	103.8	85.5	78.6
27.5°	265.5	264.7	254.8	235.0	209.0	180.1	150.3	122.8	99.2	81.6	74.0
30°	260.9	259.4	249.5	229.6	202.2	172.4	142.7	116.0	92.3	74.8	67.9
32.5°	251.0	249.5	238.8	220.5	194.6	164.0	134.3	108.3	85.5	67.9	61.8
35°	238.8	237.3	226.6	209.0	183.9	157.9	125.1	99.9	77.8	62.6	56.5
37.5°	223.5	221.3	212.1	193.8	170.9	151.1	117.5	91.6	71.0	56.5	51.1
40°	204.5	203.7	195.3	178.5	155.6	138.9	112.9	91.6	64.9	51.1	46.5
42.5°	186.2	184.6	177.0	162.5	141.9	121.3	99.2	87.7	60.3	45.8	42.0
45°	167.1	165.6	158.7	146.5	127.4	106.8	106.8	75.5	51.9	42.0	38.1
47.5°	146.5	145.0	139.6	130.5	113.7	95.4	77.8	61.8	47.3	37.4	34.3
50°	125.9	126.7	122.1	112.9	99.9	83.2	67.1	51.9	40.4	33.6	30.5
52.5°	105.3	104.5	101.5	95.4	86.2	71.7	57.2	44.3	35.1	29.8	28.2
55°	84.7	85.5	83.9	80.1	72.5	61.8	48.1	38.1	31.3	26.7	25.2
57.5°	70.2	71.0	67.9	65.6	59.5	50.4	39.7	32.0	26.7	23.7	22.1
60°	58.0	58.7	56.5	53.4	48.8	40.4	32.0	26.7	23.7	21.4	19.8
62.5°	47.3	46.5	45.0	42.0	38.1	32.0	25.9	22.1	19.8	18.3	17.5
65°	36.6	36.6	35.1	32.8	29.8	25.2	20.6	18.3	16.8	15.3	14.5
67.5°	27.5	27.5	25.9	24.4	21.4	18.3	16.0	14.5	13.7	12.2	11.4
70°	19.1	19.1	18.3	17.5	15.3	13.0	12.2	10.7	9.9	9.2	8.4
72.5°	12.2	12.2	12.2	10.7	9.9	8.4	8.4	7.6	6.9	6.1	6.1
75°	6.1	6.9	6.1	6.1	5.3	5.3	4.6	4.6	3.8	3.8	3.1
77.5°	2.3	2.3	2.3	2.3	2.3	2.3	1.5	1.5	1.5	1.5	1.5
80°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	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°	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0
2.5°	132.8	130.5	128.9	126.7	125.1	123.6	122.8	122.1	122.1	122.1
5°	128.9	125.1	121.3	117.5	115.2	112.9	110.6	109.9	109.1	109.1
7.5°	124.4	118.3	112.9	108.3	104.5	102.2	99.9	98.4	97.7	97.7
10°	118.3	110.6	104.5	98.4	94.6	91.6	90.0	87.7	87.7	87.0
12.5°	111.4	102.2	95.4	90.0	86.2	82.4	80.1	78.6	77.8	77.8
15°	103.8	94.6	87.0	80.9	77.1	73.2	71.0	69.4	68.7	68.7
17.5°	96.1	86.2	78.6	72.5	68.7	64.9	62.6	61.0	61.0	60.3
20°	88.5	78.6	71.0	64.9	61.0	58.0	55.7	54.2	53.4	54.2
22.5°	81.6	71.7	64.1	58.7	54.2	51.1	48.8	48.1	47.3	47.3
25°	74.0	64.9	58.0	52.6	48.8	45.8	43.5	42.7	42.0	41.2
26°	71.7	62.6	55.7	50.4	46.5	43.5	42.0	40.4	39.7	39.7
27.5°	68.7	58.7	52.6	47.3	43.5	41.2	38.9	38.1	37.4	37.4
30°	61.8	53.4	47.3	42.7	39.7	36.6	35.1	34.3	33.6	33.6
32.5°	56.5	48.1	42.7	38.9	35.9	33.6	32.0	30.5	30.5	30.5
35°	51.1	43.5	38.9	35.1	32.0	29.8	29.0	28.2	27.5	27.5
37.5°	46.5	39.7	35.1	32.0	29.8	27.5	25.9	25.2	25.2	25.2
40°	42.0	36.6	32.0	29.0	26.7	25.2	23.7	22.9	22.9	22.9
42.5°	38.1	32.8	29.8	26.7	24.4	22.9	22.1	21.4	20.6	20.6
45°	35.1	30.5	26.7	24.4	22.9	21.4	19.8	19.1	19.1	19.1
47.5°	31.3	28.2	24.4	22.1	20.6	19.1	18.3	17.5	17.5	17.5
50°	29.0	25.9	22.9	20.6	19.1	17.5	16.8	16.0	16.0	16.0
52.5°	25.9	23.7	21.4	19.1	17.5	16.0	15.3	14.5	14.5	14.5
55°	23.7	21.4	19.1	17.5	16.0	14.5	13.7	13.0	13.0	13.0
57.5°	21.4	19.1	17.5	16.0	14.5	13.7	12.2	12.2	11.4	11.4
60°	19.1	16.8	15.3	14.5	13.0	12.2	10.7	9.9	9.9	9.9
62.5°	16.0	15.3	13.7	12.2	10.7	9.9	9.2	8.4	8.4	8.4
65°	13.7	13.0	11.4	9.9	9.2	8.4	7.6	6.9	6.9	6.9
67.5°	11.4	9.9	9.2	8.4	7.6	6.9	6.1	5.3	4.6	5.3
70°	8.4	7.6	6.9	6.1	5.3	4.6	3.8	3.8	3.1	3.1
72.5°	5.3	4.6	4.6	3.8	3.1	3.1	2.3	2.3	1.5	1.5
75°	3.1	3.1	2.3	2.3	1.5	1.5	0.8	0.8	0.8	0.8
77.5°	1.5	0.8	0.8	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)