

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_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: P3ART09R70W2N902750DE010 E3CLSWW1MMS_3500K
Description: 3in Adjustable Tunable White LED luminaire with, R70 optic, 3500K CCT AND, 90CRI ,
E3CLSWW1MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 301.0 lumens
Efficiency: N/A
Efficacy: 33.4 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	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°	33133	33133	33133	33133	33133
5°	40788	37970	32313	28373	26876
10°	49810	42774	30416	23580	21665
15°	60477	46902	27719	19569	17435
20°	67743	49798	24712	15938	14141
25°	72077	50398	21896	13210	11154
30°	73935	48843	19243	11242	9520
35°	71527	47301	16918	9610	8218
40°	65494	44483	14914	8559	7328
45°	57991	37058	13242	7939	6605
50°	48067	31760	11633	7266	6106
55°	36242	26455	10781	6843	5543
60°	28463	19823	9736	6359	4868
65°	21273	14632	8406	5292	3995
70°	13656	9296	6027	3847	2180
75°	5761	5083	2881	1440	763
80°	1137	1137	0	0	0
85°	0	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 57991 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.3	4.8
10°-20°	41.3	13.7
20°-30°	60.3	20.0
30°-40°	65.7	21.8
40°-50°	56.9	18.9
50°-60°	38.1	12.7
60°-70°	19.7	6.5
70°-80°	4.7	1.6
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°	115.9	38.5
0°-40°	181.6	60.3
0°-60°	276.6	91.9
0°-90°	301.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	301.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	151	151	151	151	151	
5°	185	172	147	129	122	19
15°	266	207	122	86	77	75
25°	298	208	90	55	46	137
35°	267	177	63	36	31	165
45°	187	120	43	26	21	143
55°	95	69	28	18	14	88
65°	41	28	16	10	8	41
75°	7	6	3	2	1	9
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	151.1	151.1	151.1	151.1	151.1	151.1	151.1	151.1	151.1	151.1	151.1
2.5°	168.2	167.3	167.3	165.6	163.9	162.2	159.6	157.1	154.5	152.0	150.3
5°	185.3	186.1	185.3	181.8	177.6	172.5	167.3	161.4	155.4	150.3	146.8
7.5°	204.9	204.9	202.3	198.1	192.1	183.5	175.0	164.8	155.4	146.8	142.6
10°	223.7	223.7	219.4	212.6	203.2	192.1	180.1	166.5	153.7	141.7	136.6
12.5°	246.7	245.9	240.7	229.6	216.0	199.8	183.5	166.5	151.1	136.6	129.8
15°	266.4	265.5	258.7	245.0	227.1	206.6	184.4	164.8	146.0	129.8	122.1
17.5°	280.9	279.2	271.5	257.0	236.5	210.9	185.3	161.4	140.0	122.1	114.4
20°	290.3	289.4	280.9	263.8	241.6	213.4	184.4	157.1	134.0	114.4	105.9
22.5°	296.2	294.5	286.0	267.2	241.6	212.6	181.0	151.1	126.3	106.7	98.2
25°	297.9	297.1	286.8	266.4	239.0	208.3	175.9	145.1	118.7	99.0	90.5
26°	297.9	297.1	286.8	265.5	237.3	205.7	173.3	142.6	116.1	95.6	87.9
27.5°	297.1	296.2	285.1	262.9	233.9	201.5	168.2	137.4	111.0	91.3	82.8
30°	292.0	290.3	279.2	257.0	226.2	192.9	159.6	129.8	103.3	83.7	76.0
32.5°	280.9	279.2	267.2	246.7	217.7	183.5	150.3	121.2	95.6	76.0	69.2
35°	267.2	265.5	253.6	233.9	205.7	176.7	140.0	111.8	87.1	70.0	63.2
37.5°	250.1	247.6	237.3	216.8	191.2	169.0	131.5	102.4	79.4	63.2	57.2
40°	228.8	227.9	218.6	199.8	174.2	155.4	126.3	102.4	72.6	57.2	52.1
42.5°	208.3	206.6	198.1	181.8	158.8	135.7	111.0	98.2	67.4	51.2	47.0
45°	187.0	185.3	177.6	163.9	142.6	119.5	119.5	84.5	58.1	47.0	42.7
47.5°	163.9	162.2	156.2	146.0	127.2	106.7	87.1	69.2	52.9	41.8	38.4
50°	140.9	141.7	136.6	126.3	111.8	93.1	75.1	58.1	45.2	37.6	34.1
52.5°	117.8	117.0	113.5	106.7	96.5	80.2	64.0	49.5	39.3	33.3	31.6
55°	94.8	95.6	93.9	89.6	81.1	69.2	53.8	42.7	35.0	29.9	28.2
57.5°	78.5	79.4	76.0	73.4	66.6	56.3	44.4	35.9	29.9	26.5	24.8
60°	64.9	65.7	63.2	59.8	54.6	45.2	35.9	29.9	26.5	23.9	22.2
62.5°	52.9	52.1	50.4	47.0	42.7	35.9	29.0	24.8	22.2	20.5	19.6
65°	41.0	41.0	39.3	36.7	33.3	28.2	23.1	20.5	18.8	17.1	16.2
67.5°	30.7	30.7	29.0	27.3	23.9	20.5	17.9	16.2	15.4	13.7	12.8
70°	21.3	21.3	20.5	19.6	17.1	14.5	13.7	12.0	11.1	10.2	9.4
72.5°	13.7	13.7	13.7	12.0	11.1	9.4	9.4	8.5	7.7	6.8	6.8
75°	6.8	7.7	6.8	6.8	6.0	6.0	5.1	5.1	4.3	4.3	3.4
77.5°	2.6	2.6	2.6	2.6	2.6	2.6	1.7	1.7	1.7	1.7	1.7
80°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	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°	151.1	151.1	151.1	151.1	151.1	151.1	151.1	151.1	151.1	151.1
2.5°	148.5	146.0	144.3	141.7	140.0	138.3	137.4	136.6	136.6	136.6
5°	144.3	140.0	135.7	131.5	128.9	126.3	123.8	122.9	122.1	122.1
7.5°	139.2	132.3	126.3	121.2	117.0	114.4	111.8	110.1	109.3	109.3
10°	132.3	123.8	117.0	110.1	105.9	102.4	100.7	98.2	98.2	97.3
12.5°	124.6	114.4	106.7	100.7	96.5	92.2	89.6	87.9	87.1	87.1
15°	116.1	105.9	97.3	90.5	86.2	82.0	79.4	77.7	76.8	76.8
17.5°	107.6	96.5	87.9	81.1	76.8	72.6	70.0	68.3	68.3	67.4
20°	99.0	87.9	79.4	72.6	68.3	64.9	62.3	60.6	59.8	60.6
22.5°	91.3	80.2	71.7	65.7	60.6	57.2	54.6	53.8	52.9	52.9
25°	82.8	72.6	64.9	58.9	54.6	51.2	48.7	47.8	47.0	46.1
26°	80.2	70.0	62.3	56.3	52.1	48.7	47.0	45.2	44.4	44.4
27.5°	76.8	65.7	58.9	52.9	48.7	46.1	43.5	42.7	41.8	41.8
30°	69.2	59.8	52.9	47.8	44.4	41.0	39.3	38.4	37.6	37.6
32.5°	63.2	53.8	47.8	43.5	40.1	37.6	35.9	34.1	34.1	34.1
35°	57.2	48.7	43.5	39.3	35.9	33.3	32.4	31.6	30.7	30.7
37.5°	52.1	44.4	39.3	35.9	33.3	30.7	29.0	28.2	28.2	28.2
40°	47.0	41.0	35.9	32.4	29.9	28.2	26.5	25.6	25.6	25.6
42.5°	42.7	36.7	33.3	29.9	27.3	25.6	24.8	23.9	23.1	23.1
45°	39.3	34.1	29.9	27.3	25.6	23.9	22.2	21.3	21.3	21.3
47.5°	35.0	31.6	27.3	24.8	23.1	21.3	20.5	19.6	19.6	19.6
50°	32.4	29.0	25.6	23.1	21.3	19.6	18.8	17.9	17.9	17.9
52.5°	29.0	26.5	23.9	21.3	19.6	17.9	17.1	16.2	16.2	16.2
55°	26.5	23.9	21.3	19.6	17.9	16.2	15.4	14.5	14.5	14.5
57.5°	23.9	21.3	19.6	17.9	16.2	15.4	13.7	13.7	12.8	12.8
60°	21.3	18.8	17.1	16.2	14.5	13.7	12.0	11.1	11.1	11.1
62.5°	17.9	17.1	15.4	13.7	12.0	11.1	10.2	9.4	9.4	9.4
65°	15.4	14.5	12.8	11.1	10.2	9.4	8.5	7.7	7.7	7.7
67.5°	12.8	11.1	10.2	9.4	8.5	7.7	6.8	6.0	5.1	6.0
70°	9.4	8.5	7.7	6.8	6.0	5.1	4.3	4.3	3.4	3.4
72.5°	6.0	5.1	5.1	4.3	3.4	3.4	2.6	2.6	1.7	1.7
75°	3.4	3.4	2.6	2.6	1.7	1.7	0.9	0.9	0.9	0.9
77.5°	1.7	0.9	0.9	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)