

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: P1446836

Luminaire Tested: P3ART13R709827DE010 E3CLSWW1MMS

Issue Date: 5/8/2026

Test Information

Test Method: LM-79-2019
Report Number: P1446836
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: P3ART13R709827DE010 E3CLSWW1MMS
Description: 3in Adjustable LED luminaire with, R70 optic, 2700K CCT AND, 98CRI , E3CLSWW1MMS TRIM
Light Source: -
Ballast/Driver: -

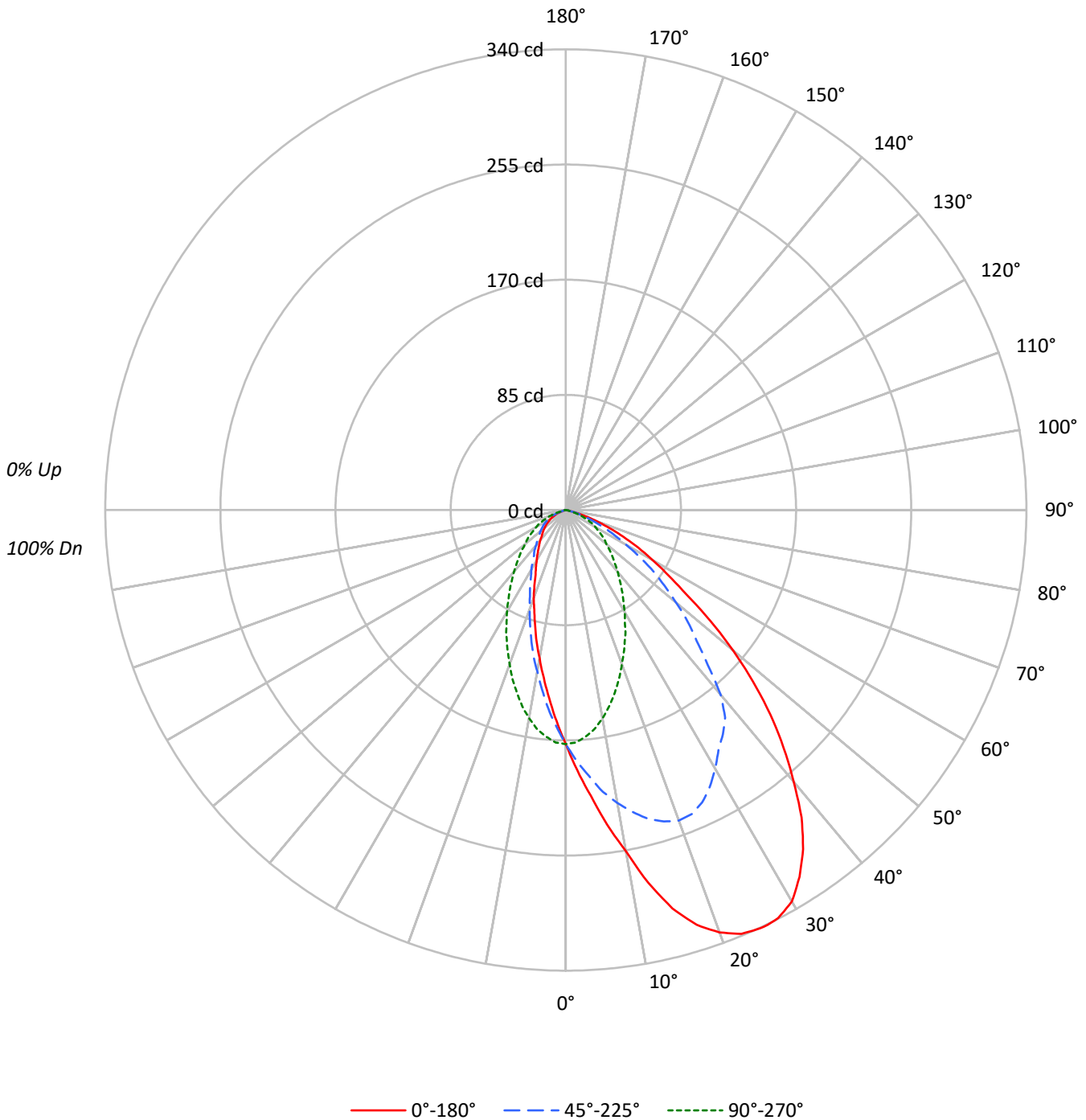
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 344.0 lumens
Efficiency: N/A
Efficacy: 23.7 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): 14.5
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°	37870	37870	37870	37870	37870
5°	46599	43385	36936	32423	30707
10°	56913	48875	34758	26942	24760
15°	69104	53598	31669	22361	19932
20°	77403	56915	28236	18225	16171
25°	82384	57608	25018	15098	12751
30°	84494	55831	21978	12837	10862
35°	81753	54074	19327	10975	9396
40°	74855	50838	17032	9761	8387
45°	66270	42361	15133	9086	7567
50°	54924	36263	13304	8324	6993
55°	41404	30202	12310	7837	6346
60°	32541	22674	11139	7280	5570
65°	24283	16707	9599	6071	4566
70°	15644	10643	6860	4360	2500
75°	6608	5761	3304	1694	847
80°	1263	1263	0	0	0
85°	0	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 66270 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16.4	4.8
10°-20°	47.1	13.7
20°-30°	68.9	20.0
30°-40°	75.1	21.8
40°-50°	65.0	18.9
50°-60°	43.5	12.7
60°-70°	22.5	6.5
70°-80°	5.3	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°	132.5	38.5
0°-40°	207.6	60.3
0°-60°	316.1	91.9
0°-90°	344.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	344.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	173	173	173	173	173	
5°	212	197	168	147	140	22
15°	304	236	140	98	88	86
25°	340	238	103	62	53	156
35°	305	202	72	41	35	189
45°	214	137	49	29	24	164
55°	108	79	32	20	17	100
65°	47	32	18	12	9	47
75°	8	7	4	2	1	10
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°	172.7	172.7	172.7	172.7	172.7	172.7	172.7	172.7	172.7	172.7	172.7
2.5°	192.2	191.2	191.2	189.3	187.3	185.4	182.5	179.5	176.6	173.7	171.7
5°	211.7	212.7	211.7	207.8	202.9	197.1	191.2	184.4	177.6	171.7	167.8
7.5°	234.2	234.2	231.2	226.4	219.5	209.8	200.0	188.3	177.6	167.8	162.9
10°	255.6	255.6	250.7	242.9	232.2	219.5	205.9	190.3	175.6	162.0	156.1
12.5°	282.0	281.0	275.1	262.5	246.8	228.3	209.8	190.3	172.7	156.1	148.3
15°	304.4	303.4	295.6	280.0	259.5	236.1	210.7	188.3	166.8	148.3	139.5
17.5°	321.0	319.0	310.3	293.7	270.3	241.0	211.7	184.4	160.0	139.5	130.7
20°	331.7	330.8	321.0	301.5	276.1	243.9	210.7	179.5	153.2	130.7	121.0
22.5°	338.6	336.6	326.9	305.4	276.1	242.9	206.8	172.7	144.4	122.0	112.2
25°	340.5	339.5	327.8	304.4	273.2	238.1	201.0	165.9	135.6	113.2	103.4
26°	340.5	339.5	327.8	303.4	271.2	235.1	198.1	162.9	132.7	109.3	100.5
27.5°	339.5	338.6	325.9	300.5	267.3	230.3	192.2	157.1	126.8	104.4	94.6
30°	333.7	331.7	319.0	293.7	258.6	220.5	182.5	148.3	118.1	95.6	86.8
32.5°	321.0	319.0	305.4	282.0	248.8	209.8	171.7	138.5	109.3	86.8	79.0
35°	305.4	303.4	289.8	267.3	235.1	202.0	160.0	127.8	99.5	80.0	72.2
37.5°	285.9	282.9	271.2	247.8	218.6	193.2	150.3	117.1	90.7	72.2	65.4
40°	261.5	260.5	249.8	228.3	199.0	177.6	144.4	117.1	82.9	65.4	59.5
42.5°	238.1	236.1	226.4	207.8	181.5	155.1	126.8	112.2	77.1	58.5	53.7
45°	213.7	211.7	202.9	187.3	162.9	136.6	136.6	96.6	66.3	53.7	48.8
47.5°	187.3	185.4	178.5	166.8	145.4	122.0	99.5	79.0	60.5	47.8	43.9
50°	161.0	162.0	156.1	144.4	127.8	106.3	85.9	66.3	51.7	42.9	39.0
52.5°	134.6	133.7	129.8	122.0	110.3	91.7	73.2	56.6	44.9	38.1	36.1
55°	108.3	109.3	107.3	102.4	92.7	79.0	61.5	48.8	40.0	34.1	32.2
57.5°	89.8	90.7	86.8	83.9	76.1	64.4	50.7	41.0	34.1	30.2	28.3
60°	74.2	75.1	72.2	68.3	62.4	51.7	41.0	34.1	30.2	27.3	25.4
62.5°	60.5	59.5	57.6	53.7	48.8	41.0	33.2	28.3	25.4	23.4	22.4
65°	46.8	46.8	44.9	42.0	38.1	32.2	26.3	23.4	21.5	19.5	18.5
67.5°	35.1	35.1	33.2	31.2	27.3	23.4	20.5	18.5	17.6	15.6	14.6
70°	24.4	24.4	23.4	22.4	19.5	16.6	15.6	13.7	12.7	11.7	10.7
72.5°	15.6	15.6	15.6	13.7	12.7	10.7	10.7	9.8	8.8	7.8	7.8
75°	7.8	8.8	7.8	7.8	6.8	6.8	5.9	5.9	4.9	4.9	3.9
77.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.0	2.0	2.0	2.0	2.0
80°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	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	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°	172.7	172.7	172.7	172.7	172.7	172.7	172.7	172.7	172.7	172.7
2.5°	169.8	166.8	164.9	162.0	160.0	158.1	157.1	156.1	156.1	156.1
5°	164.9	160.0	155.1	150.3	147.3	144.4	141.5	140.5	139.5	139.5
7.5°	159.0	151.2	144.4	138.5	133.7	130.7	127.8	125.9	124.9	124.9
10°	151.2	141.5	133.7	125.9	121.0	117.1	115.1	112.2	112.2	111.2
12.5°	142.4	130.7	122.0	115.1	110.3	105.4	102.4	100.5	99.5	99.5
15°	132.7	121.0	111.2	103.4	98.5	93.7	90.7	88.8	87.8	87.8
17.5°	122.9	110.3	100.5	92.7	87.8	82.9	80.0	78.1	78.1	77.1
20°	113.2	100.5	90.7	82.9	78.1	74.2	71.2	69.3	68.3	69.3
22.5°	104.4	91.7	82.0	75.1	69.3	65.4	62.4	61.5	60.5	60.5
25°	94.6	82.9	74.2	67.3	62.4	58.5	55.6	54.6	53.7	52.7
26°	91.7	80.0	71.2	64.4	59.5	55.6	53.7	51.7	50.7	50.7
27.5°	87.8	75.1	67.3	60.5	55.6	52.7	49.8	48.8	47.8	47.8
30°	79.0	68.3	60.5	54.6	50.7	46.8	44.9	43.9	42.9	42.9
32.5°	72.2	61.5	54.6	49.8	45.9	42.9	41.0	39.0	39.0	39.0
35°	65.4	55.6	49.8	44.9	41.0	38.1	37.1	36.1	35.1	35.1
37.5°	59.5	50.7	44.9	41.0	38.1	35.1	33.2	32.2	32.2	32.2
40°	53.7	46.8	41.0	37.1	34.1	32.2	30.2	29.3	29.3	29.3
42.5°	48.8	42.0	38.1	34.1	31.2	29.3	28.3	27.3	26.3	26.3
45°	44.9	39.0	34.1	31.2	29.3	27.3	25.4	24.4	24.4	24.4
47.5°	40.0	36.1	31.2	28.3	26.3	24.4	23.4	22.4	22.4	22.4
50°	37.1	33.2	29.3	26.3	24.4	22.4	21.5	20.5	20.5	20.5
52.5°	33.2	30.2	27.3	24.4	22.4	20.5	19.5	18.5	18.5	18.5
55°	30.2	27.3	24.4	22.4	20.5	18.5	17.6	16.6	16.6	16.6
57.5°	27.3	24.4	22.4	20.5	18.5	17.6	15.6	15.6	14.6	14.6
60°	24.4	21.5	19.5	18.5	16.6	15.6	13.7	12.7	12.7	12.7
62.5°	20.5	19.5	17.6	15.6	13.7	12.7	11.7	10.7	10.7	10.7
65°	17.6	16.6	14.6	12.7	11.7	10.7	9.8	8.8	8.8	8.8
67.5°	14.6	12.7	11.7	10.7	9.8	8.8	7.8	6.8	5.9	6.8
70°	10.7	9.8	8.8	7.8	6.8	5.9	4.9	4.9	3.9	3.9
72.5°	6.8	5.9	5.9	4.9	3.9	3.9	2.9	2.9	2.0	2.0
75°	3.9	3.9	2.9	2.9	2.0	2.0	1.0	1.0	1.0	1.0
77.5°	2.0	1.0	1.0	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)