

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: P3ART09R709830DE010 E3CLSWW1MW

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: P3ART09R709830DE010 E3CLSWW1MW
Description: 3in Adjustable LED luminaire with, R70 optic, 3000K CCT AND, 98CRI , E3CLSWW1MW TRIM
Light Source: -
Ballast/Driver: -

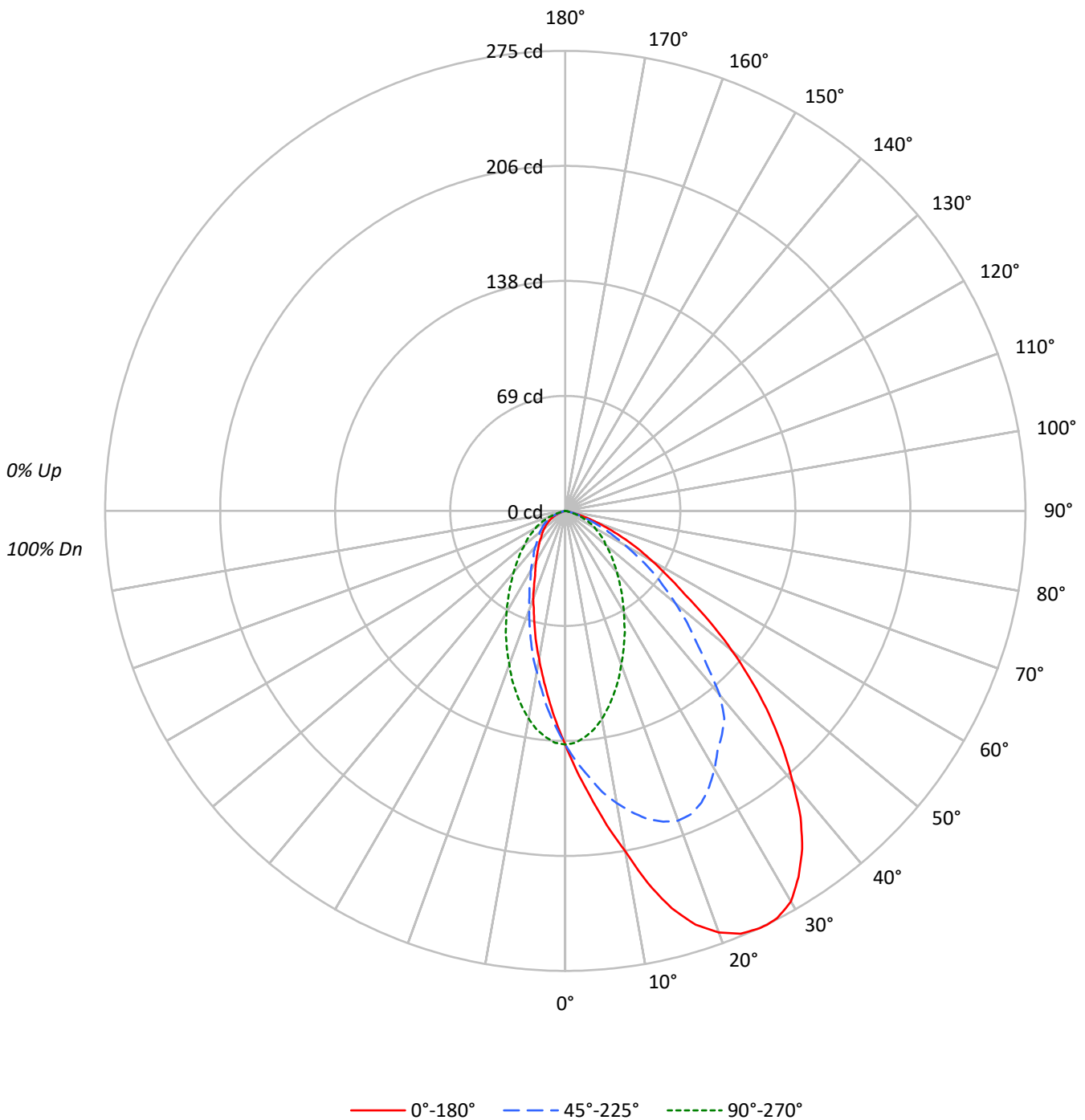
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 278.0 lumens
Efficiency: N/A
Efficacy: 25.3 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): 11
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°	30612	30612	30612	30612	30612
5°	37662	35065	29848	26216	24829
10°	46002	39500	28100	21776	20017
15°	55846	43315	25607	18070	16118
20°	62562	45994	22822	14725	13068
25°	66584	46551	20227	12218	10307
30°	68289	45121	17775	10381	8786
35°	66066	43687	15606	8861	7602
40°	60485	41077	13769	7901	6784
45°	53556	34236	12218	7350	6109
50°	44382	29304	10746	6720	5663
55°	33452	24429	9940	6346	5123
60°	26270	18332	8991	5877	4517
65°	19613	13490	7783	4929	3684
70°	12630	8591	5578	3526	2052
75°	5338	4660	2711	1356	678
80°	1010	1010	0	0	0
85°	0	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 53556 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.2	4.8
10°-20°	38.1	13.7
20°-30°	55.7	20.0
30°-40°	60.7	21.8
40°-50°	52.5	18.9
50°-60°	35.2	12.7
60°-70°	18.2	6.5
70°-80°	4.3	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°	107.1	38.5
0°-40°	167.8	60.3
0°-60°	255.5	91.9
0°-90°	278.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	278.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	140	140	140	140	140	
5°	171	159	136	119	113	17
15°	246	191	113	80	71	70
25°	275	192	84	50	43	126
35°	247	163	58	33	28	153
45°	173	110	39	24	20	132
55°	88	64	26	17	13	81
65°	38	26	15	10	7	38
75°	6	6	3	2	1	8
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°	139.6	139.6	139.6	139.6	139.6	139.6	139.6	139.6	139.6	139.6	139.6
2.5°	155.3	154.5	154.5	153.0	151.4	149.8	147.4	145.1	142.7	140.3	138.8
5°	171.1	171.9	171.1	167.9	164.0	159.3	154.5	149.0	143.5	138.8	135.6
7.5°	189.2	189.2	186.9	182.9	177.4	169.5	161.6	152.2	143.5	135.6	131.7
10°	206.6	206.6	202.6	196.3	187.7	177.4	166.4	153.8	141.9	130.9	126.2
12.5°	227.9	227.1	222.4	212.1	199.5	184.5	169.5	153.8	139.6	126.2	119.8
15°	246.0	245.2	238.9	226.3	209.7	190.8	170.3	152.2	134.8	119.8	112.8
17.5°	259.4	257.8	250.7	237.3	218.4	194.8	171.1	149.0	129.3	112.8	105.7
20°	268.1	267.3	259.4	243.6	223.1	197.1	170.3	145.1	123.8	105.7	97.8
22.5°	273.6	272.0	264.1	246.8	223.1	196.3	167.2	139.6	116.7	98.6	90.7
25°	275.2	274.4	264.9	246.0	220.8	192.4	162.4	134.0	109.6	91.5	83.6
26°	275.2	274.4	264.9	245.2	219.2	190.0	160.1	131.7	107.2	88.3	81.2
27.5°	274.4	273.6	263.4	242.9	216.0	186.1	155.3	126.9	102.5	84.4	76.5
30°	269.7	268.1	257.8	237.3	208.9	178.2	147.4	119.8	95.4	77.3	70.2
32.5°	259.4	257.8	246.8	227.9	201.1	169.5	138.8	112.0	88.3	70.2	63.9
35°	246.8	245.2	234.2	216.0	190.0	163.2	129.3	103.3	80.4	64.7	58.3
37.5°	231.0	228.7	219.2	200.3	176.6	156.1	121.4	94.6	73.3	58.3	52.8
40°	211.3	210.5	201.9	184.5	160.9	143.5	116.7	94.6	67.0	52.8	48.1
42.5°	192.4	190.8	182.9	167.9	146.7	125.4	102.5	90.7	62.3	47.3	43.4
45°	172.7	171.1	164.0	151.4	131.7	110.4	110.4	78.1	53.6	43.4	39.4
47.5°	151.4	149.8	144.3	134.8	117.5	98.6	80.4	63.9	48.9	38.6	35.5
50°	130.1	130.9	126.2	116.7	103.3	85.9	69.4	53.6	41.8	34.7	31.5
52.5°	108.8	108.0	104.9	98.6	89.1	74.1	59.1	45.7	36.3	30.8	29.2
55°	87.5	88.3	86.7	82.8	74.9	63.9	49.7	39.4	32.3	27.6	26.0
57.5°	72.5	73.3	70.2	67.8	61.5	52.0	41.0	33.1	27.6	24.4	22.9
60°	59.9	60.7	58.3	55.2	50.5	41.8	33.1	27.6	24.4	22.1	20.5
62.5°	48.9	48.1	46.5	43.4	39.4	33.1	26.8	22.9	20.5	18.9	18.1
65°	37.8	37.8	36.3	33.9	30.8	26.0	21.3	18.9	17.3	15.8	15.0
67.5°	28.4	28.4	26.8	25.2	22.1	18.9	16.6	15.0	14.2	12.6	11.8
70°	19.7	19.7	18.9	18.1	15.8	13.4	12.6	11.0	10.3	9.5	8.7
72.5°	12.6	12.6	12.6	11.0	10.3	8.7	8.7	7.9	7.1	6.3	6.3
75°	6.3	7.1	6.3	6.3	5.5	5.5	4.7	4.7	3.9	3.9	3.2
77.5°	2.4	2.4	2.4	2.4	2.4	2.4	1.6	1.6	1.6	1.6	1.6
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°	139.6	139.6	139.6	139.6	139.6	139.6	139.6	139.6	139.6	139.6
2.5°	137.2	134.8	133.3	130.9	129.3	127.7	126.9	126.2	126.2	126.2
5°	133.3	129.3	125.4	121.4	119.1	116.7	114.3	113.5	112.8	112.8
7.5°	128.5	122.2	116.7	112.0	108.0	105.7	103.3	101.7	100.9	100.9
10°	122.2	114.3	108.0	101.7	97.8	94.6	93.0	90.7	90.7	89.9
12.5°	115.1	105.7	98.6	93.0	89.1	85.2	82.8	81.2	80.4	80.4
15°	107.2	97.8	89.9	83.6	79.6	75.7	73.3	71.8	71.0	71.0
17.5°	99.3	89.1	81.2	74.9	71.0	67.0	64.7	63.1	63.1	62.3
20°	91.5	81.2	73.3	67.0	63.1	59.9	57.6	56.0	55.2	56.0
22.5°	84.4	74.1	66.2	60.7	56.0	52.8	50.5	49.7	48.9	48.9
25°	76.5	67.0	59.9	54.4	50.5	47.3	44.9	44.2	43.4	42.6
26°	74.1	64.7	57.6	52.0	48.1	44.9	43.4	41.8	41.0	41.0
27.5°	71.0	60.7	54.4	48.9	44.9	42.6	40.2	39.4	38.6	38.6
30°	63.9	55.2	48.9	44.2	41.0	37.8	36.3	35.5	34.7	34.7
32.5°	58.3	49.7	44.2	40.2	37.1	34.7	33.1	31.5	31.5	31.5
35°	52.8	44.9	40.2	36.3	33.1	30.8	30.0	29.2	28.4	28.4
37.5°	48.1	41.0	36.3	33.1	30.8	28.4	26.8	26.0	26.0	26.0
40°	43.4	37.8	33.1	30.0	27.6	26.0	24.4	23.7	23.7	23.7
42.5°	39.4	33.9	30.8	27.6	25.2	23.7	22.9	22.1	21.3	21.3
45°	36.3	31.5	27.6	25.2	23.7	22.1	20.5	19.7	19.7	19.7
47.5°	32.3	29.2	25.2	22.9	21.3	19.7	18.9	18.1	18.1	18.1
50°	30.0	26.8	23.7	21.3	19.7	18.1	17.3	16.6	16.6	16.6
52.5°	26.8	24.4	22.1	19.7	18.1	16.6	15.8	15.0	15.0	15.0
55°	24.4	22.1	19.7	18.1	16.6	15.0	14.2	13.4	13.4	13.4
57.5°	22.1	19.7	18.1	16.6	15.0	14.2	12.6	12.6	11.8	11.8
60°	19.7	17.3	15.8	15.0	13.4	12.6	11.0	10.3	10.3	10.3
62.5°	16.6	15.8	14.2	12.6	11.0	10.3	9.5	8.7	8.7	8.7
65°	14.2	13.4	11.8	10.3	9.5	8.7	7.9	7.1	7.1	7.1
67.5°	11.8	10.3	9.5	8.7	7.9	7.1	6.3	5.5	4.7	5.5
70°	8.7	7.9	7.1	6.3	5.5	4.7	3.9	3.9	3.2	3.2
72.5°	5.5	4.7	4.7	3.9	3.2	3.2	2.4	2.4	1.6	1.6
75°	3.2	3.2	2.4	2.4	1.6	1.6	0.8	0.8	0.8	0.8
77.5°	1.6	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)