

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: P1446424

Luminaire Tested: P3ART09R709727DE010 E3LCWW1H

Issue Date: 5/8/2026

Test Information

Test Method: LM-79-2019
Report Number: P1446424
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2509-551-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/8/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3ART09R709727DE010 E3LCWW1H
Description: 3in Adjustable LED luminaire with, R70 optic, 2700K CCT AND, 97CRI , E3LCWW1H TRIM
Light Source: -
Ballast/Driver: -

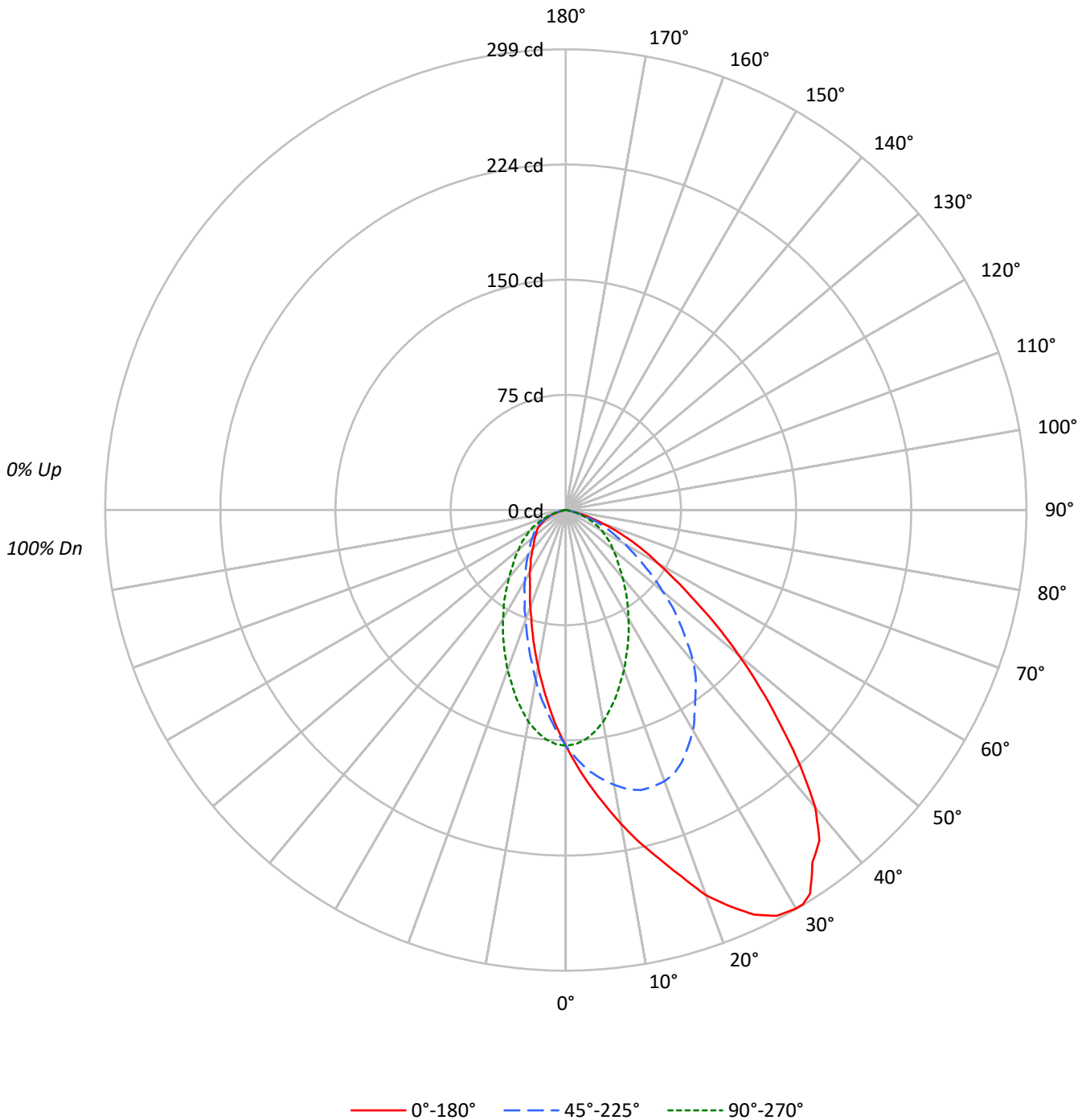
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 311.0 lumens
Efficiency: N/A
Efficacy: 28.0 lumens/watt
Spacing Criteria (0/90/45): 1.54 / 0.87 / 1.18
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11.1
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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100
1	111	107	103	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88	88	88
2	102	95	90	85	100	93	88	84	90	86	82	87	83	80	84	81	78	76	76	76
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66	66	66
4	87	77	69	63	85	75	68	62	73	67	62	71	65	61	69	64	60	58	58	58
5	81	69	61	55	79	68	61	55	66	59	54	64	58	54	62	57	53	51	51	51
6	75	63	55	49	73	62	54	49	60	53	48	59	53	48	57	52	47	46	46	46
7	70	57	49	44	68	57	49	44	55	48	43	54	48	43	52	47	43	41	41	41
8	65	53	45	39	64	52	45	39	51	44	39	50	43	39	48	43	39	37	37	37
9	61	49	41	36	60	48	41	36	47	40	36	46	40	35	45	39	35	34	34	34
10	57	45	38	33	56	45	37	33	44	37	33	43	37	32	42	36	32	31	31	31

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	33528	33528	33528	33528	33528
5°	39489	37354	32864	29166	27999
10°	46047	40324	31084	24983	23023
15°	53167	42724	28491	21067	18865
20°	62072	43707	25786	17735	15681
25°	70117	43406	23082	15170	13259
30°	75632	41829	20585	13420	11850
35°	74740	39270	18444	12073	10654
40°	72078	36926	16431	10878	9618
45°	61123	32624	14792	10141	9055
50°	50045	28042	13577	9654	8733
55°	38842	23321	12845	9443	8793
60°	30217	19384	12017	9298	8157
65°	23816	16033	10533	8717	7783
70°	16413	11925	8527	7373	6796
75°	8218	6778	6015	5253	4490
80°	1137	2273	3410	2273	1137
85°	0	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 61123 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.3	4.6
10°-20°	39.8	12.8
20°-30°	58.7	18.9
30°-40°	65.8	21.2
40°-50°	57.8	18.6
50°-60°	41.4	13.3
60°-70°	24.5	7.9
70°-80°	8.2	2.6
80°-90°	0.4	0.1
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°	112.8	36.3
0°-40°	178.6	57.4
0°-60°	277.9	89.3
0°-90°	311.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	311.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	153	153	153	153	153	
5°	179	170	149	132	127	18
15°	234	188	126	93	83	68
25°	290	179	95	63	55	133
35°	279	147	69	45	40	175
45°	197	105	48	33	29	152
55°	102	61	34	25	23	93
65°	46	31	20	17	15	46
75°	10	8	7	6	5	12
85°	0	0	0	0	0	0
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°	152.9	152.9	152.9	152.9	152.9	152.9	152.9	152.9	152.9	152.9	152.9
2.5°	166.1	166.1	166.1	164.4	164.4	161.7	159.9	157.3	155.5	152.9	152.0
5°	179.4	179.4	177.6	175.8	173.2	169.7	165.2	160.8	155.5	151.1	149.3
7.5°	192.6	193.5	190.9	187.3	182.0	175.8	169.7	162.6	154.6	148.5	144.9
10°	206.8	206.8	203.2	197.9	190.0	181.1	171.4	161.7	152.0	143.1	139.6
12.5°	220.9	220.0	215.6	207.7	197.9	185.6	172.3	159.9	148.5	137.8	132.5
15°	234.2	234.2	228.0	218.3	204.1	188.2	172.3	156.4	143.1	130.8	125.5
17.5°	249.2	249.2	241.2	226.2	208.5	188.2	169.7	152.0	137.0	123.7	117.5
20°	266.0	265.1	253.6	233.3	210.3	187.3	166.1	146.7	129.9	115.8	110.5
22.5°	278.3	277.5	264.2	239.5	211.2	184.7	159.9	139.6	122.8	108.7	102.5
25°	289.8	288.1	273.0	242.1	209.4	179.4	153.8	131.7	115.8	101.6	95.4
27.5°	296.9	296.0	279.2	241.2	205.0	172.3	145.8	124.6	107.8	93.7	88.4
30°	298.7	299.6	279.2	236.8	197.9	165.2	137.8	116.6	99.9	87.5	81.3
31°	298.7	299.6	277.5	234.2	195.3	161.7	134.3	114.0	96.3	83.9	78.6
32.5°	295.1	293.4	274.8	229.7	189.1	155.5	129.9	109.6	91.9	79.5	75.1
35°	279.2	280.1	266.0	220.0	180.3	146.7	121.1	100.7	83.9	73.3	68.9
37.5°	270.4	270.4	244.8	206.8	170.5	138.7	110.5	91.0	76.9	67.2	62.7
40°	251.8	249.2	225.3	192.6	159.1	129.0	104.3	84.8	70.7	61.0	57.4
42.5°	225.3	222.7	204.1	180.3	144.0	116.6	99.0	75.1	63.6	55.7	52.1
45°	197.1	195.3	181.1	159.1	129.9	105.2	85.7	68.9	58.3	50.4	47.7
47.5°	171.4	168.8	158.2	141.4	117.5	94.5	74.2	61.9	52.1	45.9	44.2
50°	146.7	145.8	137.0	123.7	104.3	82.2	65.4	54.8	47.7	42.4	39.8
52.5°	123.7	121.9	117.5	106.9	91.0	71.6	57.4	48.6	42.4	38.9	37.1
55°	101.6	101.6	97.2	90.1	77.8	61.0	50.4	43.3	38.0	35.3	33.6
57.5°	83.9	83.9	80.4	76.0	64.5	52.1	44.2	38.0	34.5	31.8	30.0
60°	68.9	68.9	66.3	61.9	53.9	44.2	38.0	33.6	30.9	28.3	27.4
62.5°	57.4	56.6	54.8	50.4	44.2	37.1	32.7	29.2	26.5	24.7	23.9
65°	45.9	45.1	43.3	39.8	35.3	30.9	27.4	24.7	23.0	21.2	20.3
67.5°	35.3	35.3	33.6	30.9	27.4	24.7	22.1	20.3	18.6	17.7	16.8
70°	25.6	25.6	24.7	23.0	20.3	18.6	16.8	15.9	15.0	14.1	13.3
72.5°	17.7	17.7	16.8	15.9	14.1	13.3	11.5	11.5	10.6	10.6	9.7
75°	9.7	9.7	9.7	8.8	8.8	8.0	8.0	8.0	7.1	7.1	7.1
77.5°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
80°	0.9	0.9	0.9	0.9	1.8	1.8	1.8	1.8	2.7	2.7	2.7
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9	0.9
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°	152.9	152.9	152.9	152.9	152.9	152.9	152.9	152.9	152.9	152.9
2.5°	151.1	148.5	146.7	145.8	143.1	142.3	141.4	140.5	140.5	140.5
5°	147.6	143.1	138.7	136.1	132.5	130.8	129.0	128.1	127.2	127.2
7.5°	141.4	136.1	130.8	126.4	122.8	119.3	117.5	115.8	115.8	114.9
10°	135.2	128.1	121.9	115.8	112.2	107.8	106.0	104.3	103.4	103.4
12.5°	128.1	119.3	112.2	106.9	101.6	98.1	95.4	93.7	92.8	92.8
15°	120.2	111.3	103.4	98.1	92.8	88.4	85.7	83.9	83.1	83.1
17.5°	112.2	103.4	94.5	89.2	83.9	79.5	77.8	76.0	75.1	74.2
20°	105.2	94.5	87.5	80.4	76.0	72.5	69.8	68.0	67.2	67.2
22.5°	97.2	87.5	79.5	74.2	69.8	66.3	62.7	61.9	61.0	61.0
25°	89.2	80.4	73.3	68.0	62.7	60.1	57.4	55.7	55.7	54.8
27.5°	83.1	74.2	67.2	61.9	58.3	54.8	53.0	51.3	50.4	50.4
30°	76.0	68.0	61.9	57.4	53.0	50.4	48.6	46.8	46.8	46.8
31°	74.2	66.3	60.1	54.8	51.3	48.6	46.8	45.9	45.1	45.1
32.5°	69.8	62.7	56.6	52.1	48.6	45.9	44.2	43.3	43.3	42.4
35°	64.5	57.4	52.1	47.7	45.1	42.4	40.6	39.8	39.8	39.8
37.5°	59.2	53.0	47.7	44.2	41.5	38.9	38.0	36.2	36.2	36.2
40°	53.9	48.6	44.2	40.6	38.0	36.2	35.3	34.5	33.6	33.6
42.5°	49.5	44.2	40.6	38.0	35.3	33.6	32.7	31.8	31.8	30.9
45°	45.1	40.6	38.0	35.3	32.7	31.8	30.9	30.0	29.2	29.2
47.5°	41.5	38.0	34.5	32.7	30.9	29.2	28.3	28.3	27.4	27.4
50°	38.0	34.5	31.8	30.0	28.3	27.4	26.5	26.5	25.6	25.6
52.5°	35.3	31.8	30.0	28.3	26.5	25.6	24.7	24.7	23.9	23.9
55°	31.8	29.2	27.4	26.5	24.7	23.9	23.0	22.1	22.1	23.0
57.5°	29.2	27.4	25.6	24.7	23.0	22.1	21.2	21.2	20.3	21.2
60°	26.5	24.7	23.0	22.1	21.2	20.3	19.4	18.6	18.6	18.6
62.5°	23.9	22.1	21.2	19.4	18.6	18.6	17.7	17.7	17.7	16.8
65°	20.3	19.4	18.6	17.7	16.8	15.9	15.9	15.0	15.0	15.0
67.5°	16.8	15.9	15.0	15.0	14.1	13.3	13.3	13.3	13.3	12.4
70°	13.3	12.4	12.4	11.5	11.5	11.5	10.6	10.6	10.6	10.6
72.5°	9.7	9.7	8.8	8.8	8.8	8.8	8.0	8.0	8.0	8.0
75°	7.1	7.1	7.1	6.2	6.2	6.2	5.3	5.3	5.3	5.3
77.5°	4.4	4.4	4.4	4.4	4.4	3.5	3.5	3.5	3.5	3.5
80°	2.7	2.7	2.7	2.7	1.8	1.8	1.8	1.8	1.8	0.9
82.5°	0.9	0.9	0.9	0.9	0.9	0.9	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)