

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: P1446320

Luminaire Tested: P3ART13R709727DE010 E3LCWW1H

Issue Date: 5/8/2026

Test Information

Test Method: LM-79-2019
Report Number: P1446320
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: P3ART13R709727DE010 E3LCWW1H
Description: 3in Adjustable LED luminaire with, R70 optic, 2700K CCT AND, 97CRI , E3LCWW1H TRIM
Light Source: -
Ballast/Driver: -

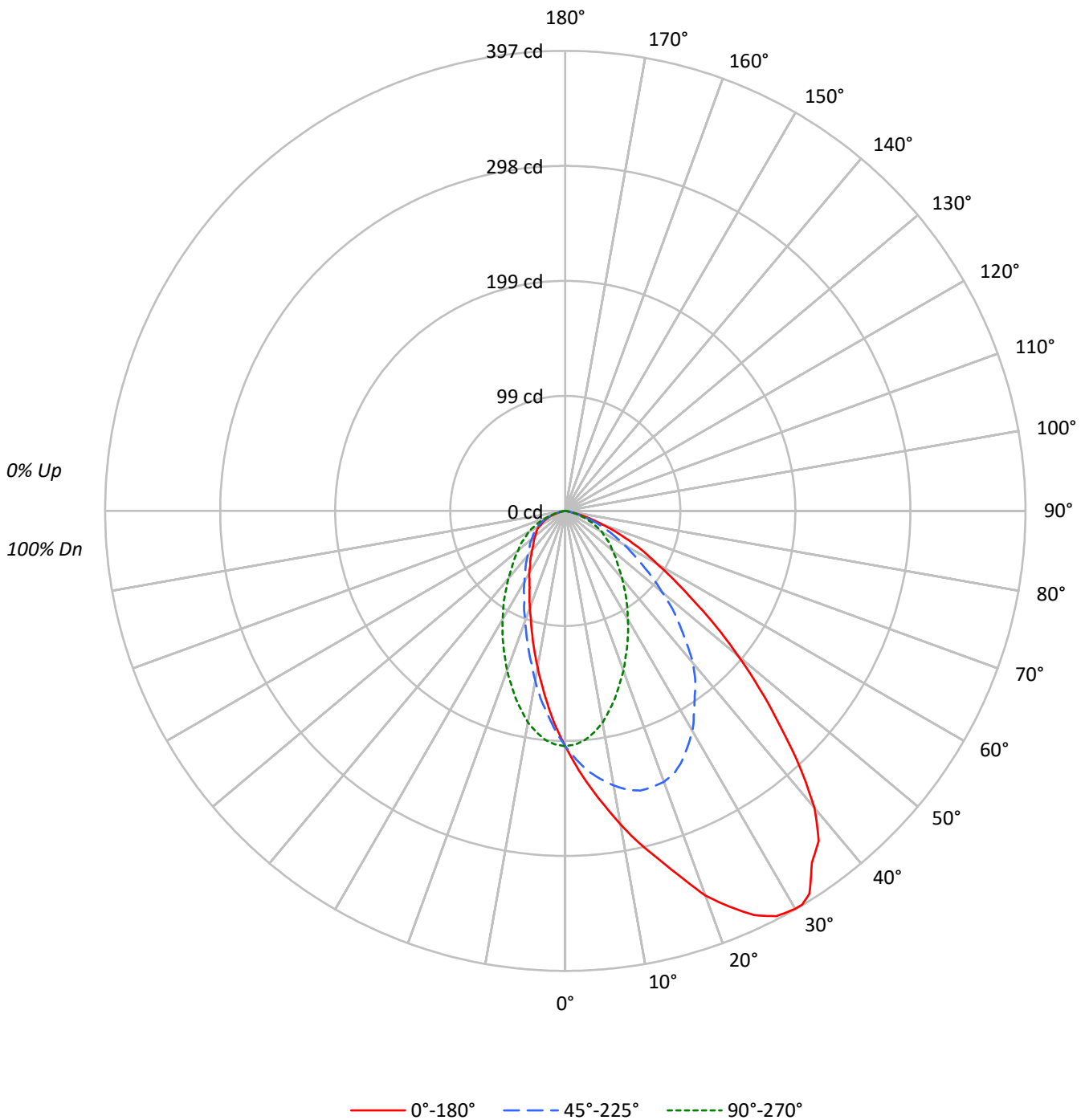
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 413.0 lumens
Efficiency: N/A
Efficacy: 28.3 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): 14.6
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°	44514	44514	44514	44514	44514
5°	52432	49593	43649	38741	37200
10°	61143	53573	41282	33177	30572
15°	70602	56731	37821	27968	25040
20°	82420	58058	34233	23545	20815
25°	93126	57632	30655	20154	17614
30°	100421	55553	27346	17826	15749
35°	99260	52146	24494	16008	14134
40°	95722	49035	21841	14456	12767
45°	81156	43291	19661	13459	12001
50°	66454	37218	18012	12827	11599
55°	51573	30967	17051	12578	11660
60°	40128	25744	15964	12367	10789
65°	31651	21325	14009	11571	10325
70°	21799	15772	11284	9809	9040
75°	10929	8981	7964	6947	5931
80°	1515	2904	4420	2904	1515
85°	0	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 81156 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19.0	4.6
10°-20°	52.9	12.8
20°-30°	77.9	18.9
30°-40°	87.4	21.2
40°-50°	76.8	18.6
50°-60°	55.0	13.3
60°-70°	32.6	7.9
70°-80°	10.9	2.6
80°-90°	0.5	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°	149.8	36.3
0°-40°	237.2	57.4
0°-60°	369.0	89.3
0°-90°	413.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	413.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	203	203	203	203	203	
5°	238	225	198	176	169	24
15°	311	250	167	123	110	90
25°	385	238	127	83	73	177
35°	371	195	92	60	53	233
45°	262	140	63	43	39	202
55°	135	81	45	33	30	123
65°	61	41	27	22	20	61
75°	13	11	9	8	7	16
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°	203.0	203.0	203.0	203.0	203.0	203.0	203.0	203.0	203.0	203.0	203.0
2.5°	220.6	220.6	220.6	218.3	218.3	214.7	212.4	208.9	206.5	203.0	201.8
5°	238.2	238.2	235.9	233.5	230.0	225.3	219.4	213.6	206.5	200.7	198.3
7.5°	255.8	257.0	253.5	248.8	241.7	233.5	225.3	215.9	205.4	197.1	192.4
10°	274.6	274.6	269.9	262.9	252.3	240.6	227.6	214.7	201.8	190.1	185.4
12.5°	293.4	292.2	286.3	275.8	262.9	246.4	228.8	212.4	197.1	183.1	176.0
15°	311.0	311.0	302.8	289.8	271.1	249.9	228.8	207.7	190.1	173.7	166.6
17.5°	330.9	330.9	320.4	300.4	276.9	249.9	225.3	201.8	181.9	164.3	156.1
20°	353.2	352.0	336.8	309.8	279.3	248.8	220.6	194.8	172.5	153.7	146.7
22.5°	369.6	368.5	350.9	318.0	280.5	245.3	212.4	185.4	163.1	144.3	136.1
25°	384.9	382.5	362.6	321.5	278.1	238.2	204.2	174.8	153.7	134.9	126.7
27.5°	394.3	393.1	370.8	320.4	272.2	228.8	193.6	165.5	143.2	124.4	117.3
30°	396.6	397.8	370.8	314.5	262.9	219.4	183.1	154.9	132.6	116.2	108.0
31°	396.6	397.8	368.5	311.0	259.3	214.7	178.4	151.4	127.9	111.5	104.4
32.5°	391.9	389.6	364.9	305.1	251.1	206.5	172.5	145.5	122.0	105.6	99.7
35°	370.8	372.0	353.2	292.2	239.4	194.8	160.8	133.8	111.5	97.4	91.5
37.5°	359.1	359.1	325.0	274.6	226.5	184.2	146.7	120.9	102.1	89.2	83.3
40°	334.4	330.9	299.2	255.8	211.2	171.3	138.5	112.7	93.9	81.0	76.3
42.5°	299.2	295.7	271.1	239.4	191.3	154.9	131.4	99.7	84.5	73.9	69.2
45°	261.7	259.3	240.6	211.2	172.5	139.6	113.8	91.5	77.4	66.9	63.4
47.5°	227.6	224.1	210.0	187.8	156.1	125.6	98.6	82.1	69.2	61.0	58.7
50°	194.8	193.6	181.9	164.3	138.5	109.1	86.8	72.8	63.4	56.3	52.8
52.5°	164.3	161.9	156.1	142.0	120.9	95.0	76.3	64.5	56.3	51.6	49.3
55°	134.9	134.9	129.1	119.7	103.3	81.0	66.9	57.5	50.5	46.9	44.6
57.5°	111.5	111.5	106.8	100.9	85.7	69.2	58.7	50.5	45.8	42.2	39.9
60°	91.5	91.5	88.0	82.1	71.6	58.7	50.5	44.6	41.1	37.6	36.4
62.5°	76.3	75.1	72.8	66.9	58.7	49.3	43.4	38.7	35.2	32.9	31.7
65°	61.0	59.8	57.5	52.8	46.9	41.1	36.4	32.9	30.5	28.2	27.0
67.5°	46.9	46.9	44.6	41.1	36.4	32.9	29.3	27.0	24.6	23.5	22.3
70°	34.0	34.0	32.9	30.5	27.0	24.6	22.3	21.1	19.9	18.8	17.6
72.5°	23.5	23.5	22.3	21.1	18.8	17.6	15.3	15.3	14.1	14.1	12.9
75°	12.9	12.9	12.9	11.7	11.7	10.6	10.6	10.6	9.4	9.4	9.4
77.5°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
80°	1.2	1.2	1.2	1.2	2.3	2.3	2.3	2.3	3.5	3.5	3.5
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2	1.2
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°	203.0	203.0	203.0	203.0	203.0	203.0	203.0	203.0	203.0	203.0
2.5°	200.7	197.1	194.8	193.6	190.1	188.9	187.8	186.6	186.6	186.6
5°	196.0	190.1	184.2	180.7	176.0	173.7	171.3	170.2	169.0	169.0
7.5°	187.8	180.7	173.7	167.8	163.1	158.4	156.1	153.7	153.7	152.5
10°	179.5	170.2	161.9	153.7	149.0	143.2	140.8	138.5	137.3	137.3
12.5°	170.2	158.4	149.0	142.0	134.9	130.3	126.7	124.4	123.2	123.2
15°	159.6	147.9	137.3	130.3	123.2	117.3	113.8	111.5	110.3	110.3
17.5°	149.0	137.3	125.6	118.5	111.5	105.6	103.3	100.9	99.7	98.6
20°	139.6	125.6	116.2	106.8	100.9	96.2	92.7	90.4	89.2	89.2
22.5°	129.1	116.2	105.6	98.6	92.7	88.0	83.3	82.1	81.0	81.0
25°	118.5	106.8	97.4	90.4	83.3	79.8	76.3	73.9	73.9	72.8
27.5°	110.3	98.6	89.2	82.1	77.4	72.8	70.4	68.1	66.9	66.9
30°	100.9	90.4	82.1	76.3	70.4	66.9	64.5	62.2	62.2	62.2
31°	98.6	88.0	79.8	72.8	68.1	64.5	62.2	61.0	59.8	59.8
32.5°	92.7	83.3	75.1	69.2	64.5	61.0	58.7	57.5	57.5	56.3
35°	85.7	76.3	69.2	63.4	59.8	56.3	54.0	52.8	52.8	52.8
37.5°	78.6	70.4	63.4	58.7	55.2	51.6	50.5	48.1	48.1	48.1
40°	71.6	64.5	58.7	54.0	50.5	48.1	46.9	45.8	44.6	44.6
42.5°	65.7	58.7	54.0	50.5	46.9	44.6	43.4	42.2	42.2	41.1
45°	59.8	54.0	50.5	46.9	43.4	42.2	41.1	39.9	38.7	38.7
47.5°	55.2	50.5	45.8	43.4	41.1	38.7	37.6	37.6	36.4	36.4
50°	50.5	45.8	42.2	39.9	37.6	36.4	35.2	35.2	34.0	34.0
52.5°	46.9	42.2	39.9	37.6	35.2	34.0	32.9	32.9	31.7	31.7
55°	42.2	38.7	36.4	35.2	32.9	31.7	30.5	29.3	29.3	30.5
57.5°	38.7	36.4	34.0	32.9	30.5	29.3	28.2	28.2	27.0	28.2
60°	35.2	32.9	30.5	29.3	28.2	27.0	25.8	24.6	24.6	24.6
62.5°	31.7	29.3	28.2	25.8	24.6	24.6	23.5	23.5	23.5	22.3
65°	27.0	25.8	24.6	23.5	22.3	21.1	21.1	19.9	19.9	19.9
67.5°	22.3	21.1	19.9	19.9	18.8	17.6	17.6	17.6	17.6	16.4
70°	17.6	16.4	16.4	15.3	15.3	15.3	14.1	14.1	14.1	14.1
72.5°	12.9	12.9	11.7	11.7	11.7	11.7	10.6	10.6	10.6	10.6
75°	9.4	9.4	9.4	8.2	8.2	8.2	7.0	7.0	7.0	7.0
77.5°	5.9	5.9	5.9	5.9	5.9	4.7	4.7	4.7	4.7	4.7
80°	3.5	3.5	3.5	3.5	2.3	2.3	2.3	2.3	2.3	1.2
82.5°	1.2	1.2	1.2	1.2	1.2	1.2	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)