

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: P3ART13R70W2N902765DE010 E3LCWW1GPH_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 (G1-2509-551-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/8/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3ART13R70W2N902765DE010 E3LCWW1GPH_3500K
Description: 3in Adjustable Tunable White LED luminaire with, R70 optic, 3500K CCT AND, 90CRI ,
E3LCWW1GPH TRIM
Light Source: -
Ballast/Driver: -

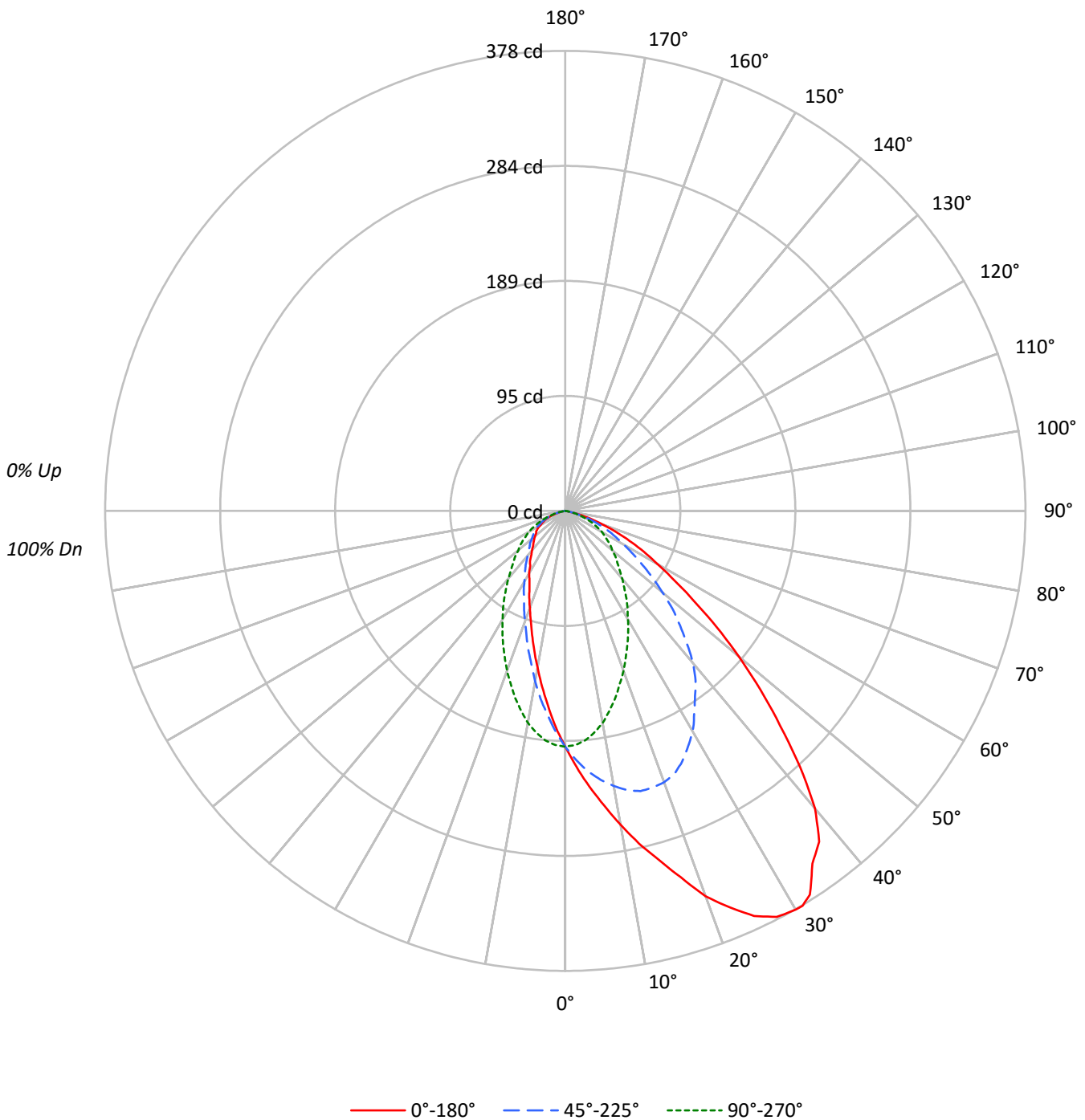
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 394.0 lumens
Efficiency: N/A
Efficacy: 32.0 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): 12.3
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	102	102	100
1	111	107	103	100	108	105	102	99	101	98	96	97	95	93	93	92	90	90	90	88
2	102	95	90	85	100	93	88	84	90	86	82	87	83	80	84	81	78	78	78	76
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	68	68	66
4	87	77	69	63	85	75	68	62	73	67	62	71	65	61	69	64	60	60	60	58
5	81	69	61	55	79	68	61	55	66	59	54	64	58	54	62	57	53	53	53	51
6	75	63	55	49	73	62	54	49	60	53	48	59	53	48	57	52	47	47	47	46
7	70	57	49	44	68	57	49	44	55	48	43	54	48	43	52	47	43	43	43	41
8	65	53	45	39	64	52	45	39	51	44	39	50	43	39	48	43	39	39	39	37
9	61	49	41	36	60	48	41	36	47	40	36	46	40	35	45	39	35	35	35	34
10	57	45	38	33	56	45	37	33	44	37	33	43	37	32	42	36	32	32	32	31

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	42475	42475	42475	42475	42475
5°	50033	47303	41646	36958	35483
10°	58338	51101	39389	31663	29169
15°	67356	54121	36096	26674	23882
20°	78640	55375	32646	22472	19858
25°	88844	54995	29252	19235	16791
30°	95812	52995	26080	17015	15015
35°	94710	49737	23370	15285	13492
40°	91314	46773	20839	13769	12166
45°	77403	41307	18762	12839	11443
50°	63384	35513	17193	12213	11087
55°	49203	29514	16248	11966	11125
60°	38286	24559	15218	11797	10306
65°	30198	20339	13335	11052	9858
70°	20837	15067	10771	9361	8591
75°	10421	8557	7625	6608	5676
80°	1389	2778	4293	2778	1389
85°	0	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 77403 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	18.1	4.6
10°-20°	50.5	12.8
20°-30°	74.4	18.9
30°-40°	83.4	21.2
40°-50°	73.3	18.6
50°-60°	52.4	13.3
60°-70°	31.1	7.9
70°-80°	10.4	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°	142.9	36.3
0°-40°	226.3	57.4
0°-60°	352.0	89.3
0°-90°	394.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	394.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	194	194	194	194	194	
5°	227	215	189	168	161	23
15°	297	238	159	118	105	86
25°	367	227	121	80	69	169
35°	354	186	87	57	50	222
45°	250	133	60	41	37	193
55°	129	77	42	31	29	118
65°	58	39	26	21	19	58
75°	12	10	9	8	7	15
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P#
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	193.7	193.7	193.7	193.7	193.7	193.7	193.7	193.7	193.7	193.7	193.7
2.5°	210.5	210.5	210.5	208.2	208.2	204.9	202.6	199.3	197.0	193.7	192.5
5°	227.3	227.3	225.0	222.8	219.4	214.9	209.3	203.7	197.0	191.4	189.2
7.5°	244.0	245.2	241.8	237.3	230.6	222.8	214.9	206.0	195.9	188.1	183.6
10°	262.0	262.0	257.5	250.8	240.7	229.5	217.2	204.9	192.5	181.4	176.9
12.5°	279.9	278.7	273.1	263.1	250.8	235.1	218.3	202.6	188.1	174.6	167.9
15°	296.7	296.7	288.8	276.5	258.6	238.4	218.3	198.1	181.4	165.7	159.0
17.5°	315.7	315.7	305.6	286.6	264.2	238.4	214.9	192.5	173.5	156.7	148.9
20°	337.0	335.8	321.3	295.5	266.4	237.3	210.5	185.8	164.6	146.6	139.9
22.5°	352.6	351.5	334.7	303.4	267.6	234.0	202.6	176.9	155.6	137.7	129.9
25°	367.2	364.9	345.9	306.7	265.3	227.3	194.8	166.8	146.6	128.7	120.9
27.5°	376.1	375.0	353.8	305.6	259.7	218.3	184.7	157.8	136.6	118.7	111.9
30°	378.4	379.5	353.8	300.0	250.8	209.3	174.6	147.8	126.5	110.8	103.0
31°	378.4	379.5	351.5	296.7	247.4	204.9	170.2	144.4	122.0	106.3	99.6
32.5°	373.9	371.7	348.2	291.1	239.6	197.0	164.6	138.8	116.4	100.8	95.2
35°	353.8	354.9	337.0	278.7	228.4	185.8	153.4	127.6	106.3	92.9	87.3
37.5°	342.6	342.6	310.1	262.0	216.1	175.8	139.9	115.3	97.4	85.1	79.5
40°	319.0	315.7	285.5	244.0	201.5	163.4	132.1	107.5	89.6	77.2	72.8
42.5°	285.5	282.1	258.6	228.4	182.5	147.8	125.4	95.2	80.6	70.5	66.0
45°	249.6	247.4	229.5	201.5	164.6	133.2	108.6	87.3	73.9	63.8	60.5
47.5°	217.2	213.8	200.4	179.1	148.9	119.8	94.0	78.4	66.0	58.2	56.0
50°	185.8	184.7	173.5	156.7	132.1	104.1	82.8	69.4	60.5	53.7	50.4
52.5°	156.7	154.5	148.9	135.5	115.3	90.7	72.8	61.6	53.7	49.3	47.0
55°	128.7	128.7	123.1	114.2	98.5	77.2	63.8	54.9	48.1	44.8	42.5
57.5°	106.3	106.3	101.9	96.3	81.7	66.0	56.0	48.1	43.7	40.3	38.1
60°	87.3	87.3	84.0	78.4	68.3	56.0	48.1	42.5	39.2	35.8	34.7
62.5°	72.8	71.6	69.4	63.8	56.0	47.0	41.4	36.9	33.6	31.3	30.2
65°	58.2	57.1	54.9	50.4	44.8	39.2	34.7	31.3	29.1	26.9	25.7
67.5°	44.8	44.8	42.5	39.2	34.7	31.3	28.0	25.7	23.5	22.4	21.3
70°	32.5	32.5	31.3	29.1	25.7	23.5	21.3	20.2	19.0	17.9	16.8
72.5°	22.4	22.4	21.3	20.2	17.9	16.8	14.6	14.6	13.4	13.4	12.3
75°	12.3	12.3	12.3	11.2	11.2	10.1	10.1	10.1	9.0	9.0	9.0
77.5°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
80°	1.1	1.1	1.1	1.1	2.2	2.2	2.2	2.2	3.4	3.4	3.4
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1
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°	193.7	193.7	193.7	193.7	193.7	193.7	193.7	193.7	193.7	193.7
2.5°	191.4	188.1	185.8	184.7	181.4	180.2	179.1	178.0	178.0	178.0
5°	187.0	181.4	175.8	172.4	167.9	165.7	163.4	162.3	161.2	161.2
7.5°	179.1	172.4	165.7	160.1	155.6	151.1	148.9	146.6	146.6	145.5
10°	171.3	162.3	154.5	146.6	142.2	136.6	134.3	132.1	131.0	131.0
12.5°	162.3	151.1	142.2	135.5	128.7	124.3	120.9	118.7	117.5	117.5
15°	152.2	141.1	131.0	124.3	117.5	111.9	108.6	106.3	105.2	105.2
17.5°	142.2	131.0	119.8	113.1	106.3	100.8	98.5	96.3	95.2	94.0
20°	133.2	119.8	110.8	101.9	96.3	91.8	88.4	86.2	85.1	85.1
22.5°	123.1	110.8	100.8	94.0	88.4	84.0	79.5	78.4	77.2	77.2
25°	113.1	101.9	92.9	86.2	79.5	76.1	72.8	70.5	70.5	69.4
27.5°	105.2	94.0	85.1	78.4	73.9	69.4	67.2	64.9	63.8	63.8
30°	96.3	86.2	78.4	72.8	67.2	63.8	61.6	59.3	59.3	59.3
31°	94.0	84.0	76.1	69.4	64.9	61.6	59.3	58.2	57.1	57.1
32.5°	88.4	79.5	71.6	66.0	61.6	58.2	56.0	54.9	54.9	53.7
35°	81.7	72.8	66.0	60.5	57.1	53.7	51.5	50.4	50.4	50.4
37.5°	75.0	67.2	60.5	56.0	52.6	49.3	48.1	45.9	45.9	45.9
40°	68.3	61.6	56.0	51.5	48.1	45.9	44.8	43.7	42.5	42.5
42.5°	62.7	56.0	51.5	48.1	44.8	42.5	41.4	40.3	40.3	39.2
45°	57.1	51.5	48.1	44.8	41.4	40.3	39.2	38.1	36.9	36.9
47.5°	52.6	48.1	43.7	41.4	39.2	36.9	35.8	35.8	34.7	34.7
50°	48.1	43.7	40.3	38.1	35.8	34.7	33.6	33.6	32.5	32.5
52.5°	44.8	40.3	38.1	35.8	33.6	32.5	31.3	31.3	30.2	30.2
55°	40.3	36.9	34.7	33.6	31.3	30.2	29.1	28.0	28.0	29.1
57.5°	36.9	34.7	32.5	31.3	29.1	28.0	26.9	26.9	25.7	26.9
60°	33.6	31.3	29.1	28.0	26.9	25.7	24.6	23.5	23.5	23.5
62.5°	30.2	28.0	26.9	24.6	23.5	23.5	22.4	22.4	22.4	21.3
65°	25.7	24.6	23.5	22.4	21.3	20.2	20.2	19.0	19.0	19.0
67.5°	21.3	20.2	19.0	19.0	17.9	16.8	16.8	16.8	16.8	15.7
70°	16.8	15.7	15.7	14.6	14.6	14.6	13.4	13.4	13.4	13.4
72.5°	12.3	12.3	11.2	11.2	11.2	11.2	10.1	10.1	10.1	10.1
75°	9.0	9.0	9.0	7.8	7.8	7.8	6.7	6.7	6.7	6.7
77.5°	5.6	5.6	5.6	5.6	5.6	4.5	4.5	4.5	4.5	4.5
80°	3.4	3.4	3.4	3.4	2.2	2.2	2.2	2.2	2.2	1.1
82.5°	1.1	1.1	1.1	1.1	1.1	1.1	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)