

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: P3ART09R70W2N902765DE010 E3LCWW1GPH_3000K

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: P3ART09R70W2N902765DE010 E3LCWW1GPH_3000K
Description: 3in Adjustable Tunable White LED luminaire with, R70 optic, 3000K CCT AND, 90CRI ,
E3LCWW1GPH TRIM
Light Source: -
Ballast/Driver: -

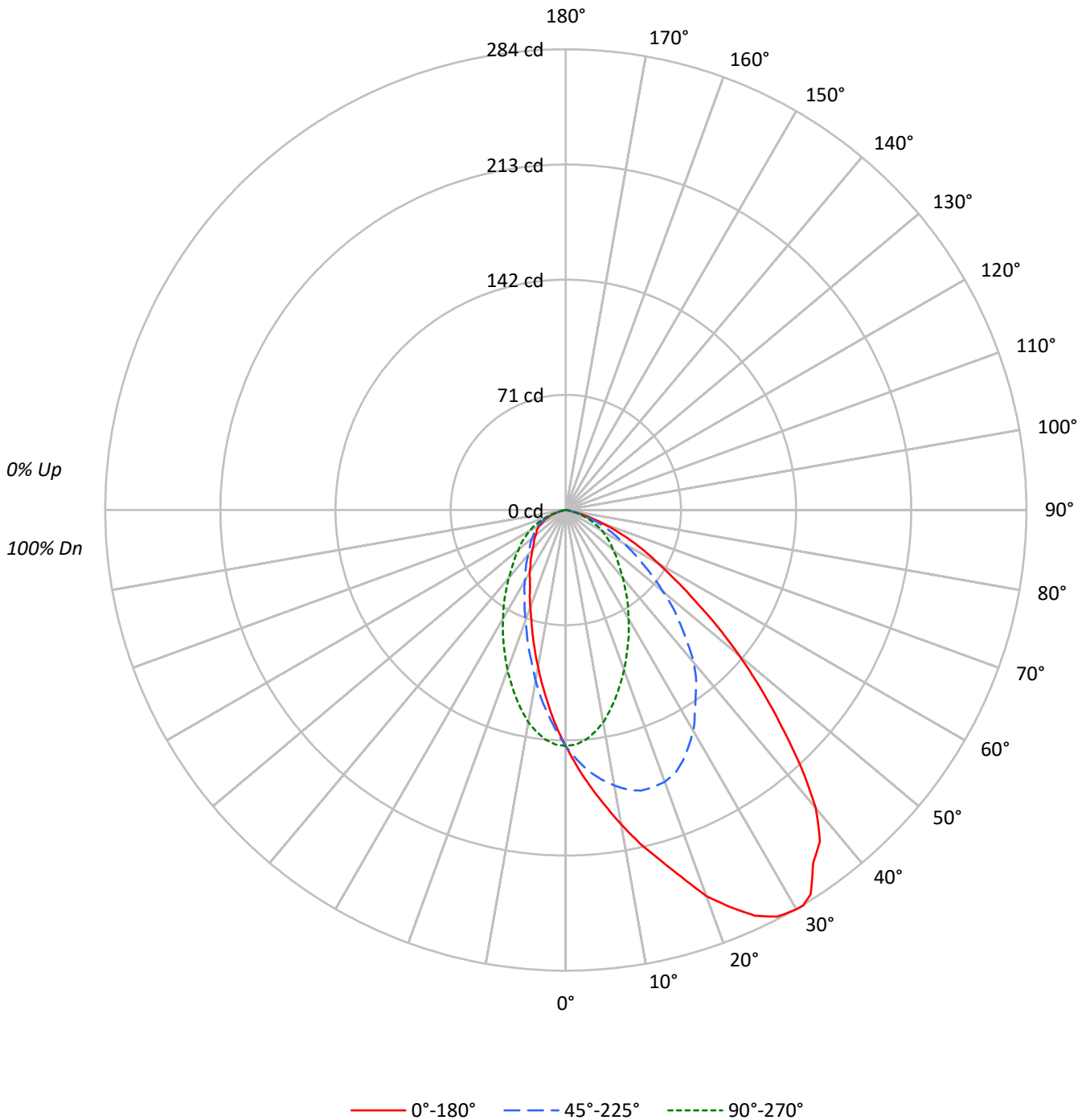
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 296.0 lumens
Efficiency: N/A
Efficacy: 32.9 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): 9
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	107	103	100	108	105	102	99	101	98	96	97	95	93	93	92	90	93	92	90	88
2	102	95	90	85	100	93	88	84	90	86	82	87	83	80	84	81	78	84	81	78	76
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	76	72	68	66
4	87	77	69	63	85	75	68	62	73	67	62	71	65	61	69	64	60	69	64	60	58
5	81	69	61	55	79	68	61	55	66	59	54	64	58	54	62	57	53	62	57	53	51
6	75	63	55	49	73	62	54	49	60	53	48	59	53	48	57	52	47	57	52	47	46
7	70	57	49	44	68	57	49	44	55	48	43	54	48	43	52	47	43	52	47	43	41
8	65	53	45	39	64	52	45	39	51	44	39	50	43	39	48	43	39	48	43	39	37
9	61	49	41	36	60	48	41	36	47	40	36	46	40	35	45	39	35	45	39	35	34
10	57	45	38	33	56	45	37	33	44	37	33	43	37	32	42	36	32	42	36	32	31

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	31905	31905	31905	31905	31905
5°	37574	35549	31279	27779	26656
10°	43820	38387	29592	23780	21910
15°	50602	40659	27106	20046	17957
20°	59062	41607	24525	16871	14911
25°	66754	41301	21969	14444	12606
30°	71986	39829	19598	12787	11293
35°	71153	37370	17561	11484	10119
40°	68614	35152	15658	10362	9160
45°	58146	31042	14079	9644	8621
50°	47623	26677	12895	9177	8324
55°	36969	22174	12234	8984	8372
60°	28770	18463	11446	8859	7763
65°	22674	15255	10014	8302	7420
70°	15644	11348	8078	6988	6475
75°	7879	6439	5676	4999	4236
80°	1010	2147	3157	2147	1010
85°	0	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 58146 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.6	4.6
10°-20°	37.9	12.8
20°-30°	55.9	18.9
30°-40°	62.6	21.2
40°-50°	55.1	18.6
50°-60°	39.4	13.3
60°-70°	23.3	7.9
70°-80°	7.8	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°	107.4	36.3
0°-40°	170.0	57.4
0°-60°	264.5	89.3
0°-90°	296.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	296.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	146	146	146	146	146	
5°	171	162	142	126	121	17
15°	223	179	119	88	79	64
25°	276	171	91	60	52	127
35°	266	140	66	43	38	167
45°	188	100	45	31	28	145
55°	97	58	32	24	22	88
65°	44	29	19	16	14	44
75°	9	8	7	6	5	11
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°	145.5	145.5	145.5	145.5	145.5	145.5	145.5	145.5	145.5	145.5	145.5
2.5°	158.1	158.1	158.1	156.4	156.4	153.9	152.2	149.7	148.0	145.5	144.7
5°	170.7	170.7	169.0	167.4	164.8	161.5	157.3	153.1	148.0	143.8	142.1
7.5°	183.3	184.2	181.7	178.3	173.3	167.4	161.5	154.7	147.2	141.3	137.9
10°	196.8	196.8	193.4	188.4	180.8	172.4	163.2	153.9	144.7	136.2	132.9
12.5°	210.3	209.4	205.2	197.6	188.4	176.6	164.0	152.2	141.3	131.2	126.2
15°	222.9	222.9	217.0	207.7	194.3	179.1	164.0	148.9	136.2	124.5	119.4
17.5°	237.2	237.2	229.6	215.3	198.5	179.1	161.5	144.7	130.4	117.7	111.9
20°	253.1	252.3	241.4	222.0	200.2	178.3	158.1	139.6	123.6	110.2	105.1
22.5°	264.9	264.1	251.5	227.9	201.0	175.8	152.2	132.9	116.9	103.4	97.6
25°	275.9	274.2	259.9	230.4	199.3	170.7	146.3	125.3	110.2	96.7	90.8
27.5°	282.6	281.7	265.8	229.6	195.1	164.0	138.8	118.6	102.6	89.1	84.1
30°	284.3	285.1	265.8	225.4	188.4	157.3	131.2	111.0	95.0	83.3	77.4
31°	284.3	285.1	264.1	222.9	185.9	153.9	127.8	108.5	91.7	79.9	74.9
32.5°	280.9	279.2	261.6	218.7	180.0	148.0	123.6	104.3	87.5	75.7	71.5
35°	265.8	266.6	253.1	209.4	171.6	139.6	115.2	95.9	79.9	69.8	65.6
37.5°	257.4	257.4	233.0	196.8	162.3	132.0	105.1	86.6	73.2	63.9	59.7
40°	239.7	237.2	214.5	183.3	151.4	122.8	99.2	80.7	67.3	58.0	54.7
42.5°	214.5	211.9	194.3	171.6	137.1	111.0	94.2	71.5	60.6	53.0	49.6
45°	187.5	185.9	172.4	151.4	123.6	100.1	81.6	65.6	55.5	47.9	45.4
47.5°	163.2	160.6	150.5	134.6	111.9	90.0	70.6	58.9	49.6	43.7	42.1
50°	139.6	138.8	130.4	117.7	99.2	78.2	62.2	52.1	45.4	40.4	37.8
52.5°	117.7	116.1	111.9	101.8	86.6	68.1	54.7	46.3	40.4	37.0	35.3
55°	96.7	96.7	92.5	85.8	74.0	58.0	47.9	41.2	36.2	33.6	32.0
57.5°	79.9	79.9	76.5	72.3	61.4	49.6	42.1	36.2	32.8	30.3	28.6
60°	65.6	65.6	63.1	58.9	51.3	42.1	36.2	32.0	29.4	26.9	26.1
62.5°	54.7	53.8	52.1	47.9	42.1	35.3	31.1	27.8	25.2	23.5	22.7
65°	43.7	42.9	41.2	37.8	33.6	29.4	26.1	23.5	21.9	20.2	19.3
67.5°	33.6	33.6	32.0	29.4	26.1	23.5	21.0	19.3	17.7	16.8	16.0
70°	24.4	24.4	23.5	21.9	19.3	17.7	16.0	15.1	14.3	13.5	12.6
72.5°	16.8	16.8	16.0	15.1	13.5	12.6	10.9	10.9	10.1	10.1	9.3
75°	9.3	9.3	9.3	8.4	8.4	7.6	7.6	7.6	6.7	6.7	6.7
77.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
80°	0.8	0.8	0.8	0.8	1.7	1.7	1.7	1.7	2.5	2.5	2.5
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8
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°	145.5	145.5	145.5	145.5	145.5	145.5	145.5	145.5	145.5	145.5
2.5°	143.8	141.3	139.6	138.8	136.2	135.4	134.6	133.7	133.7	133.7
5°	140.5	136.2	132.0	129.5	126.2	124.5	122.8	121.9	121.1	121.1
7.5°	134.6	129.5	124.5	120.3	116.9	113.5	111.9	110.2	110.2	109.3
10°	128.7	121.9	116.1	110.2	106.8	102.6	100.9	99.2	98.4	98.4
12.5°	121.9	113.5	106.8	101.8	96.7	93.4	90.8	89.1	88.3	88.3
15°	114.4	106.0	98.4	93.4	88.3	84.1	81.6	79.9	79.1	79.1
17.5°	106.8	98.4	90.0	84.9	79.9	75.7	74.0	72.3	71.5	70.6
20°	100.1	90.0	83.3	76.5	72.3	69.0	66.4	64.8	63.9	63.9
22.5°	92.5	83.3	75.7	70.6	66.4	63.1	59.7	58.9	58.0	58.0
25°	84.9	76.5	69.8	64.8	59.7	57.2	54.7	53.0	53.0	52.1
27.5°	79.1	70.6	63.9	58.9	55.5	52.1	50.5	48.8	47.9	47.9
30°	72.3	64.8	58.9	54.7	50.5	47.9	46.3	44.6	44.6	44.6
31°	70.6	63.1	57.2	52.1	48.8	46.3	44.6	43.7	42.9	42.9
32.5°	66.4	59.7	53.8	49.6	46.3	43.7	42.1	41.2	41.2	40.4
35°	61.4	54.7	49.6	45.4	42.9	40.4	38.7	37.8	37.8	37.8
37.5°	56.3	50.5	45.4	42.1	39.5	37.0	36.2	34.5	34.5	34.5
40°	51.3	46.3	42.1	38.7	36.2	34.5	33.6	32.8	32.0	32.0
42.5°	47.1	42.1	38.7	36.2	33.6	32.0	31.1	30.3	30.3	29.4
45°	42.9	38.7	36.2	33.6	31.1	30.3	29.4	28.6	27.8	27.8
47.5°	39.5	36.2	32.8	31.1	29.4	27.8	26.9	26.9	26.1	26.1
50°	36.2	32.8	30.3	28.6	26.9	26.1	25.2	25.2	24.4	24.4
52.5°	33.6	30.3	28.6	26.9	25.2	24.4	23.5	23.5	22.7	22.7
55°	30.3	27.8	26.1	25.2	23.5	22.7	21.9	21.0	21.0	21.9
57.5°	27.8	26.1	24.4	23.5	21.9	21.0	20.2	20.2	19.3	20.2
60°	25.2	23.5	21.9	21.0	20.2	19.3	18.5	17.7	17.7	17.7
62.5°	22.7	21.0	20.2	18.5	17.7	17.7	16.8	16.8	16.8	16.0
65°	19.3	18.5	17.7	16.8	16.0	15.1	15.1	14.3	14.3	14.3
67.5°	16.0	15.1	14.3	14.3	13.5	12.6	12.6	12.6	12.6	11.8
70°	12.6	11.8	11.8	10.9	10.9	10.9	10.1	10.1	10.1	10.1
72.5°	9.3	9.3	8.4	8.4	8.4	8.4	7.6	7.6	7.6	7.6
75°	6.7	6.7	6.7	5.9	5.9	5.9	5.0	5.0	5.0	5.0
77.5°	4.2	4.2	4.2	4.2	4.2	3.4	3.4	3.4	3.4	3.4
80°	2.5	2.5	2.5	2.5	1.7	1.7	1.7	1.7	1.7	0.8
82.5°	0.8	0.8	0.8	0.8	0.8	0.8	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)