

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: P3ART09R70W2N902750DE010 E3LCWW1GPH_5000K

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: P3ART09R70W2N902750DE010 E3LCWW1GPH_5000K
Description: 3in Adjustable Tunable White LED luminaire with, R70 optic, 5000K CCT AND, 90CRI ,
E3LCWW1GPH TRIM
Light Source: -
Ballast/Driver: -

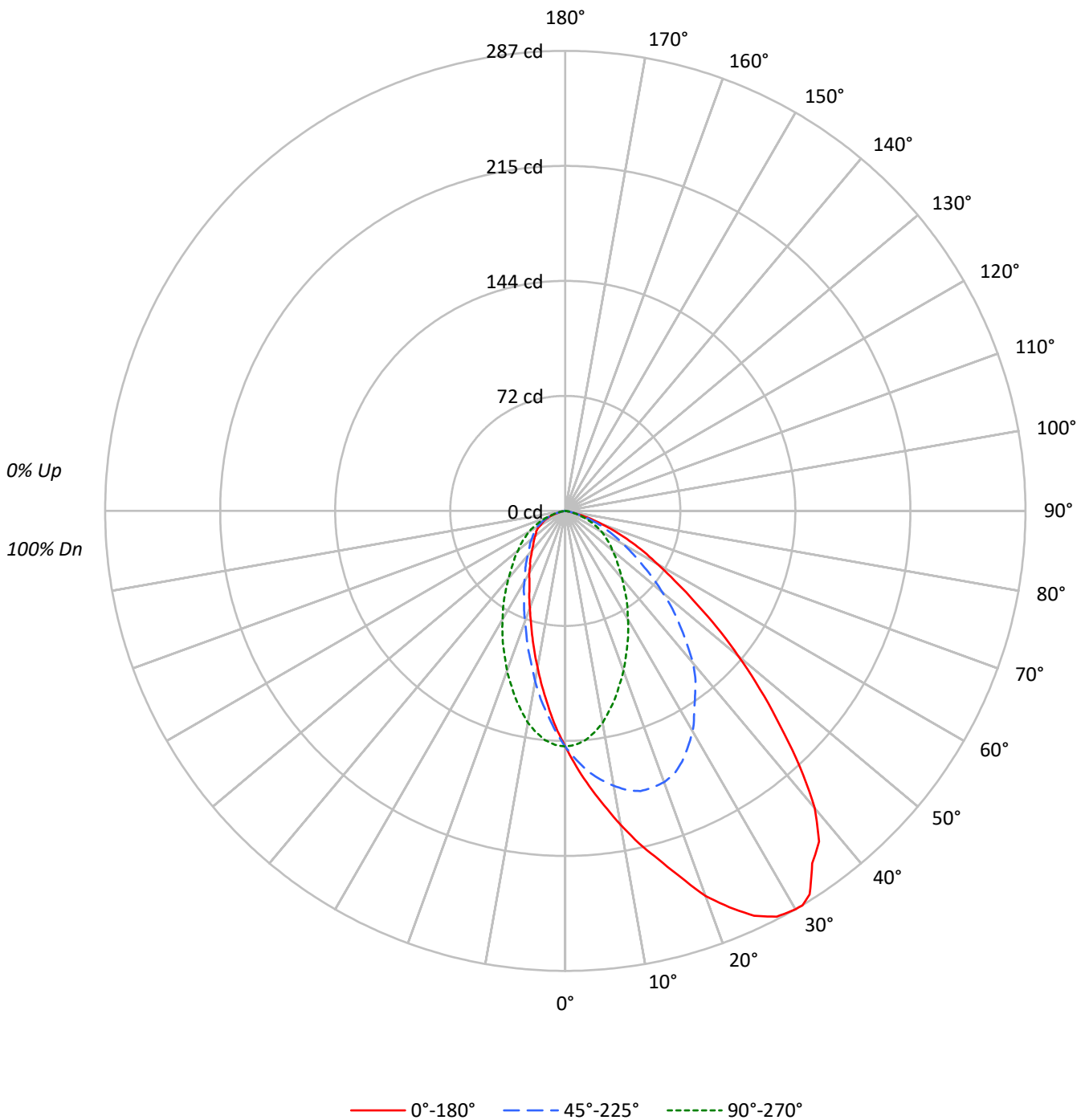
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 298.9 lumens
Efficiency: N/A
Efficacy: 33.2 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	100	100	100	100	
1	111	107	103	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88	88	88	88	
2	102	95	90	85	100	93	88	84	90	86	82	87	83	80	84	81	78	76	76	76	76	
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66	66	66	66	
4	87	77	69	63	85	75	68	62	73	67	62	71	65	61	69	64	60	58	58	58	58	
5	81	69	61	55	79	68	61	55	66	59	54	64	58	54	62	57	53	51	51	51	51	
6	75	63	55	49	73	62	54	49	60	53	48	59	53	48	57	52	48	46	46	46	46	
7	70	57	49	44	68	57	49	44	55	48	43	54	48	43	52	47	43	41	41	41	41	
8	65	53	45	39	64	52	45	39	51	44	39	50	43	39	48	43	39	37	37	37	37	
9	61	49	41	36	60	48	41	36	47	40	36	46	40	35	45	39	35	34	34	34	34	
10	57	45	38	33	56	45	37	33	44	37	33	43	37	32	42	36	32	31	31	31	31	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	32234	32234	32234	32234	32234
5°	37970	35901	31609	28043	26920
10°	44265	38788	29881	24025	22133
15°	51101	41090	27378	20250	18139
20°	59669	42027	24782	17058	15075
25°	67431	41736	22211	14590	12751
30°	72695	40234	19801	12913	11394
35°	71875	37745	17748	11591	10226
40°	69301	35495	15801	10448	9246
45°	58735	31352	14234	9737	8683
50°	48101	26950	13032	9279	8392
55°	37351	22403	12348	9099	8449
60°	29077	18639	11534	8947	7806
65°	22934	15410	10118	8354	7472
70°	15772	11412	8142	7052	6540
75°	7879	6439	5761	4999	4321
80°	1010	2147	3157	2147	1010
85°	0	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 58735 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.7	4.6
10°-20°	38.3	12.8
20°-30°	56.4	18.9
30°-40°	63.3	21.2
40°-50°	55.6	18.6
50°-60°	39.8	13.3
60°-70°	23.6	7.9
70°-80°	7.9	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°	108.5	36.3
0°-40°	171.7	57.4
0°-60°	267.1	89.4
0°-90°	298.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	298.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	147	147	147	147	147	
5°	172	163	144	127	122	17
15°	225	181	121	89	80	65
25°	279	172	92	60	53	128
35°	268	141	66	43	38	169
45°	189	101	46	31	28	147
55°	98	59	32	24	22	89
65°	44	30	20	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°	147.0	147.0	147.0	147.0	147.0	147.0	147.0	147.0	147.0	147.0	147.0
2.5°	159.7	159.7	159.7	158.0	158.0	155.5	153.8	151.2	149.5	147.0	146.1
5°	172.5	172.5	170.8	169.1	166.5	163.1	158.9	154.6	149.5	145.3	143.6
7.5°	185.2	186.1	183.5	180.1	175.0	169.1	163.1	156.3	148.7	142.7	139.3
10°	198.8	198.8	195.4	190.3	182.7	174.2	164.8	155.5	146.1	137.6	134.2
12.5°	212.4	211.5	207.3	199.6	190.3	178.4	165.7	153.8	142.7	132.5	127.4
15°	225.1	225.1	219.2	209.8	196.2	181.0	165.7	150.4	137.6	125.7	120.6
17.5°	239.6	239.6	231.9	217.5	200.5	181.0	163.1	146.1	131.7	118.9	113.0
20°	255.7	254.9	243.8	224.3	202.2	180.1	159.7	141.0	124.9	111.3	106.2
22.5°	267.6	266.8	254.0	230.2	203.0	177.6	153.8	134.2	118.1	104.5	98.5
25°	278.7	277.0	262.5	232.8	201.3	172.5	147.8	126.6	111.3	97.7	91.8
27.5°	285.4	284.6	268.5	231.9	197.1	165.7	140.2	119.8	103.6	90.1	85.0
30°	287.1	288.0	268.5	227.7	190.3	158.9	132.5	112.1	96.0	84.1	78.2
31°	287.1	288.0	266.8	225.1	187.7	155.5	129.1	109.6	92.6	80.7	75.6
32.5°	283.7	282.0	264.2	220.9	181.8	149.5	124.9	105.3	88.4	76.5	72.2
35°	268.5	269.3	255.7	211.5	173.3	141.0	116.4	96.8	80.7	70.5	66.3
37.5°	260.0	260.0	235.3	198.8	164.0	133.4	106.2	87.5	73.9	64.6	60.3
40°	242.1	239.6	216.6	185.2	152.9	124.0	100.2	81.6	68.0	58.6	55.2
42.5°	216.6	214.1	196.2	173.3	138.5	112.1	95.1	72.2	61.2	53.5	50.1
45°	189.4	187.7	174.2	152.9	124.9	101.1	82.4	66.3	56.1	48.4	45.9
47.5°	164.8	162.3	152.1	135.9	113.0	90.9	71.4	59.5	50.1	44.2	42.5
50°	141.0	140.2	131.7	118.9	100.2	79.0	62.9	52.7	45.9	40.8	38.2
52.5°	118.9	117.2	113.0	102.8	87.5	68.8	55.2	46.7	40.8	37.4	35.7
55°	97.7	97.7	93.4	86.7	74.8	58.6	48.4	41.6	36.5	34.0	32.3
57.5°	80.7	80.7	77.3	73.1	62.0	50.1	42.5	36.5	33.1	30.6	28.9
60°	66.3	66.3	63.7	59.5	51.8	42.5	36.5	32.3	29.7	27.2	26.3
62.5°	55.2	54.4	52.7	48.4	42.5	35.7	31.4	28.0	25.5	23.8	22.9
65°	44.2	43.3	41.6	38.2	34.0	29.7	26.3	23.8	22.1	20.4	19.5
67.5°	34.0	34.0	32.3	29.7	26.3	23.8	21.2	19.5	17.8	17.0	16.1
70°	24.6	24.6	23.8	22.1	19.5	17.8	16.1	15.3	14.4	13.6	12.7
72.5°	17.0	17.0	16.1	15.3	13.6	12.7	11.0	11.0	10.2	10.2	9.3
75°	9.3	9.3	9.3	8.5	8.5	7.6	7.6	7.6	6.8	6.8	6.8
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°	147.0	147.0	147.0	147.0	147.0	147.0	147.0	147.0	147.0	147.0
2.5°	145.3	142.7	141.0	140.2	137.6	136.8	135.9	135.1	135.1	135.1
5°	141.9	137.6	133.4	130.8	127.4	125.7	124.0	123.2	122.3	122.3
7.5°	135.9	130.8	125.7	121.5	118.1	114.7	113.0	111.3	111.3	110.4
10°	130.0	123.2	117.2	111.3	107.9	103.6	101.9	100.2	99.4	99.4
12.5°	123.2	114.7	107.9	102.8	97.7	94.3	91.8	90.1	89.2	89.2
15°	115.5	107.0	99.4	94.3	89.2	85.0	82.4	80.7	79.9	79.9
17.5°	107.9	99.4	90.9	85.8	80.7	76.5	74.8	73.1	72.2	71.4
20°	101.1	90.9	84.1	77.3	73.1	69.7	67.1	65.4	64.6	64.6
22.5°	93.4	84.1	76.5	71.4	67.1	63.7	60.3	59.5	58.6	58.6
25°	85.8	77.3	70.5	65.4	60.3	57.8	55.2	53.5	53.5	52.7
27.5°	79.9	71.4	64.6	59.5	56.1	52.7	51.0	49.3	48.4	48.4
30°	73.1	65.4	59.5	55.2	51.0	48.4	46.7	45.0	45.0	45.0
31°	71.4	63.7	57.8	52.7	49.3	46.7	45.0	44.2	43.3	43.3
32.5°	67.1	60.3	54.4	50.1	46.7	44.2	42.5	41.6	41.6	40.8
35°	62.0	55.2	50.1	45.9	43.3	40.8	39.1	38.2	38.2	38.2
37.5°	56.9	51.0	45.9	42.5	39.9	37.4	36.5	34.8	34.8	34.8
40°	51.8	46.7	42.5	39.1	36.5	34.8	34.0	33.1	32.3	32.3
42.5°	47.6	42.5	39.1	36.5	34.0	32.3	31.4	30.6	30.6	29.7
45°	43.3	39.1	36.5	34.0	31.4	30.6	29.7	28.9	28.0	28.0
47.5°	39.9	36.5	33.1	31.4	29.7	28.0	27.2	27.2	26.3	26.3
50°	36.5	33.1	30.6	28.9	27.2	26.3	25.5	25.5	24.6	24.6
52.5°	34.0	30.6	28.9	27.2	25.5	24.6	23.8	23.8	22.9	22.9
55°	30.6	28.0	26.3	25.5	23.8	22.9	22.1	21.2	21.2	22.1
57.5°	28.0	26.3	24.6	23.8	22.1	21.2	20.4	20.4	19.5	20.4
60°	25.5	23.8	22.1	21.2	20.4	19.5	18.7	17.8	17.8	17.8
62.5°	22.9	21.2	20.4	18.7	17.8	17.8	17.0	17.0	17.0	16.1
65°	19.5	18.7	17.8	17.0	16.1	15.3	15.3	14.4	14.4	14.4
67.5°	16.1	15.3	14.4	14.4	13.6	12.7	12.7	12.7	12.7	11.9
70°	12.7	11.9	11.9	11.0	11.0	11.0	10.2	10.2	10.2	10.2
72.5°	9.3	9.3	8.5	8.5	8.5	8.5	7.6	7.6	7.6	7.6
75°	6.8	6.8	6.8	5.9	5.9	5.9	5.1	5.1	5.1	5.1
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)