

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 E3LCWW1WMH_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: P3ART13R70W2N902765DE010 E3LCWW1WMH_3000K
Description: 3in Adjustable Tunable White LED luminaire with, R70 optic, 3000K CCT AND, 90CRI ,
E3LCWW1WMH TRIM
Light Source: -
Ballast/Driver: -

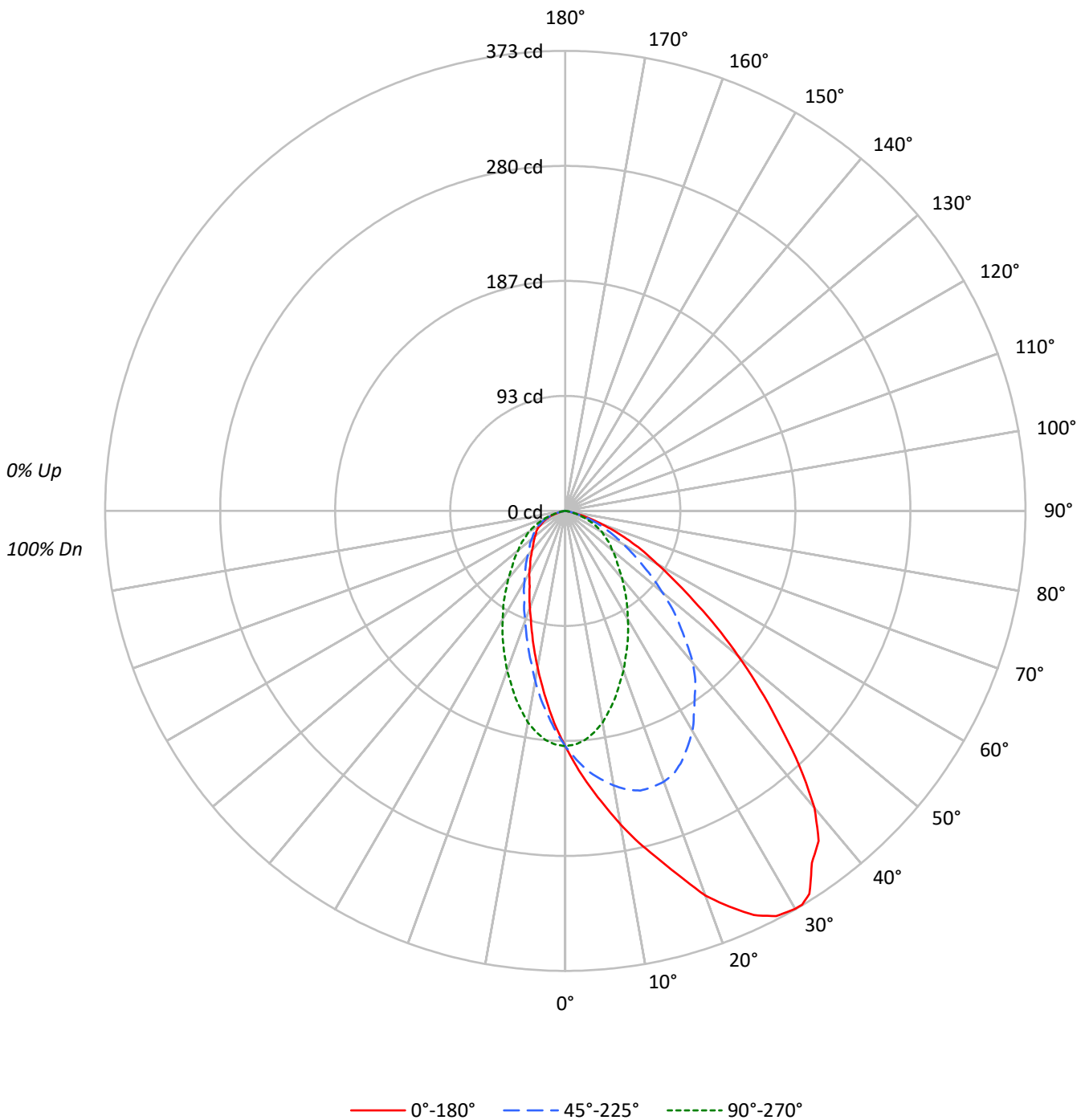
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 388.0 lumens
Efficiency: N/A
Efficacy: 31.5 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	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	47	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°	41817	41817	41817	41817	41817
5°	49262	46599	41008	36408	34933
10°	57447	50322	38788	31173	28724
15°	66311	53303	35528	26288	23519
20°	77427	54535	32156	22122	19555
25°	87489	54148	28816	18945	16525
30°	94344	52211	25675	16737	14787
35°	93264	48988	23022	15044	13278
40°	89940	46086	20524	13568	11994
45°	76225	40686	18452	12652	11288
50°	62429	34967	16921	12042	10916
55°	48476	29093	16019	11813	10972
60°	37716	24165	14999	11622	10175
65°	29731	20028	13179	10844	9703
70°	20516	14874	10579	9168	8463
75°	10252	8388	7456	6524	5592
80°	1389	2778	4167	2778	1389
85°	0	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 76225 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	17.8	4.6
10°-20°	49.7	12.8
20°-30°	73.2	18.9
30°-40°	82.1	21.2
40°-50°	72.2	18.6
50°-60°	51.7	13.3
60°-70°	30.6	7.9
70°-80°	10.2	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°	140.8	36.3
0°-40°	222.8	57.4
0°-60°	346.7	89.4
0°-90°	388.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	388.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	191	191	191	191	191	
5°	224	212	186	165	159	22
15°	292	235	156	116	104	84
25°	362	224	119	78	68	166
35°	348	183	86	56	50	219
45°	246	131	60	41	36	190
55°	127	76	42	31	29	116
65°	57	39	25	21	19	57
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°	190.7	190.7	190.7	190.7	190.7	190.7	190.7	190.7	190.7	190.7	190.7
2.5°	207.3	207.3	207.3	205.0	205.0	201.7	199.5	196.2	194.0	190.7	189.6
5°	223.8	223.8	221.6	219.4	216.1	211.7	206.2	200.6	194.0	188.5	186.3
7.5°	240.3	241.4	238.1	233.7	227.1	219.4	211.7	202.8	192.9	185.2	180.8
10°	258.0	258.0	253.6	246.9	237.0	226.0	213.9	201.7	189.6	178.6	174.2
12.5°	275.6	274.5	269.0	259.1	246.9	231.5	215.0	199.5	185.2	172.0	165.4
15°	292.1	292.1	284.4	272.3	254.7	234.8	215.0	195.1	178.6	163.2	156.5
17.5°	310.9	310.9	301.0	282.2	260.2	234.8	211.7	189.6	170.9	154.3	146.6
20°	331.8	330.7	316.4	291.0	262.4	233.7	207.3	183.0	162.1	144.4	137.8
22.5°	347.3	346.2	329.6	298.8	263.5	230.4	199.5	174.2	153.2	135.6	127.9
25°	361.6	359.4	340.6	302.1	261.3	223.8	191.8	164.3	144.4	126.8	119.1
27.5°	370.4	369.3	348.4	301.0	255.8	215.0	181.9	155.4	134.5	116.9	110.2
30°	372.6	373.7	348.4	295.4	246.9	206.2	172.0	145.5	124.6	109.1	101.4
31°	372.6	373.7	346.2	292.1	243.6	201.7	167.6	142.2	120.2	104.7	98.1
32.5°	368.2	366.0	342.9	286.6	235.9	194.0	162.1	136.7	114.7	99.2	93.7
35°	348.4	349.5	331.8	274.5	224.9	183.0	151.0	125.7	104.7	91.5	86.0
37.5°	337.3	337.3	305.4	258.0	212.8	173.1	137.8	113.5	95.9	83.8	78.3
40°	314.2	310.9	281.1	240.3	198.4	161.0	130.1	105.8	88.2	76.1	71.7
42.5°	281.1	277.8	254.7	224.9	179.7	145.5	123.5	93.7	79.4	69.5	65.0
45°	245.8	243.6	226.0	198.4	162.1	131.2	106.9	86.0	72.8	62.8	59.5
47.5°	213.9	210.6	197.3	176.4	146.6	118.0	92.6	77.2	65.0	57.3	55.1
50°	183.0	181.9	170.9	154.3	130.1	102.5	81.6	68.3	59.5	52.9	49.6
52.5°	154.3	152.1	146.6	133.4	113.5	89.3	71.7	60.6	52.9	48.5	46.3
55°	126.8	126.8	121.3	112.4	97.0	76.1	62.8	54.0	47.4	44.1	41.9
57.5°	104.7	104.7	100.3	94.8	80.5	65.0	55.1	47.4	43.0	39.7	37.5
60°	86.0	86.0	82.7	77.2	67.2	55.1	47.4	41.9	38.6	35.3	34.2
62.5°	71.7	70.6	68.3	62.8	55.1	46.3	40.8	36.4	33.1	30.9	29.8
65°	57.3	56.2	54.0	49.6	44.1	38.6	34.2	30.9	28.7	26.5	25.4
67.5°	44.1	44.1	41.9	38.6	34.2	30.9	27.6	25.4	23.2	22.0	20.9
70°	32.0	32.0	30.9	28.7	25.4	23.2	20.9	19.8	18.7	17.6	16.5
72.5°	22.0	22.0	20.9	19.8	17.6	16.5	14.3	14.3	13.2	13.2	12.1
75°	12.1	12.1	12.1	11.0	11.0	9.9	9.9	9.9	8.8	8.8	8.8
77.5°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
80°	1.1	1.1	1.1	1.1	2.2	2.2	2.2	2.2	3.3	3.3	3.3
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°	190.7	190.7	190.7	190.7	190.7	190.7	190.7	190.7	190.7	190.7
2.5°	188.5	185.2	183.0	181.9	178.6	177.5	176.4	175.3	175.3	175.3
5°	184.1	178.6	173.1	169.8	165.4	163.2	161.0	159.9	158.7	158.7
7.5°	176.4	169.8	163.2	157.6	153.2	148.8	146.6	144.4	144.4	143.3
10°	168.7	159.9	152.1	144.4	140.0	134.5	132.3	130.1	129.0	129.0
12.5°	159.9	148.8	140.0	133.4	126.8	122.4	119.1	116.9	115.8	115.8
15°	149.9	138.9	129.0	122.4	115.8	110.2	106.9	104.7	103.6	103.6
17.5°	140.0	129.0	118.0	111.3	104.7	99.2	97.0	94.8	93.7	92.6
20°	131.2	118.0	109.1	100.3	94.8	90.4	87.1	84.9	83.8	83.8
22.5°	121.3	109.1	99.2	92.6	87.1	82.7	78.3	77.2	76.1	76.1
25°	111.3	100.3	91.5	84.9	78.3	75.0	71.7	69.5	69.5	68.3
27.5°	103.6	92.6	83.8	77.2	72.8	68.3	66.1	63.9	62.8	62.8
30°	94.8	84.9	77.2	71.7	66.1	62.8	60.6	58.4	58.4	58.4
31°	92.6	82.7	75.0	68.3	63.9	60.6	58.4	57.3	56.2	56.2
32.5°	87.1	78.3	70.6	65.0	60.6	57.3	55.1	54.0	54.0	52.9
35°	80.5	71.7	65.0	59.5	56.2	52.9	50.7	49.6	49.6	49.6
37.5°	73.9	66.1	59.5	55.1	51.8	48.5	47.4	45.2	45.2	45.2
40°	67.2	60.6	55.1	50.7	47.4	45.2	44.1	43.0	41.9	41.9
42.5°	61.7	55.1	50.7	47.4	44.1	41.9	40.8	39.7	39.7	38.6
45°	56.2	50.7	47.4	44.1	40.8	39.7	38.6	37.5	36.4	36.4
47.5°	51.8	47.4	43.0	40.8	38.6	36.4	35.3	35.3	34.2	34.2
50°	47.4	43.0	39.7	37.5	35.3	34.2	33.1	33.1	32.0	32.0
52.5°	44.1	39.7	37.5	35.3	33.1	32.0	30.9	30.9	29.8	29.8
55°	39.7	36.4	34.2	33.1	30.9	29.8	28.7	27.6	27.6	28.7
57.5°	36.4	34.2	32.0	30.9	28.7	27.6	26.5	26.5	25.4	26.5
60°	33.1	30.9	28.7	27.6	26.5	25.4	24.3	23.2	23.2	23.2
62.5°	29.8	27.6	26.5	24.3	23.2	23.2	22.0	22.0	22.0	20.9
65°	25.4	24.3	23.2	22.0	20.9	19.8	19.8	18.7	18.7	18.7
67.5°	20.9	19.8	18.7	18.7	17.6	16.5	16.5	16.5	16.5	15.4
70°	16.5	15.4	15.4	14.3	14.3	14.3	13.2	13.2	13.2	13.2
72.5°	12.1	12.1	11.0	11.0	11.0	11.0	9.9	9.9	9.9	9.9
75°	8.8	8.8	8.8	7.7	7.7	7.7	6.6	6.6	6.6	6.6
77.5°	5.5	5.5	5.5	5.5	5.5	4.4	4.4	4.4	4.4	4.4
80°	3.3	3.3	3.3	3.3	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)