

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: P3ART17R70W2N902750DE010 E3LSWW1WMH_2700K

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 (G1-2509-551-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/8/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3ART17R70W2N902750DE010 E3LSWW1WMH_2700K
Description: 3in Adjustable Tunable White LED luminaire with, R70 optic, 2700K CCT AND, 90CRI ,
E3LSWW1WMH TRIM
Light Source: -
Ballast/Driver: -

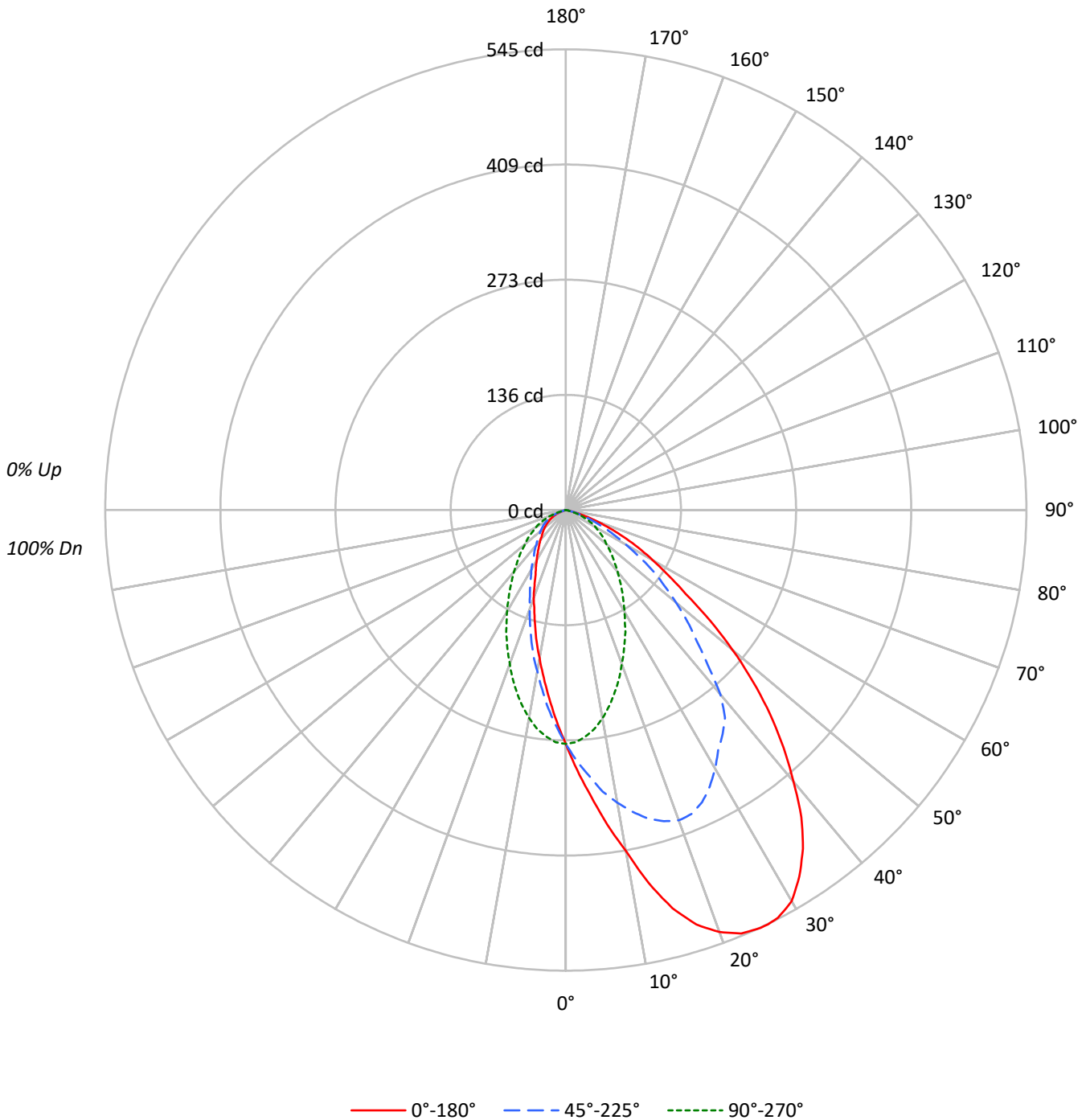
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 551.0 lumens
Efficiency: N/A
Efficacy: 28.4 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.85 / 1.23
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 19.4
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	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	91	91	91	89
2	103	96	91	86	101	95	89	85	91	87	83	88	85	81	85	82	80	80	80	80	78
3	95	87	80	74	93	85	79	74	82	77	72	80	75	71	77	73	70	70	70	70	68
4	88	78	70	65	86	77	70	64	74	68	63	72	67	63	70	66	62	62	62	62	60
5	82	71	63	57	80	70	62	57	68	61	56	66	60	56	64	59	55	55	55	55	53
6	76	64	56	51	74	63	56	51	62	55	50	60	54	50	59	53	49	49	49	49	47
7	71	59	51	45	69	58	51	45	57	50	45	55	49	45	54	49	44	44	44	44	43
8	66	54	46	41	65	53	46	41	52	46	41	51	45	41	50	44	40	40	40	40	39
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	37	37	37	35
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	34	34	34	32

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	60653	60653	60653	60653	60653
5°	74642	69491	59168	51948	49196
10°	91158	78288	55666	43152	39679
15°	110693	85857	50738	35823	31941
20°	123981	91171	45224	29169	25902
25°	131959	92255	40091	24195	20421
30°	135337	89431	35221	20585	17420
35°	130955	86598	30945	17561	15071
40°	119882	81410	27280	15658	13425
45°	106120	67852	24220	14544	12125
50°	87980	58096	21321	13339	11189
55°	66330	48400	19727	12540	10169
60°	52101	36313	17806	11666	8903
65°	38915	26773	15410	9755	7316
70°	25068	17054	11028	6988	4039
75°	10590	9235	5338	2626	1356
80°	2020	2020	0	0	0
85°	0	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 106120 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.2	4.8
10°-20°	75.5	13.7
20°-30°	110.4	20.0
30°-40°	120.3	21.8
40°-50°	104.1	18.9
50°-60°	69.7	12.7
60°-70°	36.0	6.5
70°-80°	8.5	1.5
80°-90°	0.1	0.0
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°	212.2	38.5
0°-40°	332.5	60.3
0°-60°	506.4	91.9
0°-90°	551.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	551.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	277	277	277	277	277	
5°	339	316	269	236	224	35
15°	488	378	224	158	141	138
25°	545	381	166	100	84	251
35°	489	324	116	66	56	303
45°	342	219	78	47	39	262
55°	174	127	52	33	27	161
65°	75	52	30	19	14	76
75°	12	11	6	3	2	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°	276.6	276.6	276.6	276.6	276.6	276.6	276.6	276.6	276.6	276.6	276.6
2.5°	307.9	306.3	306.3	303.2	300.1	296.9	292.2	287.6	282.9	278.2	275.0
5°	339.1	340.7	339.1	332.9	325.1	315.7	306.3	295.4	284.4	275.0	268.8
7.5°	375.1	375.1	370.4	362.6	351.6	336.0	320.4	301.6	284.4	268.8	261.0
10°	409.4	409.4	401.6	389.1	371.9	351.6	329.7	304.7	281.3	259.4	250.0
12.5°	451.6	450.1	440.7	420.4	395.4	365.7	336.0	304.7	276.6	250.0	237.5
15°	487.6	486.0	473.5	448.5	415.7	378.2	337.6	301.6	267.2	237.5	223.5
17.5°	514.2	511.0	497.0	470.4	432.9	386.0	339.1	295.4	256.3	223.5	209.4
20°	531.3	529.8	514.2	482.9	442.3	390.7	337.6	287.6	245.4	209.4	193.8
22.5°	542.3	539.2	523.5	489.2	442.3	389.1	331.3	276.6	231.3	195.3	179.7
25°	545.4	543.8	525.1	487.6	437.6	381.3	321.9	265.7	217.2	181.3	165.7
26°	545.4	543.8	525.1	486.0	434.5	376.6	317.2	261.0	212.5	175.0	161.0
27.5°	543.8	542.3	522.0	481.3	428.2	368.8	307.9	251.6	203.2	167.2	151.6
30°	534.5	531.3	511.0	470.4	414.1	353.2	292.2	237.5	189.1	153.2	139.1
32.5°	514.2	511.0	489.2	451.6	398.5	336.0	275.0	221.9	175.0	139.1	126.6
35°	489.2	486.0	464.1	428.2	376.6	323.5	256.3	204.7	159.4	128.1	115.6
37.5°	457.9	453.2	434.5	396.9	350.1	309.4	240.7	187.5	145.3	115.6	104.7
40°	418.8	417.3	400.1	365.7	318.8	284.4	231.3	187.5	132.8	104.7	95.3
42.5°	381.3	378.2	362.6	332.9	290.7	248.5	203.2	179.7	123.5	93.8	86.0
45°	342.2	339.1	325.1	300.1	261.0	218.8	181.8	154.7	106.3	86.0	78.1
47.5°	300.1	296.9	286.0	267.2	232.9	195.3	159.4	126.6	96.9	76.6	70.3
50°	257.9	259.4	250.0	231.3	204.7	170.3	137.5	106.3	82.8	68.8	62.5
52.5°	215.7	214.1	207.8	195.3	176.6	146.9	117.2	90.6	71.9	60.9	57.8
55°	173.5	175.0	171.9	164.1	148.5	126.6	98.5	78.1	64.1	54.7	51.6
57.5°	143.8	145.3	139.1	134.4	121.9	103.1	81.3	65.6	54.7	48.4	45.3
60°	118.8	120.3	115.6	109.4	100.0	82.8	65.6	54.7	48.4	43.8	40.6
62.5°	96.9	95.3	92.2	86.0	78.1	65.6	53.1	45.3	40.6	37.5	35.9
65°	75.0	75.0	71.9	67.2	60.9	51.6	42.2	37.5	34.4	31.3	29.7
67.5°	56.3	56.3	53.1	50.0	43.8	37.5	32.8	29.7	28.1	25.0	23.4
70°	39.1	39.1	37.5	35.9	31.3	26.6	25.0	21.9	20.3	18.8	17.2
72.5°	25.0	25.0	25.0	21.9	20.3	17.2	17.2	15.6	14.1	12.5	12.5
75°	12.5	14.1	12.5	12.5	10.9	10.9	9.4	9.4	7.8	7.8	6.3
77.5°	4.7	4.7	4.7	4.7	4.7	4.7	3.1	3.1	3.1	3.1	3.1
80°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	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°	276.6	276.6	276.6	276.6	276.6	276.6	276.6	276.6	276.6	276.6
2.5°	271.9	267.2	264.1	259.4	256.3	253.2	251.6	250.0	250.0	250.0
5°	264.1	256.3	248.5	240.7	236.0	231.3	226.6	225.0	223.5	223.5
7.5°	254.7	242.2	231.3	221.9	214.1	209.4	204.7	201.6	200.0	200.0
10°	242.2	226.6	214.1	201.6	193.8	187.5	184.4	179.7	179.7	178.2
12.5°	228.2	209.4	195.3	184.4	176.6	168.8	164.1	161.0	159.4	159.4
15°	212.5	193.8	178.2	165.7	157.8	150.0	145.3	142.2	140.7	140.7
17.5°	196.9	176.6	161.0	148.5	140.7	132.8	128.1	125.0	125.0	123.5
20°	181.3	161.0	145.3	132.8	125.0	118.8	114.1	111.0	109.4	111.0
22.5°	167.2	146.9	131.3	120.3	111.0	104.7	100.0	98.5	96.9	96.9
25°	151.6	132.8	118.8	107.8	100.0	93.8	89.1	87.5	86.0	84.4
26°	146.9	128.1	114.1	103.1	95.3	89.1	86.0	82.8	81.3	81.3
27.5°	140.7	120.3	107.8	96.9	89.1	84.4	79.7	78.1	76.6	76.6
30°	126.6	109.4	96.9	87.5	81.3	75.0	71.9	70.3	68.8	68.8
32.5°	115.6	98.5	87.5	79.7	73.5	68.8	65.6	62.5	62.5	62.5
35°	104.7	89.1	79.7	71.9	65.6	60.9	59.4	57.8	56.3	56.3
37.5°	95.3	81.3	71.9	65.6	60.9	56.3	53.1	51.6	51.6	51.6
40°	86.0	75.0	65.6	59.4	54.7	51.6	48.4	46.9	46.9	46.9
42.5°	78.1	67.2	60.9	54.7	50.0	46.9	45.3	43.8	42.2	42.2
45°	71.9	62.5	54.7	50.0	46.9	43.8	40.6	39.1	39.1	39.1
47.5°	64.1	57.8	50.0	45.3	42.2	39.1	37.5	35.9	35.9	35.9
50°	59.4	53.1	46.9	42.2	39.1	35.9	34.4	32.8	32.8	32.8
52.5°	53.1	48.4	43.8	39.1	35.9	32.8	31.3	29.7	29.7	29.7
55°	48.4	43.8	39.1	35.9	32.8	29.7	28.1	26.6	26.6	26.6
57.5°	43.8	39.1	35.9	32.8	29.7	28.1	25.0	25.0	23.4	23.4
60°	39.1	34.4	31.3	29.7	26.6	25.0	21.9	20.3	20.3	20.3
62.5°	32.8	31.3	28.1	25.0	21.9	20.3	18.8	17.2	17.2	17.2
65°	28.1	26.6	23.4	20.3	18.8	17.2	15.6	14.1	14.1	14.1
67.5°	23.4	20.3	18.8	17.2	15.6	14.1	12.5	10.9	9.4	10.9
70°	17.2	15.6	14.1	12.5	10.9	9.4	7.8	7.8	6.3	6.3
72.5°	10.9	9.4	9.4	7.8	6.3	6.3	4.7	4.7	3.1	3.1
75°	6.3	6.3	4.7	4.7	3.1	3.1	1.6	1.6	1.6	1.6
77.5°	3.1	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	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)