

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 E3CLSWW1MMS_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: P3ART13R70W2N902765DE010 E3CLSWW1MMS_2700K
Description: 3in Adjustable Tunable White LED luminaire with, R70 optic, 2700K CCT AND, 90CRI ,
E3CLSWW1MMS TRIM
Light Source: -
Ballast/Driver: -

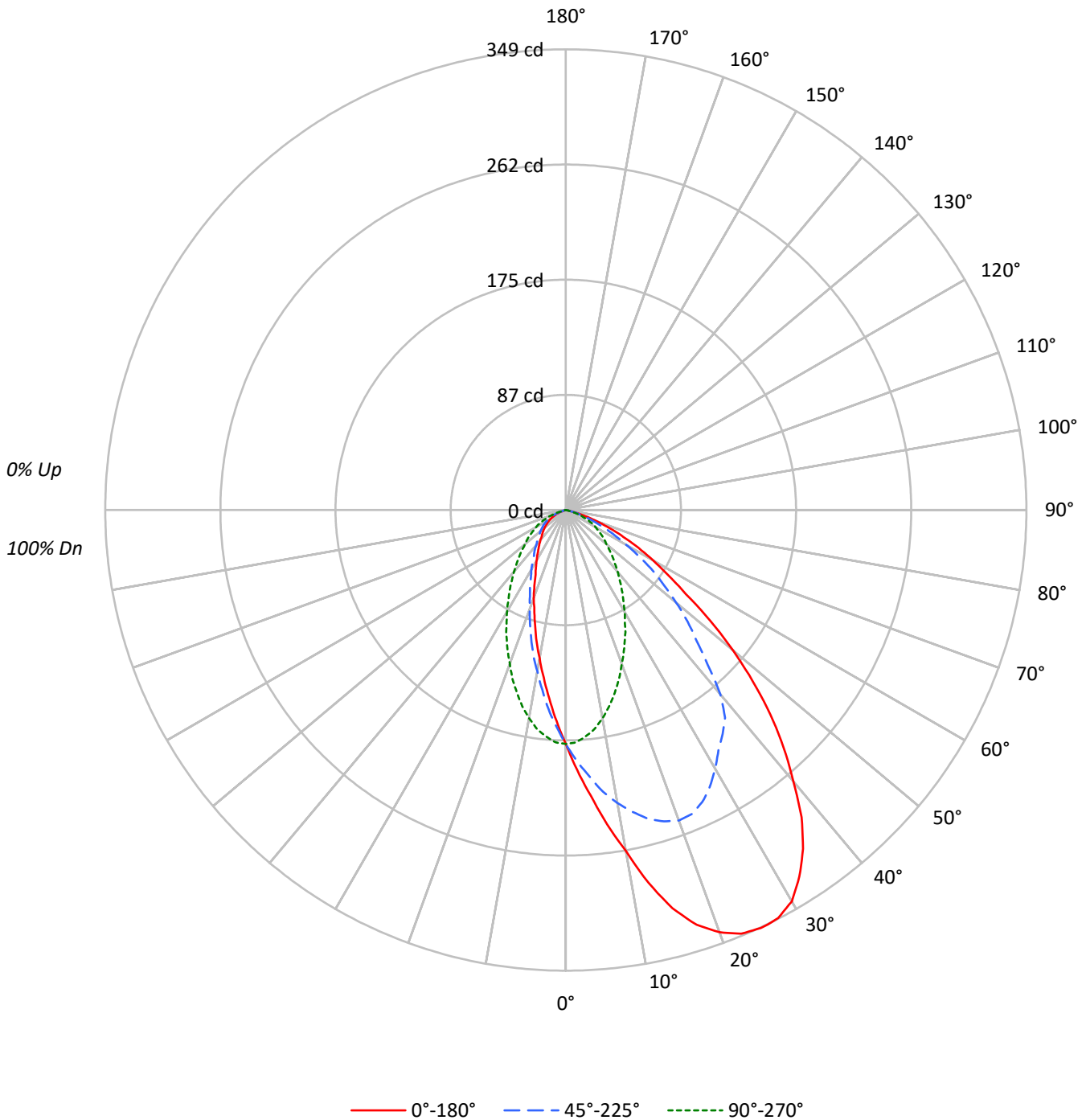
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 353.0 lumens
Efficiency: N/A
Efficacy: 28.7 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): 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	100	100	100
1	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89	89	89
2	103	96	91	86	101	95	90	85	91	87	83	88	85	81	85	82	80	78	78	78
3	95	87	80	74	93	85	79	74	82	77	72	80	75	71	77	73	70	68	68	68
4	88	78	70	65	86	77	70	64	74	68	63	72	67	63	70	66	62	60	60	60
5	82	71	63	57	80	70	62	57	68	61	56	66	60	56	64	59	55	53	53	53
6	76	64	56	51	74	63	56	51	62	55	50	60	54	50	59	53	49	47	47	47
7	71	59	51	45	69	58	51	45	57	50	45	55	49	45	54	49	44	43	43	43
8	66	54	46	41	65	53	46	41	52	46	41	51	45	41	50	44	40	39	39	39
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35	35	35
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32	32	32

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	38857	38857	38857	38857	38857
5°	47832	44508	37904	33282	31521
10°	58405	50166	35671	27633	25406
15°	70920	55006	32509	22951	20454
20°	79434	58408	28959	18692	16591
25°	84537	59108	25671	15509	13089
30°	86697	57300	22560	13192	11166
35°	83895	55466	19836	11270	9637
40°	76801	52155	17490	10019	8588
45°	68007	43477	15536	9303	7753
50°	56356	37218	13646	8529	7164
55°	42474	31005	12616	8028	6499
60°	33375	23288	11403	7456	5701
65°	24957	17122	9858	6226	4670
70°	16028	10899	7052	4488	2565
75°	6778	5931	3389	1694	847
80°	1263	1263	0	0	0
85°	0	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 68007 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16.8	4.8
10°-20°	48.4	13.7
20°-30°	70.7	20.0
30°-40°	77.1	21.8
40°-50°	66.7	18.9
50°-60°	44.7	12.7
60°-70°	23.1	6.5
70°-80°	5.5	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°	135.9	38.5
0°-40°	213.0	60.4
0°-60°	324.4	91.9
0°-90°	353.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	353.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	177	177	177	177	177	
5°	217	202	172	151	143	22
15°	312	242	143	101	90	88
25°	349	244	106	64	54	161
35°	313	207	74	42	36	194
45°	219	140	50	30	25	168
55°	111	81	33	21	17	103
65°	48	33	19	12	9	48
75°	8	7	4	2	1	10
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°	177.2	177.2	177.2	177.2	177.2	177.2	177.2	177.2	177.2	177.2	177.2
2.5°	197.2	196.2	196.2	194.2	192.2	190.2	187.2	184.2	181.2	178.2	176.2
5°	217.3	218.3	217.3	213.3	208.2	202.2	196.2	189.2	182.2	176.2	172.2
7.5°	240.3	240.3	237.3	232.3	225.3	215.3	205.2	193.2	182.2	172.2	167.2
10°	262.3	262.3	257.3	249.3	238.3	225.3	211.3	195.2	180.2	166.2	160.2
12.5°	289.3	288.3	282.3	269.3	253.3	234.3	215.3	195.2	177.2	160.2	152.2
15°	312.4	311.4	303.4	287.3	266.3	242.3	216.3	193.2	171.2	152.2	143.2
17.5°	329.4	327.4	318.4	301.4	277.3	247.3	217.3	189.2	164.2	143.2	134.2
20°	340.4	339.4	329.4	309.4	283.3	250.3	216.3	184.2	157.2	134.2	124.1
22.5°	347.4	345.4	335.4	313.4	283.3	249.3	212.3	177.2	148.2	125.2	115.1
25°	349.4	348.4	336.4	312.4	280.3	244.3	206.2	170.2	139.2	116.1	106.1
26°	349.4	348.4	336.4	311.4	278.3	241.3	203.2	167.2	136.2	112.1	103.1
27.5°	348.4	347.4	334.4	308.4	274.3	236.3	197.2	161.2	130.2	107.1	97.1
30°	342.4	340.4	327.4	301.4	265.3	226.3	187.2	152.2	121.1	98.1	89.1
32.5°	329.4	327.4	313.4	289.3	255.3	215.3	176.2	142.2	112.1	89.1	81.1
35°	313.4	311.4	297.4	274.3	241.3	207.2	164.2	131.2	102.1	82.1	74.1
37.5°	293.4	290.3	278.3	254.3	224.3	198.2	154.2	120.1	93.1	74.1	67.1
40°	268.3	267.3	256.3	234.3	204.2	182.2	148.2	120.1	85.1	67.1	61.1
42.5°	244.3	242.3	232.3	213.3	186.2	159.2	130.2	115.1	79.1	60.1	55.1
45°	219.3	217.3	208.2	192.2	167.2	140.2	115.1	99.1	68.1	55.1	50.1
47.5°	192.2	190.2	183.2	171.2	149.2	125.2	102.1	81.1	62.1	49.1	45.1
50°	165.2	166.2	160.2	148.2	131.2	109.1	88.1	68.1	53.1	44.1	40.0
52.5°	138.2	137.2	133.2	125.2	113.1	94.1	75.1	58.1	46.1	39.0	37.0
55°	111.1	112.1	110.1	105.1	95.1	81.1	63.1	50.1	41.0	35.0	33.0
57.5°	92.1	93.1	89.1	86.1	78.1	66.1	52.1	42.1	35.0	31.0	29.0
60°	76.1	77.1	74.1	70.1	64.1	53.1	42.1	35.0	31.0	28.0	26.0
62.5°	62.1	61.1	59.1	55.1	50.1	42.1	34.0	29.0	26.0	24.0	23.0
65°	48.1	48.1	46.1	43.1	39.0	33.0	27.0	24.0	22.0	20.0	19.0
67.5°	36.0	36.0	34.0	32.0	28.0	24.0	21.0	19.0	18.0	16.0	15.0
70°	25.0	25.0	24.0	23.0	20.0	17.0	16.0	14.0	13.0	12.0	11.0
72.5°	16.0	16.0	16.0	14.0	13.0	11.0	11.0	10.0	9.0	8.0	8.0
75°	8.0	9.0	8.0	8.0	7.0	7.0	6.0	6.0	5.0	5.0	4.0
77.5°	3.0	3.0	3.0	3.0	3.0	3.0	2.0	2.0	2.0	2.0	2.0
80°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	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	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°	177.2	177.2	177.2	177.2	177.2	177.2	177.2	177.2	177.2	177.2
2.5°	174.2	171.2	169.2	166.2	164.2	162.2	161.2	160.2	160.2	160.2
5°	169.2	164.2	159.2	154.2	151.2	148.2	145.2	144.2	143.2	143.2
7.5°	163.2	155.2	148.2	142.2	137.2	134.2	131.2	129.2	128.2	128.2
10°	155.2	145.2	137.2	129.2	124.1	120.1	118.1	115.1	115.1	114.1
12.5°	146.2	134.2	125.2	118.1	113.1	108.1	105.1	103.1	102.1	102.1
15°	136.2	124.1	114.1	106.1	101.1	96.1	93.1	91.1	90.1	90.1
17.5°	126.2	113.1	103.1	95.1	90.1	85.1	82.1	80.1	80.1	79.1
20°	116.1	103.1	93.1	85.1	80.1	76.1	73.1	71.1	70.1	71.1
22.5°	107.1	94.1	84.1	77.1	71.1	67.1	64.1	63.1	62.1	62.1
25°	97.1	85.1	76.1	69.1	64.1	60.1	57.1	56.1	55.1	54.1
26°	94.1	82.1	73.1	66.1	61.1	57.1	55.1	53.1	52.1	52.1
27.5°	90.1	77.1	69.1	62.1	57.1	54.1	51.1	50.1	49.1	49.1
30°	81.1	70.1	62.1	56.1	52.1	48.1	46.1	45.1	44.1	44.1
32.5°	74.1	63.1	56.1	51.1	47.1	44.1	42.1	40.0	40.0	40.0
35°	67.1	57.1	51.1	46.1	42.1	39.0	38.0	37.0	36.0	36.0
37.5°	61.1	52.1	46.1	42.1	39.0	36.0	34.0	33.0	33.0	33.0
40°	55.1	48.1	42.1	38.0	35.0	33.0	31.0	30.0	30.0	30.0
42.5°	50.1	43.1	39.0	35.0	32.0	30.0	29.0	28.0	27.0	27.0
45°	46.1	40.0	35.0	32.0	30.0	28.0	26.0	25.0	25.0	25.0
47.5°	41.0	37.0	32.0	29.0	27.0	25.0	24.0	23.0	23.0	23.0
50°	38.0	34.0	30.0	27.0	25.0	23.0	22.0	21.0	21.0	21.0
52.5°	34.0	31.0	28.0	25.0	23.0	21.0	20.0	19.0	19.0	19.0
55°	31.0	28.0	25.0	23.0	21.0	19.0	18.0	17.0	17.0	17.0
57.5°	28.0	25.0	23.0	21.0	19.0	18.0	16.0	16.0	15.0	15.0
60°	25.0	22.0	20.0	19.0	17.0	16.0	14.0	13.0	13.0	13.0
62.5°	21.0	20.0	18.0	16.0	14.0	13.0	12.0	11.0	11.0	11.0
65°	18.0	17.0	15.0	13.0	12.0	11.0	10.0	9.0	9.0	9.0
67.5°	15.0	13.0	12.0	11.0	10.0	9.0	8.0	7.0	6.0	7.0
70°	11.0	10.0	9.0	8.0	7.0	6.0	5.0	5.0	4.0	4.0
72.5°	7.0	6.0	6.0	5.0	4.0	4.0	3.0	3.0	2.0	2.0
75°	4.0	4.0	3.0	3.0	2.0	2.0	1.0	1.0	1.0	1.0
77.5°	2.0	1.0	1.0	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)