

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: P3ART13R70W2N902750DE010 E3LCWW1WMH\_5000K

Issue Date: 5/8/2026

**Test Information**

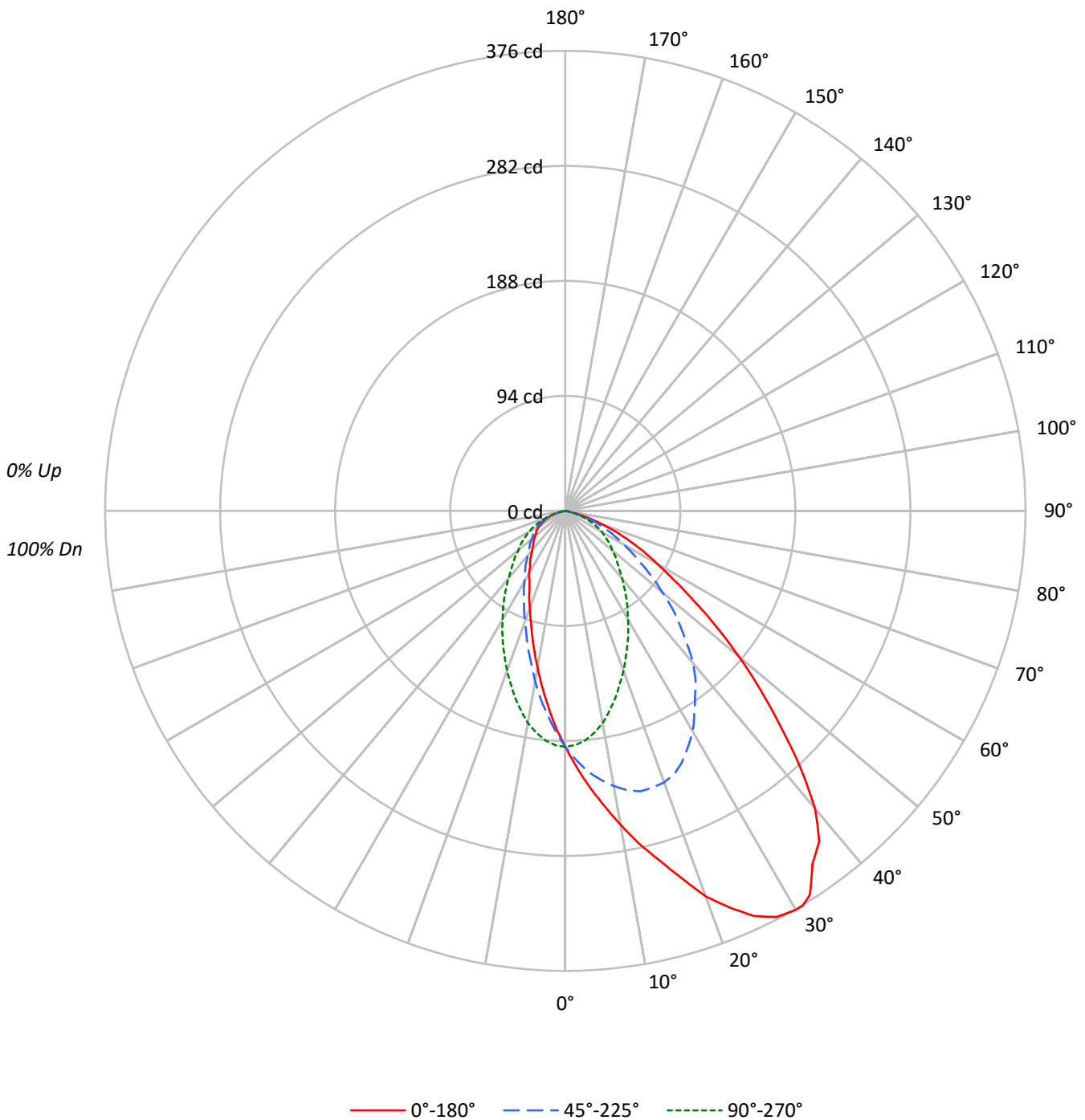
Test Method: LM-79-2019  
Report Number: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2509-551-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/8/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3ART13R70W2N902750DE010 E3LCWW1WMH\_5000K  
Description: 3in Adjustable Tunable White LED luminaire with, R70 optic, 5000K CCT AND, 90CRI ,  
E3LCWW1WMH TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 392.0 lumens  
Efficiency: N/A  
Efficacy: 31.9 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): 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
1	111	107	103	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88		88
2	102	95	90	85	100	93	88	84	90	86	82	87	83	80	84	81	78	76		76
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66		66
4	87	77	69	63	85	75	68	62	73	67	62	71	65	61	69	64	60	58		58
5	81	69	61	55	79	68	61	55	66	59	54	64	58	54	62	57	53	51		51
6	75	63	55	49	73	62	54	49	60	53	48	59	53	48	57	52	47	46		46
7	70	57	49	44	68	57	49	44	55	48	43	54	48	43	52	47	43	41		41
8	65	53	45	39	64	52	45	39	51	44	39	50	43	39	48	43	39	37		37
9	61	49	41	36	60	48	41	36	47	40	36	46	40	35	45	39	35	34		34
10	57	45	38	33	56	45	37	33	44	37	33	43	37	32	42	36	32	31		31

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°	135°	180°
0°	42255	42255	42255	42255	42255
5°	49769	47061	41426	36782	35307
10°	58026	50834	39189	31507	29013
15°	67015	53848	35914	26538	23769
20°	78220	55095	32483	22355	19742
25°	88384	54705	29107	19138	16719
30°	95331	52742	25953	16914	14939
35°	94228	49496	23262	15205	13411
40°	90856	46544	20725	13711	12108
45°	77031	41090	18638	12777	11412
50°	63077	35342	17091	12145	11019
55°	48973	29399	16171	11928	11087
60°	38111	24428	15130	11710	10262
65°	30042	20236	13283	11000	9806
70°	20709	15003	10707	9296	8591
75°	10421	8472	7540	6608	5676
80°	1389	2778	4167	2778	1389
85°	0	0	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 77031 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	18.0	4.6
10°-20°	50.2	12.8
20°-30°	74.0	18.9
30°-40°	82.9	21.2
40°-50°	72.9	18.6
50°-60°	52.2	13.3
60°-70°	30.9	7.9
70°-80°	10.4	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°	142.2	36.3
0°-40°	225.1	57.4
0°-60°	350.2	89.3
0°-90°	392.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	392.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	193	193	193	193	193	
5°	226	214	188	167	160	23
15°	295	237	158	117	105	85
25°	365	226	120	79	69	168
35°	352	185	87	57	50	221
45°	248	132	60	41	37	192
55°	128	77	42	31	29	117
65°	58	39	26	21	19	58
75°	12	10	9	8	7	15
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°	192.7	192.7	192.7	192.7	192.7	192.7	192.7	192.7	192.7	192.7	192.7
2.5°	209.4	209.4	209.4	207.2	207.2	203.8	201.6	198.3	196.0	192.7	191.6
5°	226.1	226.1	223.9	221.6	218.3	213.8	208.3	202.7	196.0	190.5	188.2
7.5°	242.8	243.9	240.6	236.1	229.4	221.6	213.8	204.9	194.9	187.1	182.7
10°	260.6	260.6	256.2	249.5	239.5	228.3	216.1	203.8	191.6	180.4	176.0
12.5°	278.4	277.3	271.8	261.7	249.5	233.9	217.2	201.6	187.1	173.8	167.1
15°	295.2	295.2	287.4	275.1	257.3	237.2	217.2	197.1	180.4	164.8	158.2
17.5°	314.1	314.1	304.1	285.1	262.9	237.2	213.8	191.6	172.6	155.9	148.1
20°	335.2	334.1	319.7	294.0	265.1	236.1	209.4	184.9	163.7	145.9	139.2
22.5°	350.8	349.7	333.0	301.8	266.2	232.8	201.6	176.0	154.8	137.0	129.2
25°	365.3	363.1	344.2	305.2	264.0	226.1	193.8	166.0	145.9	128.1	120.3
27.5°	374.2	373.1	352.0	304.1	258.4	217.2	183.8	157.0	135.9	118.1	111.4
30°	376.5	377.6	352.0	298.5	249.5	208.3	173.8	147.0	125.9	110.3	102.5
31°	376.5	377.6	349.7	295.2	246.1	203.8	169.3	143.7	121.4	105.8	99.1
32.5°	372.0	369.8	346.4	289.6	238.3	196.0	163.7	138.1	115.8	100.2	94.7
35°	352.0	353.1	335.2	277.3	227.2	184.9	152.6	127.0	105.8	92.4	86.9
37.5°	340.8	340.8	308.5	260.6	215.0	174.9	139.2	114.7	96.9	84.6	79.1
40°	317.4	314.1	284.0	242.8	200.5	162.6	131.4	106.9	89.1	76.9	72.4
42.5°	284.0	280.7	257.3	227.2	181.5	147.0	124.7	94.7	80.2	70.2	65.7
45°	248.4	246.1	228.3	200.5	163.7	132.5	108.0	86.9	73.5	63.5	60.1
47.5°	216.1	212.7	199.4	178.2	148.1	119.2	93.6	78.0	65.7	57.9	55.7
50°	184.9	183.8	172.6	155.9	131.4	103.6	82.4	69.1	60.1	53.5	50.1
52.5°	155.9	153.7	148.1	134.8	114.7	90.2	72.4	61.3	53.5	49.0	46.8
55°	128.1	128.1	122.5	113.6	98.0	76.9	63.5	54.6	47.9	44.6	42.3
57.5°	105.8	105.8	101.4	95.8	81.3	65.7	55.7	47.9	43.4	40.1	37.9
60°	86.9	86.9	83.5	78.0	67.9	55.7	47.9	42.3	39.0	35.6	34.5
62.5°	72.4	71.3	69.1	63.5	55.7	46.8	41.2	36.8	33.4	31.2	30.1
65°	57.9	56.8	54.6	50.1	44.6	39.0	34.5	31.2	29.0	26.7	25.6
67.5°	44.6	44.6	42.3	39.0	34.5	31.2	27.8	25.6	23.4	22.3	21.2
70°	32.3	32.3	31.2	29.0	25.6	23.4	21.2	20.0	18.9	17.8	16.7
72.5°	22.3	22.3	21.2	20.0	17.8	16.7	14.5	14.5	13.4	13.4	12.3
75°	12.3	12.3	12.3	11.1	11.1	10.0	10.0	10.0	8.9	8.9	8.9
77.5°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
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°	192.7	192.7	192.7	192.7	192.7	192.7	192.7	192.7	192.7	192.7
2.5°	190.5	187.1	184.9	183.8	180.4	179.3	178.2	177.1	177.1	177.1
5°	186.0	180.4	174.9	171.5	167.1	164.8	162.6	161.5	160.4	160.4
7.5°	178.2	171.5	164.8	159.3	154.8	150.4	148.1	145.9	145.9	144.8
10°	170.4	161.5	153.7	145.9	141.5	135.9	133.7	131.4	130.3	130.3
12.5°	161.5	150.4	141.5	134.8	128.1	123.6	120.3	118.1	116.9	116.9
15°	151.5	140.3	130.3	123.6	116.9	111.4	108.0	105.8	104.7	104.7
17.5°	141.5	130.3	119.2	112.5	105.8	100.2	98.0	95.8	94.7	93.6
20°	132.5	119.2	110.3	101.4	95.8	91.3	88.0	85.8	84.6	84.6
22.5°	122.5	110.3	100.2	93.6	88.0	83.5	79.1	78.0	76.9	76.9
25°	112.5	101.4	92.4	85.8	79.1	75.7	72.4	70.2	70.2	69.1
27.5°	104.7	93.6	84.6	78.0	73.5	69.1	66.8	64.6	63.5	63.5
30°	95.8	85.8	78.0	72.4	66.8	63.5	61.3	59.0	59.0	59.0
31°	93.6	83.5	75.7	69.1	64.6	61.3	59.0	57.9	56.8	56.8
32.5°	88.0	79.1	71.3	65.7	61.3	57.9	55.7	54.6	54.6	53.5
35°	81.3	72.4	65.7	60.1	56.8	53.5	51.2	50.1	50.1	50.1
37.5°	74.6	66.8	60.1	55.7	52.3	49.0	47.9	45.7	45.7	45.7
40°	67.9	61.3	55.7	51.2	47.9	45.7	44.6	43.4	42.3	42.3
42.5°	62.4	55.7	51.2	47.9	44.6	42.3	41.2	40.1	40.1	39.0
45°	56.8	51.2	47.9	44.6	41.2	40.1	39.0	37.9	36.8	36.8
47.5°	52.3	47.9	43.4	41.2	39.0	36.8	35.6	35.6	34.5	34.5
50°	47.9	43.4	40.1	37.9	35.6	34.5	33.4	33.4	32.3	32.3
52.5°	44.6	40.1	37.9	35.6	33.4	32.3	31.2	31.2	30.1	30.1
55°	40.1	36.8	34.5	33.4	31.2	30.1	29.0	27.8	27.8	29.0
57.5°	36.8	34.5	32.3	31.2	29.0	27.8	26.7	26.7	25.6	26.7
60°	33.4	31.2	29.0	27.8	26.7	25.6	24.5	23.4	23.4	23.4
62.5°	30.1	27.8	26.7	24.5	23.4	23.4	22.3	22.3	22.3	21.2
65°	25.6	24.5	23.4	22.3	21.2	20.0	20.0	18.9	18.9	18.9
67.5°	21.2	20.0	18.9	18.9	17.8	16.7	16.7	16.7	16.7	15.6
70°	16.7	15.6	15.6	14.5	14.5	14.5	13.4	13.4	13.4	13.4
72.5°	12.3	12.3	11.1	11.1	11.1	11.1	10.0	10.0	10.0	10.0
75°	8.9	8.9	8.9	7.8	7.8	7.8	6.7	6.7	6.7	6.7
77.5°	5.6	5.6	5.6	5.6	5.6	4.5	4.5	4.5	4.5	4.5
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)